AIN CHEMPAKA CLOSET (ACC) MANAGEMENT SYSTEM



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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AIN CHEMPAKA CLOSET (ACC) MANAGEMENT SYSTEM



This report is submitted in partial fulfillment of the requirements for the Bachelor of Computer Science (Database Management)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY UNIVERSITI TEKNIKAL MALAYSIA MELAKA

DECLARATION

I hereby declare that this project report entitled AIN CHEMPAKA CLOSET (ACC) MANAGEMENT SYSTEM is written by me and is my own effort and that no part has been plagiarized without citations. Date: 26/8/2016

(NUR FARAHIN BINTI MOHD YUSAK)

I hereby declare that I have read this project report and found this project report is sufficient in term of the scope and quality for the award of Bachelor of Computer Science (Database Management) With Honours.

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26.8.2016 Date:

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DEDICATION

This thesis dedicated to Allah who grant me with ideas when I need it the most.

To my beloved parents and siblings for continuous support in completing the project.

Also to my supervisor for her inspiration and motivation.



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Firstly, thank you Allah, for helping me to complete the project. With continuous ideas and spirit and without feel helpless.

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Also to my fellow friends for assisting me and others. May Allah bless all of you in return. May happiness and success be with us. Thank you.

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undo.

ABSTRACT

Ain Chempaka Closet (ACC) Management System developed specially for Ain Chempaka Closet. Ain Chempaka Closet is a company registered under Company Commission of Malaysia (SSM) that use Instagram and as their marketing platform. This project is a web-based application. This project divided into two modules which are customer and staff. In customer module, customer allowed to view the product and make purchasing. For staff module, it is more to customer and staff management. Staff manage the information of customer, staff and product including the purchasing. Staff have wide access into the system. Staff have ability to update and delete the information in the system.

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ABSTRAK

Ain Chempaka Closet (ACC) *Management System* dibangunkan khas untuk Ain Chempaka Closet. Ain Chempaka Closet adalah syarikat yang berdaftar di bawah Suruhanjaya Syarikat Malaysia (SSM) yang menggunakan *Instagram* dan sebagai platform pemasaran mereka. Projek ini adalah aplikasi berasaskan web. Projek ini dibahagikan kepada dua modul pelanggan dan kakitangan. Dalam modul pelanggan, pelanggan dibenarkan untuk lihat produk dan membuat pembelian. Untuk modul kakitangan, ia adalah lebih kepada pelanggan dan pengurusan kakitangan. Kakitangan menguruskan maklumat pelanggan, kakitangan dan produk termasuk pembelian. Kakitangan mempunyai akses luas ke dalam sistem. Kakitangan mempunyai keupayaan untuk mengemaskini dan memadam maklumat dalam sistem.

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LIST OF ABBREVIATIONS

ACC	-	Ain Chempaka Closet		
DBLC	-	Database Life Cycle		
DBMS	-	Database Management System		
ERD	-	Entity Relationship Diagram		
DDL	-	Data Definition Language		
PHP	MALAYS	Hypertext Preprocessor		
HTTP	-	HyperText Transfer Protocol		
SWOT		Strength, weaknesses, opportunity, threats.		
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CHAPTER I

INTRODUCTION

1.1 Project Background

Ain Chempaka Closet Management System or ACC is a web-based system which provides online shopping concept for the customer. This management system will be special develop for Ain Chempaka Closet. Ain Chempaka Closet is an online shop registered under Companies Commissions of Malaysia (SSM) that currently using Instagram as their marketing platform. Ain Chempaka Closet selling cloth and accessories such as a shirt, shawl, kurung, and Casio watch. Nowadays, people tend to shop online.

Customers can avoid a traffic jam, having a foot sore by walking through each shop, or having possibilities being a snatch victim by bringing a lot of money together. ACC providing a website, where customers can purchase online and pay at the door. They can sell it from home. ACC will make both customer and staff deal much easier and save more time.

1.2 Problem Statement

- i. Difficulties in storing and collecting information as information need to be managed manually.
- ii. Admin or staff cannot trace the number of purchasing and customer.
- iii. No systematic data storage on purchasing record made by customer causing difficulties in generating and retrieving a report on sales and purchasing.

1.3 Objective

i.

- To replace manual management to computerized data management by providing an online website for Ain Chempaka Closet.
- ii. To enable admin or staff to trace the number of purchasing and customer.
- iii. To provide the shopping cart in for purchasing items in order to generate a valid report.

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1.4 Scope

- i. Management Advertisement of the product by staff. Help staff to view sale and order through ACC Management System.
- ii. Customer service Provide online services, customer purchase online and help the customer on the shopping cart.
- iii. Target user People who love to shop and age between 12 to55 years old. Founder of clothes and scarf brand.

1.5 Project Significance

ACC Management System is proposed especially for Ain Chempaka Closet. This system will benefit the staff and their customer. The staff can manage the sale or order, advertise the product for their customer. For their customer, they can place an order without having to directly go to the store and can automatically count or total up their overall cart.

1.6 Expected Output

- i. An online web-based system for staff and customer usage.
- ii. Report generating on total sale or total customer expenses on the website.
- iii. Shopping cart function where it can automatically total up the customer purchases.

1.7 Conclusion

Internet shopping has turned into another brand for them who adore shopping. Given a web shopping, administrations like ACC Management System without a doubt will expand the client and deal. Next, to create ACC, the technique must be perceived and anticipating the timetable to ensure the task done within14 weeks.

CHAPTER II

PROJECT METHODOLOGY AND PLANNING

2.1 Introduction

LAYS/

Techniques are utilized in the midst of build up this framework is essential to indicate the season of the framework to be conveyed on the stage. This framework was worked by use RAPID strategy since it is more adaptable than waterfall. Fast helps associations accomplish their objectives as it is all the more productively, and all the more successfully. Fast is not a specialized apparatus. It is a basic approach to analyzing and endorse how to decide. It doesn't advise how to impart those choices once they are made or which colleagues ought to be in charge of that correspondence. When RAPID is being utilized, stride back and audit the entirety.

2.2 Project Methodology

The database development methodology based on Database Life Cycle (DBLC) approach is:

i. RAPID Methodology

RAPID is an agile model for implementing software products. The benefits of RAPID are immense. RAPID that is designed to provide on-time, in scope and high-quality implementation. In RAPID, there is a few level of development before the system builds such as discovery, requirement, analysis & design, evaluation and project wrap-up.



Figure 2.1: RAPID Methodology

- 1. Discovery
 - Determine the purpose of developing the system.
 - Based on what exactly need to be achieved.
- 2. Requirements
 - Collecting requirement needed for ACC Management System.
 - Planning the scope and time to complete the project.
 - Recognized the suitable software and DBMS to be used.
- 3. Analysis and design
 - Design the entity-relational diagram based on the system.
 - Define the data need to be used.
- 4. Plan, Construct, Transition, and Review
 - Construct as the raw view of the flow of the system and the interface that going to be developed.
 - Start implement the ERD on the system.
 - Testing the system.
 - Review the lack and weakness.

5. Maintenance JNIVERSITI TEKNIKAL MALAYSIA MELAKA

- Monitor the good condition of the system.
- Keep track for the error may happen.
- 6. Project Wrap-up
 - Documentation of the project.
 - Identify improvement that can be made in the future. (If any)

2.3 **Project Schedule and Milestones**

Milestones	Expected Documents	Date
Completing Analysis Phase	1. Flow chart of the	2/3/2016
	system.	
	2. The requirement for the	
	system.	
	3. Entity Relational	
	Diagram.	
Completing Development	1. SQL Statement on	1/4/2016
	creates database, trigger,	
	and others related.	
AVE	2. The interface of the	
AT MANAGE	system.	
Completing Testing and	1. Test case document.	3/6/2016
Evaluation Phase	2. Documentation of the	
Els	system.	
A JINO	3. Project report.	
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Table 2.1: Project Schedule and Milestone

2.4 Conclusion

This chapter is explained about the project methodology that is used to define the planning of the project. This chapter is covered in the introduction of the chapter, main part of the system, project methodology, project requirement which is including the software requirement, project schedule, and milestone.

CHAPTER III



The analysis report is to explain the current system analysis with new system to be developed. Database analysis is an initial overview of the database will be developed. This analysis seeks to examine aspects related to the existing system and the system will be developed. The analysis will be carried out the existing system weaknesses and improve the quality of the system throughout the time. Analysis of this system will be divided into two stages which are the analysis of the existing system and new systems to be developed. This analysis can be described using Context Diagram and Data Flow Diagram. The analysis phase is the process to identify the needs or the system either in terms of users, organizations or standards set.



Figure 3.1: Current Method Flow



3.3 The Proposed Improvement

Figure 3.2: The Proposed Improvement

3.4 Requirement Analysis of The System-To-Be

No.	Functional Requirement	Description
1	Registration	To access the system, it requires
		an Id and password. Id and
		password are provided to only
		registered customer and staff.
2	Record Information	All information insert by the user
		will be stored in the database and
		can be retrieved for use.
3	Calculate Purchasing	Every time customer purchase
		items, the system will calculate
4	WALATSIA MEL	the total price based on the
KIIIK		quantity and price.
4 -	Keep delivery and payment record	Every item that successfully
Fo		delivered to the customer and the
1	Palka	payment received will be
4	نكنيكا مليسياملا	recorded.
		1

Table 3.1: Functional Requirement

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Figure 3.3: Data Flow Diagram

No.	Non- Functional Requirements	Description
1	Security	Data insert by customer and staff is
		protected in the database. To access
		the information, it requires an Id and
		password. Id and password are
		provided to only registered customer
		and staff.
2	Availability	The website and system available

Table 3.2: Non-functional Requirement

		whenever	customer	and	staff
		requested.			
3	Portability	The system	n available	in	every
		operating s	ystem and b form require	brows d.	er. No
		Specific pla			

 Table 3.3: Software Requirement

Type of Software	Description		
Windows 10 Enterprise	As operating system.		
Adobe Dreamweaver CS5	As PHP Language platform.		
Oracle 11g Release 2	As DBMS.		
Wamp Server	As server to run the system.		
SQL Developer	To view the database structure clearly.		
Java Development Tool Kit	To allow SQL Developer working.		
Instant Client	To allow connection in SQL		
	Developer.		
Microsoft Office Visio 2007	For designing the conceptual model.		
Microsoft Project 2010	To developed on Gantt Charts and		
	scheduling.		
Microsoft Word 2013 EKNIKAL	Use for documentation.		

Table 3.4: Hardware Requirement

Type of Hardware	Description
Acer Aspire 5	Laptop.
Intel Celeron 1.5 GHz	Processor.
64-bit Operating System	Operating System type.
4.00 GB	RAM

3.5 Conclusion

The advancement of strategies of information investigation has comprehended the structure and significance of information in associations. Information investigation methods can be utilized as the initial step of assessing the complexities of this present reality into a model that can be hung on a PC and can be gotten to by numerous clients. From this examination, the conclusion had been made that the present framework can show signs of improvement change to accomplish a higher proficiency. The present structure can be refined by moving up to another framework with better execution and usefulness to counter the present structure's flaw.



CHAPTER IV



This design report purposed to explain the usage of the database design in implementing the system. In this report, will be explained on the architecture design of the developed system. Also, types of data needed in storing enough information on customer, staff, product and order place by the customer. It started by designing Entity Relationship Diagram (ERD) where the constraints and relationship cardinality is shown clearly. Other than that, selection of DBMS also decided. The flow of GUI navigation, input, and output whether it fulfill the functional and nonfunctional requirement.

The reasonable outline which is Entity Relationship Diagram (ERD) of the undertaking is shown to make the possibility of the framework to be turned out to be more justifiable. Other than that, the states of the framework are expressed unmistakably with the assistance of the Business Rule. The Data Dictionary of the Entity Relationship Diagram (ERD) is given in this report. Information Dictionary contains all the properties in elements with its configuration and sort and the essential key of the substance additionally expressed in the Data Dictionary as well. Data Definition Language (DDL) is created in light of the applied and consistent outline of the database.

4.2 System Architecture Design

This outline shows the system auxiliary building. It obliges upgraded adaptability, sensibility, and extraordinary resource use.



Figure 4.1: System Architecture Design

- i. Web server tier: gives HTTP tradition reinforce or handles web requests.
- ii. **Application server tier**: offers support to web organizations, business basis, etc.
- iii. **Database tier:** gives information stockpiling and recovery support.

4.3 Database Design

The connected database layout will depict rule data characters, qualities, associations, and a necessity of a space wander. The design of a database will be self-rule of database programming and physical purposes of interest. It overall made out of a graphical representation and likewise artistic delineations of standard data segments, associations, and requirements.

i. Conceptual Design

The Entity Relationship Diagram (ERD) is a model that shows the consistent relationship and joint effort among system component. This graph show gives a general point of view of the system and an outline in making the physical data structure.



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Business Rule

- i. A customer can make many order but one order can make by only one customer.
- ii. A customer is registered by a staff and a staff can register many customers.
- iii. A product can have many order but one order can only have one product.
- iv. In an invoice can have only one order and vice versa.
- v. A delivery can be made by a staff but a staff can do many deliveries.
- vi. Every delivery on one invoice can have only one payment and a payment is made by one delivery.

ii. Logical Design (Appendix 4.1)

Attribute	Data Type	Constraints	Table Name
Customer_id	VARCHAR2	РК	CUSTOMER
Customer_name	VARCHAR2	NULL	CUSTOMER
Customer_addre	VARCHAR2	NULL	CUSTOMER
SS			
Customer_gende	VARCHAR2	NULL	CUSTOMER
r			
Customer_email	VARCHAR2	NULL	CUSTOMER
Customer_phone	VARCHAR2	NULL	CUSTOMER
Customer_passw	VARCHAR2	NULL	CUSTOMER
ord	·		
staff_id	VARCHAR2	PK for table	CUSTOMER/STAFF
S'AINT		STAFF	
shlal	1.1C	FK for table	later 1
1		customer	
Staff_name	VARCHAR2	AL MALAYSIA I	JELAKA
Staff_address	VARCHAR2	NULL	STAFF
Staff_phone	VARCHAR2	NULL	STAFF
Staff_email	VARCHAR2	NULL	STAFF
Staff_position	VARCHAR2	NULL	STAFF
Staff_password	VARCHAR2	NULL	STAFF
Cart_id	VARCHAR2	РК	CART_ORDER
Customer_id	VARCHAR2	PK/FK	CART_ORDER
Product_id	VARCHAR2	PK/FK	CART_ORDER
Date_order	DATE	NULL	CART_ORDER
Product_id	VARCHAR2	РК	PRODUCT
Product_name	VARCHAR2	NULL	PRODUCT
Product_price	VARCHAR2	NULL	PRODUCT

Table 4.1: Logical Design

Product_descript	VARCHAR2	NULL	PRODUCT
ion			
Product_size	VARCHAR2	NULL	PRODUCT
Invoice_id	VARCHAR2	РК	INVOICE
Invoice_date	DATE	NULL	INVOICE
Customer_id	VARCHAR2	FK	INVOICE
Total_price	VARCHAR2	NULL	INVOICE
Product_id	VARCHAR2	FK	INVOICE
Delivery_id	VARCHAR2	PK for table	INVOICE/DELIVERY
		Delivery	
		FK for table	
		Invoice	
Delivery_status	VARCHAR2	NULL	DELIVERY
Payment_id	VARCHAR2	FK	DELIVERY
Staff_id	VARCHAR2	FK	DELIVERY
Payment_id	VARCHAR2	PK 🦱	PAYMENT
Payment_status	VARCHAR2	NULL	PAYMENT
Delivery_date	DATE	NULL	PAYMENT
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iii. Physical Design TEKNIKAL MALAYSIA MELAKA

1. Selection Of DBMS

- Oracle 11g being used as DBMS for this system. Oracle 11g is chosen because to implement the knowledge in using Oracle 11g in practical.

2. Usage of stored procedure, triggers and others.

- Most of the trigger is implement to create the auto generate ID.
- Some operation like inserting, update and delete are operate using stored procedure.
- Stored procedure also being used to view the information. (Appendix 4.2)

3. Security Mechanism

- ACC using password as the security mechanism. Staff can only login using ID given by the administrator.
- As for the customer, the registration made through staff and the staff will give the customer their login ID.
- If they did not register, they are unable to use the system.

4.4 Graphical User Interface (GUI) Design



Figure 4.3: Login GUI

 Canan Utaria JACC An An	P B 2 ≡ Closet
SELAMAT DATANG, C1057-AMALINA SY	AHIRAH

Figure 4.4: Main Page GUI



Figure 4.5: Registration GUI

- i. Customer and staff can login into the system using their ID.
- ii. After login, they were directed to separated interface and function.
- iii. The customer can view the product and purchase it. The information of the product included the price and description.
- iv. Others, they can also view the contact information and their information.
- v. For staff, they able to register new customer and product.
4.5 Conclusion

Design phase assists in developing the clear flow of the system. Fulfill its requirement and implementing database into the system. This part clarifies about the framework engineering plan furthermore database outline. In the database, plan stage has been clarified about the theoretical outline, sensible configuration, and physical outline. On the following section, will portray about the framework usage.



CHAPTER V

IMPLEMENTATION



This chapter explained each step of software installation. In involving installation on server and application side. There's also an explanation of the system and database environment setup like installation step and startup database services. Database and database objects creation also be explained. DDL/DCL statements in Oracle 11g also be presented. This chapter describes the implementation of the stored procedure and triggers using PHP Language in Adobe Dreamweaver CS3.

5.2 Software Development Environment Setup

In this section, it will describe both system and environment setup in the development of ACC system. Creation of database and database objects also will be explained. ACC Management System development involving 4-Tier System Architecture.



Software Development Setup

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In the development of the system, few needed of hardware and software must be fulfilled. First of all, laptop or personal computer is a must have the hardware to start installing the require software. This system using Oracle 11g Release 2 as the database and Wampserver as a server. In execution of user interface design, PHP programming language being used through Adobe Dreamweaver CS3. SQL Developer being installed to ease the database view. Without the installation of SQL Developer, the developer can use the command prompt.

a. Wamp Server

Step 1: Firstly, click on the download button to download exe file from WampServer at

https://sourceforge.net/projects/wampserver/?source=typ_redirect.



Figure 5.2: Source Forge Website



Figure 5.3: Security Warning

Step 2: Select language.



Figure 5.4: Select Language

Step 3: Agree on the agreement.



Figure 5.5: Agreement



	Setup - Wampserver32		×
			^
	Select Destination Location Where should Wampserver32 be installed?		Ð
	Setup will install Wampserver32 into the following folder.		
	To continue, click Next. If you would like to select a different folder, click Brow	se.	
	c: wamp Bro	wse	
	Atlant (072 AND of fear did ensuring in a side		
	Wampserver Install by Inno Setup		
	ALAYSIA Rack Nexts	Car	rel
	V DOLK IVEXT >	Cai	ICEI
	Figure 5.6: Set File Location	-	
	Figure 5.0. Set File Location		
		VI	
Ste	ep 5: Continue until the installation finished.	1	
St o	an (a Click on Wome somer icon and put online		
516	ep 6: Click on wamp server icon and put online.		
	ship la la : Si in		
	رسیبی میکسیسی سارد	<u>~9</u> 2	2
	18		
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Figure 5.9: Setup

Click Here on Setup Files to Start Installing Oracle on your system.

Step 2: Installing and Configuring Oracle.

1. Click on the setup icon to launch the installer. You should then see the following screen shot. Enter a *password* for the SYS and SYSTEM users (if you're coming to Oracle from a MySQL background they're like the root user in MySQL). When you've entered a matching password in both fields, the *Install* button becomes active. Click the *Install* button to proceed.

Once Setup Start.

You need to enter your email id. if you require updated from Oracle

In this screen, you're prompted for your *Email* and *MetaLink Password*. If this is a test database (a throwaway instance without any real data), you can uncheck the box for automatic security updates. You should enter a password even for test databases. Click the *Next* button to proceed.

MAINO
Cracle Universal Installer
ال المحمد المحمد ا
Provide your email address to be informed of security issues, install the product and LAKA initiate configuration manager. <u>View details</u> .
Email: Easier for you if you use your MetaLink Email address/Username.
✓ I wish to receive security updates via MetaLink.
MetaLink Password:
Help Installed Products Back Next Install Cancel

Figure 5.10: Installation

Select Configure and Database Option (First Option) Press Next Button.

Select Desktop class Option Press Next.

This Will be the next window appear on your screen

🎂 Oracle Database 11g Instal	lation - Select a Product to Install	
Select Installation	on Method	DATABASE 11 8
Basic Installation		
Perform full Oracle Data	pase 11g installation with standard configuration options	requiring minimal input.
I his option uses tile sys	tem for storage, and a single password for all database :	accounts.
<u>Oracle Base Location:</u>	C:\app\Saurabhx64	Browse)
Oracle Home Location:	C:\app\Saurabhx64\product\1.1.1.0\db_1	Browse
Installation Type:	Enterprise Edition (2.9GB)	-
🔽 Create Starter Databa	se (additional 1482MB)	1
<u>G</u> lobal Database Nan	ne: orcl	
Database Password:	Confirm Password:	
This pass	word is used for the SYS, SYSTEM, SYSMAN, and DBSNMP acc	counts.
Advanced Installation	on S	
Allows advanced selection	ons such as different pas <mark>swo</mark> rds for the SYS, SYSTEM, S	YSMAN, and DBSNMP
accounts, database char	racter set, product languages, automated backups, custo	m installation, and
alternative storage option	Is such as Automatic Storage Management.	
Help	Back Next	Install Cancel
ein		
	16 - Contraction	
Jon Cum	Figure 5.11: Installation Method	او دوم

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Oracle Universal Installer: Product-Specific Prerequisite Checks		
	C	ATABASE
Product-Specific Prerequisite Checks		
The Installer verifies that your environment meets all of the minimu configuring the products that you have chosen to install. You must are flagged with warnings and items that require manual checks. checks, click the item and review the details in the box at the botto	um requirements fo i manually verify and For details about p m of the window.	or installing and d confirm the items that erforming these
Check	Туре	Status
Checking operating system requirements	Automatic	Error
Checking service pack requirements	Automatic	Not executed
Checking physical memory requirements	Automatic	Succeeded
1 errors, 2 requirements to be verified.		Retry Stop
Checking operating system requirements Expected result: One of 5.0,5.1,5.2,6.0 Actual Result: 6.1		
Helph DAY Stainstalled Products Back	Next	Install Cancel
Figure 5.12: Instal	lation	

The checked boxes now say User Verified, Click the Next button to proceed.

	سیبی یہ	PRACLE A
	+ ¹⁰	ATABASE
roduct-Specific Prerequisite Che	cksAYSIA M	ELAKA
e Installer verifies that your environment meets all of the	e minimum requirements f	or installing and
infiguring the products that you have chosen to install. Y	ou must manually verify an checks. For details about r	d confirm the items ti performing these
ecks, click the item and review the details in the box at t	he bottom of the window.	chonning these
Check	Туре	Status
Checking operating system requirements	Automatic	🔽 User Verified 🛎
Checking service pack requirements	Automatic	🗹 User Verified
Checking physical memory requirements	Automatic	Succeeded
		Dotry Otr
		(Keily) Su
errors, 0 requirements to be verified.		
hecking service pack requirements heck complete. The overall result of this check is: Not e:	xecuted <<<<	
hecking service pack requirements heck complete. The overall result of this check is: Not e:	xecuted <<<<	

Figure 5.13: Installation

3. At this point, you'll get a *Windows System Alert* asking you to unblock the installer's javaw.exe program. You must grant the access or forget about installing Oracle 11g. Click the *Allow access* button to proceed.

Windows Securi	ity Alert	22
💮 Windo	ws Firewa	ll has blocked some features of this program
Windows Firewall ha all public and private	as blocked som e networks.	e features of Java(TM) 2 Platform Standard Edition binary on
	Name:	Java(TM) 2 Platform Standard Edition binary
	Publisher:	Sun Microsystems, Inc.
	Path:	C: \users \mdaughlin-7x64\appdata \ocal \temp \orainstall2009-11-27_01-10-18pm \jdk \jre \bin \javaw.exe
Allow Java(TM) 2 Pl	atform Standa	rd Edition binary to communicate on these networks:
V Private netw	orks, such as n	ny home or work network
Public networ because the What are the risks of	ks, such as the energy of allowing a pr	ose in airports and coffee shops (not recommended ten have little or no security) ogram through a firewall? Allow access Cancel
188 Allen	Figure	5.14: Firewall Permission
The dialog tells	you wha	t will be installed. Click the Install button to

 The dialog tells you what will be installed. Click the *Install* button to proceed.
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5. This is the installation progress dialog. It's running while the Oracle Installer lays down the operating system files for the database management system. It takes about 8 to 9 minutes, so stretch your legs if you want to take a break. When it's 100% complete, click the *Next* button to continue.

😽 Oracle Universal Installer: Install	
	ORACLE 18
	DATABASE
Install	
Installing Oracle Database 11g 11.1.0.7.0	
Installation in progress	Ideal Platform for
Setup pending	Grid Computing
Configuration pending	Low cost servers
Extracting files to 10 Jann)Mal evidelin. 7x8/Janadud/14.1.4.Julis. 41	and storage
8%	Highest availability
(Stop installation	Best scalability
	The Island
You can find the log of this install session at: C:Program FilesVoracleVoventoryVogsVinstallActions2009-11-27_01-10-18PM.log	
Pale Installed Products Pack Nort	
	Caliber

6. After the installation, you'll see the first of the *Configuration Assistants*, which is the *Oracle Net Configuration Assistant* (unfortunately, I didn't capture that screenshot but I provided a temporary substitute until I re-install it). Provided everything happens successfully, it'll move to the next step without your intervention.

Cracle Universal Installer: Configuration Assistants		
		ORACLE 118
		DATABASE
Configuration Assistants		
The following configuration assistants will configure and	d start the components y	ou selected earlier.
Tool Name	Status	Туре
Oracle Database 11g		
Oracle Net Configuration Assistant	Succeeded	Recommended
Oracle Database Configuration Assistant	In progress	Recommended
Oracle Configuration Manager Configuration	Pending	Recommended
		Retry Stop
Details (see full log at C:\Program Files\Oracle\Inventor	vlogs\installActions200	3-11-27_01-10-18PM.log):
Configuration assistant "Oracle Net Configuration Assis	stant" succeeded	
and AY Sig		
Output generated from configuration assistant "Oracle I	Database Configuration	Assistant":
Help Installed Products	Back Next	(Install) Cancel
E Contraction	T (1) (
Figure 5.17:	Installation	
Alter		

You should receive another *Windows Security Alert*. You need to click the *Allow access* button to let java.exe proceed with the installation.

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Prindows Securi	ity Alert	X
💮 Windo	ws Firewal	l has blocked some features of this program
Windows Firewall ha all public and private	as blocked some e networks.	e features of Java(TM) 2 Platform Standard Edition binary on
	Name: Publisher:	Sun Microsystems, Inc.
	Path:	C:\app\mclaughlin-7x64\product\11.1.0\db_1\jdk\jre\bin \java.exe
Allow Java(TM) 2 Pl	atform Standar	d Edition binary to communicate on these networks:
V Private netw	orks, such as m	y home or work network
Public networ because these	rks, such as the se networks oft	ose in airports and coffee shops (not recommended en have little or no security)
What are the risks of	of allowing a pr	ogram through a firewall?
		Allow access Cancel

Figure 5.18: Firewall Permission

7. This one is exactly where it belongs. It means you have approximately a 5 to 6 minute break while a sample database instance is cloned for you. The cloning process copies a sample compressed database from the installation staging area to your local operating system.

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 ${\mathcal A}^{(1)}$

Oracle Universal Installer: Configuration Assistants		
		ORACLE 118
		DATABASE
Configuration Assistants		
The following configuration assistants will configure and	d start the components y	ou selected earlier.
Tool Name	Status	Туре
Oracle Database 11g		
Coracle Net Configuration Assistant	Succeeded	Recommended
Oracle Database Configuration Assistant	In progress	Recommended
Oracle Configuration Manager Configuration	Pending	Recommended
Details (see full log at C:\Program Files\Oracle\Inventor	/logs\installActions2009	Retry Stop
Configuration assistant "Oracle Net Configuration Assis	stant" succeeded	
Output generated from configuration assistant "Oracle I	Database Configuration	Assistant":
Help Installed Products	Back Next	[nstall Cancel
Figure 5.19: In	nstallation	/

It will prompt you if you want to open any of the other schemes. You can skip this and do it later, or click *Password Management* to open those scheme and set passwords for them.

set passwords for them. TEKNIKAL MALAYSIA MELAKA



Click On Password Management to set UP Username and password Username as **farahin**. You will find in Password Management window, please unlock it and set the password as **1234**.

Configuration Database Setup – SQL Developer

 Step 1: Open a browser and browse the following:

 http://www.oracle.com/technetwork/developer-tools/sql

 developer/downloads/sqldev-downloads-v322-2080107.html
 .

 Accept

 License Agreement and click on download.

www.oracle.com/technetwork/developer-tools/sql-developer/downloads/sqldev-downloads-v322-2080107.html

Accept License Agreement | Decline License Agreement

 3.2.2 Release Notes 	
3.2.2 Bugs Fixed	
New Features	
Documentation	
Platform	
Platform Windows 32-bit - zip file includes the JDK1.6.0_35	Download 20
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Figure 5.22: Execution

Step 3: Once installation complete, click on Desktop shortcut icon to launch SQL Developer.



Figure 5.23: Desktop Shortcut

Step 4: Add new connection.

oracle SQL Developer : C:\Users\acer\multimedia3.sql



Step 5: Insert details and test. If the status is a success, click on connect.

Connection Name	Connection Details	Connection Name	PSM1
labtest	Library_DB@//localhos	<u>U</u> sername	farahin
multimedia	mmDB@//localhost:152	Password	
Psm	sys@//localhost:1521/	Lassuera	
PsmFarahin	farahin@//localhost:15	Save Passwor	rd 💭 Connection Color
		Oracle	
		Connection Type	e Basic 🔻 Role default 👻
		Hostn <u>a</u> me	localhost
		Po <u>r</u> t	1521
			ord
		Service name	
		OS Authenti	cation Kerberos Authentication Advanced
Status : Success			
<u>H</u> elp		ave	<u>Clear</u> <u>T</u> est Connect Cancel

Figure 5.25: Test Connection

Database Creation and Database Objects

Step 1: To create a table using the script just write it on the SQL query worksheet.



5.3 Database Implementation (Appendix 4.2)

In this part, it will explain in DDL/DCL statement and the implementation of main processes including stored procedure and trigger.

a. Select statement

Use to retrieve or select data from the certain table. Example of select statement is:

SELECT * FROM PRODUCT;

b. Where statement

	Use to display data and information from a table with some condition.
Ex	ample of where statement is:
	SELECT * FROM PRODUCT
	WHERE PRICE = 4;
c.	اونيومرسيتي تيڪنيڪل مليسيا ملاك
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Trigger usually is executed to automatically executed other operation.

Some example of trigger as follow:

i. Used to auto generate Primary Key in each table.

create sequence staff_seq
start with 101
increment by 1;

create or replace trigger staff_trigger before insert on staff for each row begin

```
if (:new.staff_id) is null then
select 'S' || staff_seq.nextval into :new.staff_id from dual;
end if;
end;
/
```

ii. Trigger After Insert

Trigger stock amount created to update stock quantity after each purchasing customer made. Every piece decrease will auto subtract the stock quantity.

```
create or replace trigger stock_amount
after insert on cart_order
for each row
begin
update product set in_stock = in_stock - :new.quantity
where product_id = :new.product_id;
end
d. Stored Procedure
```

Use to return information from a database or to insert information into the database directly from the interface. Such as display the table from the database into the interface. Some of the stored procedure as follow:

```
create or replace PROCEDURE viewproduct (
p_product_display OUT SYS_REFCURSOR)
as
begin
open p_product_display for select * from product;
end;
/
```

i.

ii.

product.product_id%TYPE) IS **BEGIN DELETE FROM product WHERE product_id=v_product_id;** END; iii. To view delivery information including the staff that should be in charge for certain delivery and the payment and delivery status. create or replace procedure viewdelivery(rc out sys_refcursor) as begin rc for select delivery_id, delivery_status, delivery_date, open staff_name, payment_status from delivery d, staff s, payment p where s.staff_id=d.staff_id and p.payment_id=d.payment_id; end; iv. This procedure created to display the total sale based on the product. It summarizes each product total sale. Total sale depends on customer purchase. Each customer purchasing will contribute to the total sale. create or replace PROCEDURE viewsale (

create or replace PROCEDURE delete_product(v_product_id IN

p_product_display OUT SYS_REFCURSOR) as begin open p_product_display for SELECT p.PRODUCT_NAME, NVL(SUM(c.QUANTITY*p.PRODUCT_PRICE), 0) as TOTAL_SALES FROM PRODUCT p LEFT OUTER JOIN CART ORDER c

46

ON (p.PRODUCT_ID = c.PRODUCT_ID) GROUP BY P.PRODUCT_NAME; end;

5.4 Conclusion

This chapter describes and explain on implementation part of the project. Involving system and database implementation. The installation step of requiring software also be explained clearly with the screenshot assist. The implementation phase is to prepare the system and project for the testing phase. The testing phase will be done after the system completely build and improvement is done.



CHAPTER VI

TESTING

6.1 Introduction

This chapter involving the process of testing the system. Explanation on the test plans involving the information of the organization, the test environment, and the scheduling which explain on the testing cycle and duration.

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It is also an explanation of the test strategy selected and the classes of tests. As for the test design, the explanation is in the description of the test and the test data. Involving the real life or synthetic data.

As for the testing result and analysis, test case and tester identification is being made. The tester states their overall value for the system using a scale of 1-5 whether the system is worst or great.

6.2 Test Plan

This part explain on the organization involve, the test environment and scheduling of the testing. Including the location, software, and hardware preparation, and the test cycles and duration.

6.2.1 Test Organization

The organization involve is the intended users for this system, Ain Chempaka Closet's Founder, Mohd Arif Bin Yaakub. Before the testing conducted, few information on the system and the testing is explained by the developer.

6.2.2 Test Environment

Test environment includes the details of the requirement, setup, and maintenance for the test to be held. Test requirement involving the user environment, platforms, and the compatibility. As for the setup, it involves the hardware and software configurations.

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 Table 6.2: Details of Test Environment 1

Test Environment 1
Operating System: Windows 10
Browser: Google Chrome
Processor: Intel® Celeron® CPU 1007U @ 1.50GHz

Table 6.3: Details of Test Environment 2

Test Environment 2
Operating System: Windows 8.1
Browser: Mozilla Firefox
Processor: Intel® Celeron® CPU 1007U @ 1.50GHz

Test Environment 3
Operating System: Windows 7
Browser: Google Chrome
Processor: Intel® Celeron® CPU 1007U @ 1.50GHz

Table 6.4: Details of Test Environment 3

6.3 Test Strategy

Test strategy is a blueprint of the testing methodology for the system developed. It is made to explain to the tester or developer about some method of the testing procedure.

a. White Box Testing

White box testing involving the internal structure of the system. Conducted by execute the internal structure of the codes to make sure the test case can be run according to the specific requirement. Usually, white box testing used at Unit Testing and Integration Testing.

b. Black Box Testing

Black box testing conducted without knowing the internal structure of the code. Intended user do the testing as black box testing conducted from customer or end user's view. The purpose of black box testing is to make sure the system developed fulfill the user requirement and needed.

6.3.1 Classes of Test

i. Unit Testing

Unit testing is a development process which the unit or known as module tested individually.

ii. Security Testing



Test schedule states the cycle of the test, duration, and the test activity. Test schedule created to summarize the test to be held.

Module	Test Class	Cycle	Start Date	End Date	Duration
Staff Login	Unit Testing/	1 day/ 3	18/7/2016	20/7/2016	3 days
	Security	Times			
	Testing				
Staff	Unit Testing	1 day/ 5	21/7/2016	25/7/2016	5 days
Registration		Times			

Table	6.5:	Test	Sched	lule

User	Unit Testing	1 day/	5	26/7/2016	30/7/2016	5 days
Registration		Times				
New	Unit Testing	1 day/	5	31/7/2016	4/8/2016	5 days
Product		Times				
Entry						
Customer	Unit Testing/	1 day/	3	18/7/2016	20/7/2016	3 days
Login Security		Times				
	Testing					
Purchasing	Unit Testing	1 day/	5	5/8/2016	9/8/2016	5 days
		Times				

6.4.2 Test Description

shl.

Test conducted covers staff and customer module. Test description for the testing are stated in Table 6.6, Table 6.7, Table 6.8, Table 6.9, Table 6.10 and Table 6.11. For login module and registration, the test cycle will be 3 times and 5 times respectively.

 Table 6.6: Test Description for Staff Login

			1 March 19 1		
Test ID	Description	Test Class	Expected Output		
test_6.6_1	Wrong staff_id /	Unit_AYSTesting/	"Sila Masukkan II		
	Wrong password	Security Testing	dan Kata Laluan		
			Yang Betul!"		
test_6.6_2	Empty field	Unit Testing	"Sila Masukkan ID		
	staff_id/ Empty		dan Kata Laluan"		
	field password				
test_6.6_3	Correct staff_id &	Unit Testing/	"Berjaya Log		
	password	Security Testing	Masuk. SELAMAT		
			DATANG!"		

Test ID	Description		Test C	lass	Expec	Expected Output		
test_6.7_1	Empty	field	Unit T	esting	"Sila	Isi	Semua	
	'Nama'				Maklu	mat"		
test_6.7_2	Empty	field	Unit T	esting	"Sila	Isi	Semua	
	'Alamat'				Maklu	mat"		
test_6.7_3	Empty	field	Unit T	esting	"Sila	Isi	Semua	
	'Jantina'				Maklu	mat"		
test_6.7_4	Empty field '	Emel'	Unit T	esting	"Sila	Isi	Semua	
					Maklu	mat"		
test_6.7_5	Empty field	l 'No	Unit T	esting	"Sila	Isi	Semua	
MALAI	Telefon'				Maklu	mat"		
test_6.7_6	Empty	field	Unit T	esting	"Sila	Isi	Semua	
EKN	'Jawatan'				Maklu	mat"		
test_6.7_7	Empty field	'Kata	Unit T	esting	"Sila	Isi	Semua	
Top a	Laluan'				Maklu	mat"		
test_6.7_8	Complete	filled	Unit T	esting	"PENI	DAFT	ARAN	
با ملاك	'Nama', 'A	lamat',	5	·	BERJA	AYA"		
	'Jantina', '	Emel',		. G. V	1.1			
UNIVERS	I'NoTEK Te	elefon',	MALA	YSIA ME	LAKA			
	'Jawatan',	'Kata						
	Laluan'.							

Table 6.7:	Test Descrip	ntion for	Staff Reg	vistration
	I Cot Deseri		Dual Ince	, isti ation

Table 6.8: Test Description for User Registration

Test ID	Description		Test Class	Expected Output		utput
test_6.8_1	Empty	field	Unit Testing	"Sila	Isi	Semua
	'Nama'			Maklu	mat"	
test_6.8_2	Empty	field	Unit Testing	"Sila	Isi	Semua
	'Alamat'			Maklu	mat"	
test_6.8_3	Empty	field	Unit Testing	"Sila	Isi	Semua
	'Jantina'			Maklumat"		

test_6.8_4	Empty field 'Emel'	Unit Testing	"Sila Isi Semua
			Maklumat"
test_6.8_5	Empty field 'No	Unit Testing	"Sila Isi Semua
	Telefon'		Maklumat"
test_6.8_6	Empty field 'Kata	Unit Testing	"Sila Isi Semua
	Laluan'		Maklumat"
test_6.8_7	Complete filled	Unit Testing	"PENDAFTARAN
	'Nama', 'Alamat',		BERJAYA"
	'Jantina', 'Emel',		
	'No Telefon', 'Kata		
	Laluan'.		

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N

Table 6.9: Test Description for New Product Entry

Test ID	Description	Test Class	Expected Output			
test_6.9_1	Empty field 'Name	a Unit Testing	"Sila Isi Semua			
1 aug	Produk'		Maklumat"			
test_6.9_2	Empty field	l Unit Testing	"Sila Isi Semua			
با ملاك	'Harga(RM)'	ريست تتك	Maklumat"			
test_6.9_3	Empty field 'Saiz'	Unit Testing	"Sila Isi Semua			
UNIVERS	ITI TEKNIKAL	MALAYSIA ME	Maklumat"			
test_6.9_4	Empty field	Unit Testing	"Sila Isi Semua			
	'Deskripsi'		Maklumat"			
test_6.9_5	Empty field	l Unit Testing	"Sila Isi Semua			
	'Jumlah Stok'		Maklumat"			
test_6.9_6	Complete fill	e Unit Testing	"PENDAFTARAN			
	'Nama Produk'	,	BERJAYA"			
	'Harga(RM)',					
	'Saiz', 'Deskripsi'	,				
	'Jumlah Stok'.					

Test ID	Description	Test Class	Expected Output		
test_6.10_1	Wrong	Unit Testing/	"Sila Masukkan ID		
	customer_phone /	Security Testing	dan Kata Laluan		
	Wrong password		Yang Betul!"		
test_6.10_2	Empty field	Unit Testing	"Sila Masukkan ID		
	customer_phone/		dan Kata Laluan"		
	Empty field				
	password				
test_6.10_3	Correct	Unit Testing/	"Berjaya Log		
	customer_phone &	Security Testing	Masuk. SELAMAT		
MALA	password		DATANG!"		

Table 6.10: Test Description for Customer Login

Table 6.11: Test Description for Purchasing

Test ID	Description	Test Class	Expected Output	
test_6.11_1	Empty field 'KOD'	Unit Testing	"GAGAL!"	
test_6.11_2	Wrong field 'KOD'	Unit Testing	"GAGAL"	
test_6.11_3	Filled 'KOD'	Unit Testing	"BERJAYA. SILA	
44	- 0 -	- Q.	ISI MAKLUMAT	
UNIVERS	ITI TEKNIKAL	MALAYSIA MEI	PEMBAYARAN"	

6.4.3 Test Data

The test data used in the testing. The data stated in Table 6.12, Table 6.13, Table 6.14, Table 6.15, Table 6.16 and Table 6.17.

Test Data	Staff_id	Password	Test Output		
1.	S102	Abc123	"Sila Masukkan ID		
			dan Kata Laluan		

			Yang Betul!"		
2.	NULL	NULL	"Sila Masukkan ID		
			dan Kata Laluan"		
3.	S102	123456	"Berjaya Log		
			Masuk. SELAMAT		
			DATANG!"		



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Test	'Nama'	'Alamat'	'Jantina'	'Emel'	'No Telefon'	'Jawatan'	'Kata	Test Output
Data							Laluan'	
1.	NULL	 68 Taman Saujana Putra 72000 Bukit Katil Melaka. 	Lelaki	amir@ccc.com	0192354112	STAFF	12345	"Sila Isi Semua Maklumat"
2.	AMIR	NULL	Lelaki	amir@ccc.com	0192354112	STAFF	12345	"Sila Isi
	SYAH	E						Semua
		"BA						Maklumat"
3.	AMIR	68 Taman	NULL	amir@ccc.com	0192354112	STAFF	12345	"Sila Isi
	SYAH	Saujana Putra	alu	5:4			lain	Semua
		72000 Bukit			- 6	. 03	2	Maklumat"
		Katil Melaka.			**			
4.	AMIR	68 Taman	Lelaki	NULLALN	0192354112	STAFF	12345	"Sila Isi
	SYAH	Saujana Putra						Semua
		72000 Bukit						Maklumat"
		Katil Melaka.						
5.	AMIR	68 Taman	Lelaki	amir@ccc.com	NULL	STAFF	12345	"Sila Isi
	SYAH	Saujana Putra						Semua

Table 6.13: Test Data for Staff Registration

		72000 Bukit						Maklumat"
		Katil Melaka.						
6.	AMIR	68 Taman	Lelaki	amir@ccc.com	0192354112	NULL	12345	"Sila Isi
	SYAH	Saujana Putra						Semua
		72000 Bukit	SIA M.					Maklumat"
		Katil Melaka.	2					
7.	AMIR	68 Taman	Lelaki	amir@ccc.com	0192354112	STAFF	NULL	"Sila Isi
	SYAH	Saujana Putra						Semua
		72000 Bukit						Maklumat"
		Katil Melaka.						
8.	AMIR	68 Taman	Lelaki	amir@ccc.com	0192354112	STAFF	12345	"PENDAFTA
	SYAH	Saujana Putra		1/ ./	· · ·			RAN
		72000 Bukit	milo		ى يە	ورس	اوير	BERJAYA"
		Katil Melaka.			-1-1 -1-1			
		UNIVERS	SITI TE	KNIKAL N	IALAYSI	A MEL	AKA	
Test	'Nama'	'Alamat'	'Jantina'	'Emel'	'No Telefon'	'Kata	Test Output	
------	-----------	--------------	---------------------	--------------	--------------	--------------	-------------	
Data						Laluan'		
1.	NULL	16/1 Taman	Perempuan	azah@acc.com	0127395147	noorazah	"Sila Isi	
	6	Tiram 21300	Me				Semua	
	MIK	Johor Bahru.	EX.				Maklumat"	
2.	NOOR AZAH	NULL	Perempuan	azah@acc.com	0127395147	noorazah	"Sila Isi	
	-						Semua	
	TI0						Maklumat"	
3.	NOOR AZAH	16/1 Taman	NULL	azah@acc.com	0127395147	noorazah	"Sila Isi	
		Tiram 21300		-			Semua	
	الح	Johor Bahru.	$ \geq $, $ \sim $	zis	·	اونيؤم	Maklumat"	
4.	NOOR AZAH	16/1 Taman	Perempuan	NULL	0127395147	noorazah	"Sila Isi	
	LIN	Tiram 21300	TEKNIK		YSIA ME	τι ΔΚΔ	Semua	
	011	Johor Bahru.	T LETXIMI				Maklumat"	
5.	NOOR AZAH	16/1 Taman	Perempuan	azah@acc.com	NULL	noorazah	"Sila Isi	
		Tiram 21300					Semua	
		Johor Bahru.					Maklumat"	
6.	NOOR AZAH	16/1 Taman	Perempuan	azah@acc.com	0127395147	NULL	"Sila Isi	

Table 6.14: Test Data for User Registration

		Tiram 21300 Johor Bahru.					Semua Maklumat"
7.	NOOR AZAH	16/1 Taman Tiram 21300 Johor Bahru.	Perempuan	azah@acc.com	0127395147	noorazah	"PENDAFTA RAN BERJAYA"
	TEKNIK	Table	e 6.15: Test D	ata for New Produ	act Entry		

Table 6.15: Test Data for New Product Entry

Test Data	'Nama	'Harga(RM)'	'Saiz'	'Deskripsi'	'Jumlah Stok'	Test Output	
	Produk'						
1.	NULL	98	S, M, L	Soft Satin	11	"Sila Isi	Semua
	alde	(5:			Maklumat"	
2.	Jubah Lena	NULL	S, M, L	Soft Satin	1	"Sila Isi	Semua
			25 U Z A I	•		Maklumat"	
3.	Jubah Lena	98	NULLAL	Soft Satin	IA MELA	"Sila Isi	Semua
						Maklumat"	
4.	Jubah Lena	98	S, M, L	NULL	11	"Sila Isi	Semua
						Maklumat"	
5.	Jubah Lena	98	S, M, L	Soft Satin	NULL	"Sila Isi	Semua
						Maklumat"	

6.	Jubah Lena	98	S, M, L	Soft Satin	11	"PENDAFTARAN
						BERJAYA"



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Test Data	Customer_phone	Password	Test Output
1.	0192220289	ddsdsds	"Sila Masukkan ID
			dan Kata Laluan
			Yang Betul!"
2.	NULL	NULL	"Sila Masukkan ID
			dan Kata Laluan"
3.	0192220289	000000	"Berjaya Log
			Masuk.
			SELAMAT
			DATANG!"

Table 6.16: Test Data for Customer Login



6.5 Test Result and Analysis

Test result from the conducted testing activities compiled in Appendices section (Appendix 6.3). Based on the test result, the system can perform the test execute by the tester. Reflect from the result, the intended users satisfied with system. But, few function need to be improve. With the scale 1-5, the system will be 3.

6.6 Conclusion

From the testing, the system evaluated by the intended users. Their response and opinion can be used for future improvement. Test results obtained from users, will be used to study the strengths and weaknesses of the system was built. At the same time, study the opportunities and threats from the environment.



CHAPTER VII

CONCLUSION

7.1 Introduction

This chapter concludes the documentation and the development of the project. Observation on the weaknesses and strengths of the project also explained using SWOT analysis. From the test conducted, other's responses and opinion also stated.

Based on the responses and opinions, there will be propositions for future improvement for the system to perform better. The contribution of the project also explained in this chapter.

7.2 Observation on Weaknesses and Strengths

This observation compiled based on the responses and opinion during the testing phase. For a better understanding, the observation explained using SWOT analysis. SWOT is an acronym for strengths, weaknesses, opportunity and threat whereby it is suitable to explain and conclude the responses.

Strengths	Weaknesses
1. Good data management	1. Scope
- Computerized data	- Limited for customer and
management.	staff usage only.
- Record and retrieve data from	- Not covering supplier scope.
the database.	
- Prevent data redundant.	2. Functionality
	- Common functionality among
2. Performance	shopping system.
- Save time for purchasing.	
- Faster data retrieve.	
AYSI.	
3. Availability	
- 24 hours availability.	
¥. •	
4. Portability	
- Multi-platform.	
Opportunity	Threat
1. Internet	1. Competitors
The rapid growth of internet	IALAYSIAs technology growth,
usage.	competitors can develop the
	same system for their usage.
2. Big company	
- Other company may	
interested in using the system	
to ease their operation.	
- Technology becomes a	
beneficial investment for	
company future.	

Table 7.1: SWOT Analysis

7.3 **Propositions for Improvement**

For future improvement, few functional can be added to improvise the developed system. The functional can be added are:

a. Shopping Cart

The ACC system enables the user to purchase the product. The quantity and price being used for the analysis of the sales for the online shopping. But, the development of the shopping cart for customer usage is not succeeded. As for a better future use, shopping cart function can be developed in the system.

b. Supplier Scope

The ACC system covers staff and customer management. As for the supplier, the operation still conducted manually. Supplier management can be added into the system covering the stock management, shipping, and payment.

c. Security level

Currently, the password is the only security level provided by the system. For future, the level should be higher including the session expired, alphanumeric passwords, and conduct regular password changing.

7.4 Contribution

ACC Management System is proposed especially for Ain Chempaka Closet. This system will benefit the staff and their customer. The staff can manage the sale or order, advertise the product for their customer. For their customer, they can place an order without having to directly go to the store and can automatically count or total up their overall cart. For Ain Chempaka Closet reference, the user manual is included on Appendix 5.2 section. The disk contains software installer, user manual, and the system also provided.

7.5 Conclusion

The ACC system replaces the manual system of the operation with the computerized system. Replace the use of paper in the record and manage the information for customer and staff. As for the analysis, the system enables staff to track the number of sales and customer. In order to build the actual shopping cart is not succeeded. But the data from purchasing can still be used to generate a valid report for business improvement.

Although the system is successfully developed, many improvements can be made for future use along with current demand. This system can improve the operations of Ain Chempaka Closet. From using the social network as business platform, Ain Chempaka Closet can now manage their operation effectively with the development of Ain Chempaka Closet Management System (ACC).

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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APPENDICES

Appendix 4.1

Data definition Language (DDL)

Create table Product



Create table staff

create table staff (staff_id varchar2 (10) not null, staff_name varchar2 (30), staff_address varchar2 (50), staff_gender varchar2 (10), staff_email varchar2 (20), staff_phone varchar2 (11), staff_position varchar2 (20), staff_password varchar2 (10), primary key (staff_id));

Create Table Payment



Create table cart_order

create table cart_order (

cart_id varchar2 (10) not null,

customer_id varchar2 (10) not null,

product_id varchar2 (10) not null,

date_order date,

quantity number,

primary key (cart_id, customer_id, product_id),

foreign key (customer_id) references customer (customer_id),

foreign key (product_id) references product (product_id)

);

Create table invoice

	ALATSIA
1	create table invoice (
	invoice_id varchar2 (10),
	invoice_date date,
P.	total_price varchar2 (10),
	customer_id varchar2 (10),
5	product_id varchar2 (10),
JÞ	delivery_id varchar2 (10), _ MALAYSIA MELAKA
	foreign key (cart_id, customer_id, product_id) references cart_order
	(cart_id, customer_id, product_id),
	foreign key (delivery_id) references delivery (delivery_id),
	primary key (invoice_id)
);

Appendix 4.2

Trigger and Stored Procedure

Trigger Before Insert

1. Used to auto generate Primary Key in each table.

	create sequence staff seq
	start with 101 increment by 1;
Terring TERUNG	create or replace trigger staff_trigger before insert on staff for each row begin if (:new.staff_id) is null then
UNIV	select 'S' staff_seq.nextval into :new.staff_id from dual;
	end if;
	end;
	/

create sequence customer_seq

start with 1001

increment by 1;

create or replace trigger customer_trigger

before insert on customer

for each row

begin

if (:new.customer_id) is null then

select 'C' || customer_seq.nextval into :new.customer_id from dual;

end if;

end;

/

1	ALAYSIA
A TEKNINA	create sequence cart_seq start with 11 increment by 1;
X	اويبونر سيني تيڪنيڪل مليسيا ه create or replace trigger cart
UNIV	ERSITI TEKNIKAL MALAYSIA MELAKA before insert on cart_order
	for each row
	begin
	if (:new.cart_id) is null then
	select 'CT' cart_seq.nextval into :new.cart_id from dual;
	end if;
	end;
	/

	create sequence prod_seq
	start with 1
	increment by 1;
	create or replace trigger product_trigger
	before insert on product
	for each row
	begin
	if (:new.product_id) is null then
\mathcal{S}	select 'P' prod_seq.nextval into :new.product_id from dual;
	end if;
2	end;
-0	mn
N 1	

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

create sequence inv_seq

start with 1001

TEKNIA

increment by 1;

create or replace trigger invoice_trigger

before insert on invoice

for each row

begin

if (:new.invoice_id) is null then

select 'INV' || inv_seq.nextval into :new.invoice_id from dual;

end if;

end;

/

ĺ	
	create sequence deliver_seq
	start with 101 increment by 1;
Ines.	create or replace trigger delivery_trigger
EK	before insert on delivery
F	before misert on denvery
E.	for each row
1. E. S.	///0
KE	اونيۇبرسىتى تېكنىكل ملىستام
	if (:new.delivery_id) is null then
UNIV	ERSITI TEKNIKAL MALAYSIA MELAKA select 'DLV' deliver_seq.nextval into :new.delivery_id from dual;
	end if;
	end;
	/

create sequence pay_seq

start with 101

increment by 1;

create or replace trigger payment_trigger

before insert on payment

for each row

begin

if (:new.payment_id) is null then

select 'PAY' || pay_seq.nextval into :new.payment_id from dual;

end if;

end;

Trigger After Insert

Trigger stock amount created to update stock quantity after each purchase customer made. Every pieces decreases will auto subtract the stock quantity.

create or replace trigger stock_amount

after insert on cart_order

for each row

begin

update product set in_stock = in_stock - :new.quantity

where product_id = :new.product_id;

end

Trigger Before Update

Before each update on payment table, payment date will updated to current date. To make sure that data about receive item and accepting of payment will be the same.



After update payment status in table payment, the delivery status in table delivery will be set to 'SELESAI'. It means that the payment and delivery have been made.

create or replace trigger delivery_status

after update on payment

for each row

begin

update delivery set delivery_status = 'Selesai'

where payment_id = :new.payment_id;

end;

Trigger Before Delete

Trigger After Delete



DML Stored Procedure





IS

BEGIN

INSERT INTO customer

(customer_name, customer_address, customer_gender, customer_email, customer_phone, customer_password, staff_id)

VALUES (v_customer_name, v_customer_address, v_customer_gender,v_customer_email, v_customer_phone, v_customer_password, v_staff_id);

END;

CREATE OR REPLACE PROCEDURE product_insert (v_product_name varchar2, v_product_price number, v_product_size varchar2, v_product_description varchar2, v_in_stock number)

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

IS

BEGIN

INSERT INTO product

(product_name,product_price,product_size, product_description, in_stock)

VALUES (v_product_name, v_product_price, v_product_size,v_product_description, v_in_stock);

END;

v_staff_id IN staff.staff_id%TYPE,

v_staff_name IN staff.staff_name%TYPE,

v_staff_address IN staff.staff_address%TYPE,

v_staff_gender IN staff.staff_gender%TYPE,

v_staff_email IN staff.staff_email%TYPE,

v_staff_phone IN staff.staff_phone%TYPE,

v_staff_position IN staff.staff_position%TYPE,

v_staff_password IN staff.staff_password%TYPE)

BEGIN

IS

UPDATE staff SET staff_id=v_staff_id, staff_name=v_staff_name, staff_address=v_staff_address, staff_gender=v_staff_gender, staff_email=v_staff_email, staff_phone=v_staff_phone, staff_position=v_staff_position, staff_password=v_staff_password WHERE staff_id=v_staff_id; COMMIT; END;

create or replace PROCEDURE customer_update (

v_customer_id IN customer.customer_id%TYPE,

v_customer_name IN customer.customer_name%TYPE,

v_customer_address IN customer.customer_address%TYPE,

v_customer_gender IN customer.customer_gender%TYPE,

v_customer_email IN customer.customer_email%TYPE,

v_customer_phone IN customer.customer_phone%TYPE,

v_customer_password IN customer.customer_password%TYPE,

v_staff_id IN customer.staff_id%TYPE)

IS

BEGIN

UPDATEcustomerSETcustomer_id=v_customer_id,customer_name=v_customer_name,customer_address=v_customer_address,customer_gender=v_customer_gender,customer_email=v_customer_email,customer_phone=v_customer_phone,customer_password=v_customer_password,staff_id=v_staff_idWHERE customer_id=v_customer_id;

UNIV COMMIT; EKNIKAL MALAYSIA MELAKA

END;

create or replace PROCEDURE viewcustomer (

p_customer_display OUT SYS_REFCURSOR)

as

begin

open p_customer_display for select * from customer;

end;

create or replace PROCEDURE viewstaff (

p_staff_display OUT SYS_REFCURSOR)

as

begin

open p_staff_display for select * from staff;

end;



create or replace PROCEDURE delete_product(v_product_id IN
product.product_id%TYPE)

IS

BEGIN

DELETE FROM product WHERE product_id=v_product_id;

END;

Simple Stored Procedure

To view delivery information including the staff that should be in charge for certain delivery and the payment and delivery status.

create or replace procedure viewdelivery(

rc out sys_refcursor)

as

begin

open rc for select delivery_id, delivery_status, delivery_date, staff_name, payment_status from delivery d, staff s, payment p

where s.staff_id=d.staff_id and p.payment_id=d.payment_id;

end;

Complex Stored Procedure

This procedure created to display the total sale based on the product. It summarize each product total sale. Total sale depend on customer purchase. Each customer purchasing will contribute to the total sale.

```
create or replace PROCEDURE viewsale (

p_product_display OUT SYS_REFCURSOR)

as

begin

open p_product_display for SELECT p.PRODUCT_NAME,

NVL(SUM( c.QUANTITY*p.PRODUCT_PRICE ), 0) as

TOTAL_SALES

FROM PRODUCT p
```

LEFT OUTER JOIN

CART_ORDER c

ON (p.PRODUCT_ID = c.PRODUCT_ID)

GROUP BY P.PRODUCT_NAME;

end;



Appendix 5.2

Software Installation and Configuration

Software Development Setup

In the development of the system, few needed of hardware and software must be fulfilled. First of all, laptop or personal computer is a must have the hardware to start installing the require software. This system using Oracle 11g Release 2 as the database and Wampserver as a server. In execution of user interface design, PHP programming language being used through Adobe Dreamweaver CS3. SQL Developer being installed to ease the database view. Without the installation of SQL Developer, the developer can use the command prompt.

b. Wamp Server

Step 1: Firstly, click on the download button to download exe file from WampServer at

https://sourceforge.net/projects/wampserver/?source=typ_redirect.



UNIVERS Figure 5.2: Source Forge Website MELAKA

Oncethedownloadcomplete,clickonthewampserver3.0.4_x86_apache2.4.18_mysql5.7.11_php5.6.19-7.0.4 and clickRun.

Figure 5.3: Security Warning

	Open File	- Security W	arning			23		
	The publisher could not be verified. Are you sure you want to run this software?							
	Name:3.0.4_x86_apache2.4.18_mysql5.7.11_php5.6.19-7.0.4.exe							
		Publishe	r: Unknown P	ublisher				
		Тур	e: Application					
		From	n: C:\Users\ace	er\Downloads\war	mpserver3.0.4	_x86_apach		
				Ru	IN	Cancel		
	Alwa	ays ask befor	e opening this f	ile				
	This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. How can I decide what software to run?							
Step 2:	Select la	anguage.	کل م	ڪنيد	ىيتى تي	اونيوس		
Ū	INIVE	RSITI	Figure 5.4:	: Select Lang	guage	MELAKA		
		Select Set	ip Language			×		
		ω	Select the lang Installation:	uage to use durir	ng the			
			English			~		
				ОК	Cancel			

Step 3: Agree on the agreement.

Setup - Wampserver32 —	
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of the agreement before continuing with the installation.	s
** WampServer Creator : Romain Bourdon Maintainer/Upgrade to 2.5 : Herve Lederc	^
Upgrade 2.5 to 3.0.0 : Otomatic (wampserver@otomatic.net) http://forum.wampserver.com/index.php GNU LESSER GENERAL PUBLIC LICENSE Version 3, 29 June 2007	
 ○ I accept the agreement ● I do not accept the agreement 	~
WAINDSERVER UIStall by Inno Secup	Cancel
Step 4: Set location. Next. Figure 5.6: Set File Location	M
الله الله الله الله الله الله الله الله	۲ نیو کر ۱
Setup will install Wampserver32 into the following folder.	ELAKA
To continue, click Next. If you would like to select a different folder, click Bro	owse.
c: \wamp	rowse
At least 1,873.4 MB of free disk space is required. Wampserver Install by Inno Setup	
< Back Next >	Cancel

Figure 5.5: Agreement

Step 5: Continue until the installation finished.

Step 6: Click on Wamp server icon and put online.

Figure 5.7: Startup Server



 Step
 1:
 Open
 a
 browser
 and
 browse

 http://www.oracle.com/technetwork/database/enterprise edition/downloads/index.html
 and download
 Oracle 11g
 Release 2
 Microsoft

Windows (x64). Download both of the Zip files.



Figure 5.8: Oracle Website

Click Here on Setup Files to Start Installing Oracle on your system.

Size: 333 KB

Date created: 8/30/2010 10:16 AM

State: 👪 Shared

Application Date modified: 3/12/2010 12:11 AM

□ LION (E:) □ TIGER (F:) SD/MMC (I:)

Network setup

11

Step 2: Installing and Configuring Oracle.

8. Click on the setup icon to launch the installer. You should then see the following screen shot. Enter a *password* for the SYS and SYSTEM users (if you're coming to Oracle from a MySQL background they're like the root user in MySQL). When you've entered a matching password in both fields, the *Install* button becomes active. Click the *Install* button to proceed.

Once Setup Start.

You need to enter your email id. if you require updated from Oracle

9. In this screen, you're prompted for your *Email* and *MetaLink Password*. If this is a test database (a throwaway instance without any real data), you can uncheck the box for automatic security updates. You should enter a password even for test databases. Click the *Next* button to proceed.

A ANNO	Figure 5.1	0: Installation
Oracle Universal Inst	کنیکل مل	PATABASE 118
Provide your email initiate configuratio	address to be informed of security is in manager. <u>View details.</u> Se <u>m</u> ail: Easier for you if you use you	seues, install the product and ELAKA
I wish to receive MetaLink Pa	security updates via MetaLink. ssword:	
Help	Installed Products	Back Next Install Cancel

Select Configure and Database Option (First Option) Press Next Button.

Select Desktop class Option Press Next.

This Will be the next window appear on your screen

Figure 5.11: Installation Method

👙 Oracle Database 11g Installa	tion - Select a Product to Instal	I		
Select Installatio	n Method			E 118
Basic Installation Perform full Oracle Databa This option uses file syste	ase 11g installation with standa m for storage, and a single pa	ard configuration option ssword for all database	s requiring mil : accounts.	nimal input.
Oracle Base Location:	C:\app\Saurabhx64		4	Bro <u>w</u> se)
Oracle Home Location:	C:\app\Saurabhx64\product\1.1.1	1.0\db_1		Browse
Installation Type:	Enterprise Edition (2.9GB)			*
Create Starter Databas	e (additional 1482MB)			
Global Database Name	e: orcl			
Database Password:		Confirm Password	:	
لیسیا ملاک	کنيکل،	Back Next	(Install	Cancel
	Figure 5.12: In	nstallation		
Cracle Universal Installe	r: Product-Specific Prerequisite Chee	&LAT SIA I		
		D	ATABASE	11 ⁸
Product-Spec	ific Prerequisite Che	cks		
The Installer verifies th configuring the produc are flagged with warni checks, click the item :	at your environment meets all of the ts that you have chosen to install. Yo ngs and items that require manual o and review the details in the box at th	minimum requirements fo ou must manually verify and checks. For details about pe ne bottom of the window.	r installing and I confirm the iterr erforming these	is that
Check		Туре	Status	
Checking operating s	ystem requirements	Automatic		
Checking service pad	k requirements emory requirements	Automatic Automatic	Succeeded	
1 errors, 2 requireme	nts to be verified.		Retry	Stop
Checking operating st Expected result: One Actual Result: 6.1	/stem requirements of 5.0,5.1,5.2,6.0			
Help	nstalled <u>P</u> roducts	ack Next	(nstall C	ancel

The checked boxes now say User Verified, Click the Next button to proceed.

-roauct-	Specific Prerequisite	Checks			
The Installer ve configuring the	rifies that your environment meets al products that you have chosen to ins	I of the minimum i stall. You must ma	requirements f nually verify an	or in d co	stalling and nfirm the items tha
are flagged wit checks, click th	h warnings and items that require ma e item and review the details in the b	anual checks. For lox at the bottom of	details about p f the window.	perfo	rming these
Check			Туре		Status
Checking operating system requirements			Automatic		User Verified
Checking sen	rice pack requirements		Automatic		User Verified
Checking phy	sical memory requirements		Automatic	R	Succeeded
					Retry Stop
1 errors 0 rec	juirements to be verified.				
. 511010, 0100					
					1

Figure 5.13: Installation

10. At this point, you'll get a *Windows System Alert* asking you to unblock the installer's javaw.exe program. You must grant the access or forget about installing Oracle 11g. Click the *Allow access* button to proceed.

اونيةم سية تتكنيكا مليسيا ملاك

		Figure	5.14: Firewall Permission		
Ú	🗬 Windows Secu	rity Alert KN	IKAL MALAYSIA MELAKA		
	💮 Windo	ows Firewal	ll has blocked some features of this program		
	Windows Firewall has blocked some features of Java(TM) 2 Platform Standard Edition binary on all public and private networks.				
		Name:	Java(TM) 2 Platform Standard Edition binary		
		Publisher:	Sun Microsystems, Inc.		
		Path:	C: \users \mclaughlin-7x64\appdata \local \temp \orainstall2009-11-27_01-10-18pm \jdk \jre \bin \javaw.exe		
	Allow Java(TM) 2 P	latform Standar	rd Edition binary to communicate on these networks:		
	V Private netw	vorks, such as n	ny home or work network		
	Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)				
	What are the risks	of allowing a pr	ogram through a firewall?		
			Allow access Cancel		
11. The dialog tells you what will be installed. Click the *Install* button to proceed.



Figure 5.15: Installation Summary

12. This is the installation progress dialog. It's running while the Oracle
Installer lays down the operating system files for the database management system. It takes about 8 to 9 minutes, so stretch your legs if you want to take a break. When it's 100% complete, click the *Next* button to continue.



Figure 5.16: Installation

13. After the installation, you'll see the first of the *Configuration Assistants*, which is the *Oracle Net Configuration Assistant* (unfortunately, I didn't capture that screenshot but I provided a temporary substitute until I re-install it). Provided everything happens successfully, it'll move to the next step without your intervention.

Oracle Universal Installer: Configuration Assistants		
		ORACLE 11
Configuration Assistants		
The following configuration assistants will configure and	start the components y	ou selected earlier.
Tool Name	Status	Туре
Oracle Database 11g		
C Oracle Net Configuration Assistant	Succeeded	Recommended
Oracle Database Configuration Assistant	In progress	Recommended
🖾 Oracle Configuration Manager Configuration	Pending	Recommended
Details (see full log at C:\Program Files\Oracle\Inventory\	logs\installActions2009	<u>Retry</u> Stop 9-11-27_01-10-18PM.log):
Configuration assistant "Oracle Net Configuration Assist	tant" succeeded	
	stabaas Osefinunstian	
Output generated from configuration assistant "Oracle D	atabase Configuration	Assistant": 🕞
Output generated from configuration assistant "Oracle D	Back Next	Assistant":

Figure 5.17: Installation

You should receive another *Windows Security Alert*. You need to click the *Allow access* button to let java.exe proceed with the installation.

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Figure 5.18: Firewall Permission

Windows Securi	ty Alert	X		
Window	ws Firewal	l has blocked some features of this program		
Windows Firewall ha all public and private	as blocked some e networks. Name:	e features of Java(TM) 2 Platform Standard Edition binary on Java(TM) 2 Platform Standard Edition binary		
	Publisher:	Sun Microsystems, Inc.		
	Path:	C:\app\mclaughlin-7x64\product\11.1.0\db_1\jdk\jre\bin \java.exe		
Allow Java(TM) 2 Pla	atform Standar	d Edition binary to communicate on these networks:		
Private netwo	orks, such as m	y home or work network		
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)				
What are the risks of allowing a program through a firewall?				
AA	LAYSIA A	Allow access Cancel		

14. This one is exactly where it belongs. It means you have approximately a 5 to 6 minute break while a sample database instance is cloned for you. The cloning process copies a sample compressed database from the installation staging area to your local operating system.

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 π^{\pm}

Oracle Universal Installer: Configuration Assistants		
		DATABASE 11
Configuration Assistants		
The following configuration assistants will configure and	start the components y	ou selected earlier.
Tool Name	Status	Туре
Oracle Database 11g		
C Oracle Net Configuration Assistant	Succeeded	Recommended
📕 Oracle Database Configuration Assistant	In progress	Recommended
Oracle Configuration Manager Configuration	Pending	Recommended
Details (see full log at C:)Program Files)Oracle)Inventom	Ings)installActions2009	Retry Stop
Configuration assistant "Oracle Net Configuration Assist	tant" succeeded	
Help Installed Products	Back	Assistant :

Figure 5.19: Installation

It will prompt you if you want to open any of the other schemes. You can skip this and do it later, or click *Password Management* to open those scheme and set passwords for them

set passwords for them. TEKNIKAL MALAYSIA MELAKA

Figure 5.20: Installation Success



Click On Password Management to set UP Username and password Username as **farahin**. You will find in Password Management window, please unlock it and set the password as **1234**.

Configuration Database Setup – SQL Developer

 Step
 1:
 Open
 a
 browser
 and
 browse

 http://www.oracle.com/technetwork/developer-tools/sql

 Accept

 developer/downloads/sqldev-downloads-v322-2080107.html
 .
 Accept

Figure 5.21: SQL Developer Website

www.oracle.com/technetwork/developer-tools/sql-developer/downloads/sqldev-downloads-v322-2080107.html

Accept License Agreement Decline License Agreeme	nt
3.2.2 Release Notes	
• 3.2.2 Bugs Fixed	
New Features	
Documentation	
Dististication	
Flatform	
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Download previous releases here

Step 2: Execute sqldeveloper.exe

WALAYS/4

Fi	gure 5.22: Exe	cution	
Downloads 🕨	Oracle 🕨 sqldevel	oper-3.2.20.09.87 🕨	
Share v	with 🔻 Burn	New folder	
Alla Name Jatamihe	کنیک	Dat موسيتي تيھ	رنيوم
	KNIKAL M		LAK
퉬 jdbc		9-0	
퉬 jdev		9-0	
퉬 jdk		9-0	
퉬 jlib		9-0	
퉬 jviews		9-0	
퉬 modules		9-0	
퉬 rdbms		9-0	
퉬 sleepycat	t	9-0	
🌗 sqldeveld	oper	9-0	
퉬 sqlj		9-0	
🌗 timingfra	amework	9-0	
💽 icon.png		30-:	
🧹 jdev.labe	1	30-:	
🧿 readme.ł	ntml	30-:	
🔍 sqldeveld	oper.exe	30-:	

Step 3: Once installation complete, click on Desktop shortcut icon to launch SQL Developer.



Figure 5.23: Desktop Shortcut

Step 4: Add new connection.



Step 5: Insert details and test. If the status is a success, click on connect.

Figure 5.25: Test Connection

Connection Name	Connection Details	Connection Name	PSM1
abtest	Library_DB@//localhos	<u>U</u> sername	farahin
multimedia	mmDB@//localhost:152	Password	
Psm	sys@//localhost:1521/		
PsmFarahin	farahin@//localhost:15	Save Passwor	rd 🖳 Connection Color
		Oracle	
		Constant Toront	
		Connection I ype	e Basic V Roje default
		Hostname	localhost
		Po <u>r</u> t	1521
		SID	ord
		O Service name	
		OS Authoriti	estion Kerbaras Authoritization Adversed
			Auvanceu
Status : Success			
iatus i success			
Liele		lave	Clear Test Connect Cancel

Database Creation and Database Objects

Step 1: To create a table using the script just write it on the SQL query worksheet.

Figure 5.26: SQL Workspace

Elle Edit View Navigate Run Source Team Iools V	lindow Help
Connections · Reports · · O Start Page & multimed	ang 1 PICTURES_TRIG &multimedia.and &multimedia.and @numerica.and @numerica.and @numerica.and @numerica.and
	🕼 🤮 🏖 🆉 🗟 🍂 🔢
	here
Constanting of the second	
Step 2: To view the da	atabase object.
سيا ملاك	Figure 5.27: Database Object
UNIVERSI	File Edit View Navigate Run Source
	Connections × Reports C 3 Start
	Connections Workshee
	B labtest B multimedia
	bi⊢ en Psm ⊡- ling, PsmFarahin - Ren Tables (filtered)
	⊕-⊞ STAFF ⊕- Views
	⊕ - 📴 Editioning Views ⊕ - 📴 Indexes
	명···· 영 Packages 요·· 경 Procedures
	B - B Queues B - B Queues Tables
	Triggers Grossedition Triggers
	🕀 🔂 Types
	Berne Materialized Views Berne Materialized View Log
	e-교 Synonyms Message 후-교 Public Synonyms
	Database Links Messages

Appendix 6.3

Test Result

Test	Date	R	Result		
ID		Description	OK	Failed	
test_6.6_1	18/7/2016	Wrong staff_id /	\checkmark		
		Wrong password			
test_6.6_2	18/7/2016	Empty field	\checkmark		
		staff_id/ Empty			
		field password			
test_6.6_3	18/7/2016	Correct staff_id &	\checkmark		
		password			

Test	Date	R	lesult	
ID A	LAKA	Description	OK	Failed
test_6.7_1	21/7/2016	Empty field	\checkmark	
Field		'Nama'	7 V I	
test_6.7_2	21/7/2016	Empty field		
Alte	Lundo 1	'Alamat'	ە ئىەتىر بىي	
test_6.7_3	21/7/2016	Empty field		
UNIVE	ERSITI TEKI	'Jantina'MALAYS	IA MELAK	4
test_6.7_4	21/7/2016	Empty field 'Emel'		
test_6.7_5	21/7/2016	Empty field 'No		
		Telefon'		
test_6.7_6	21/7/2016	Empty field		
		'Jawatan'		
test_6.7_7	21/7/2016	Empty field 'Kata	\checkmark	
		Laluan'		
test_6.7_8	21/7/2016	Complete filled		
		'Nama', 'Alamat',		
		'Jantina', 'Emel',		
		'No Telefon',		
		'Jawatan', 'Kata		

	Laluan'.	

Test	Date	R	lesult	
ID		Description	OK	Failed
test_6.8_1	26/7/2016	Empty field	\checkmark	
		'Nama'		
test_6.8_2	26/7/2016	Empty field		
		'Alamat'		
test_6.8_3	26/7/2016	Empty field		
		'Jantina'		
test_6.8_4	26/7/2016	Empty field 'Emel'		
test_6.8_5	26/7/2016	Empty field 'No		
and the	M.C.	Telefon'		
test_6.8_6	26/7/2016	Empty field 'Kata	\checkmark	
H		Laluan'		
test_6.8_7	26/7/2016	Complete filled	V	
(A.B.)	Nn -	'Nama', 'Alamat',		
ste	Junila 15	'Jantina', 'Emel',	in min	1
	0	'No Telefon',	· · · · · ·	
UNIV	ERSITI TEKI	'Kata Laluan'. AYS	IA MELAK	Д

Test	Date	R	Result		
ID		Description	OK	Failed	
test_6.9_1	31/7/2016	Empty field 'Nama Produk'			
test_6.9_2	31/7/2016	Empty field 'Harga(RM)'	\checkmark		
test_6.9_3	31/7/2016	Empty field 'Saiz'	\checkmark		
test_6.9_4	31/7/2016	Empty field 'Deskripsi'			
test_6.9_5	31/7/2016	Empty field	\checkmark		

		'Jumlah Stok'	
test_6.9_6	31/7/2016	Complete fille	
		'Nama Produk',	
		'Harga(RM)',	
		'Saiz', 'Deskripsi',	
		'Jumlah Stok'.	

Test	Date	Result		
ID		Description	OK	Failed
test_6.10_1	18/7/2016	Wrong	\checkmark	
		customer_phone /		
	ALAYSIA	Wrong password		
test_6.10_2	18/7/2016	Empty field	\checkmark	
	E.	customer_phone/		
E F		Empty field		
FIGH		password	7 V I	
test_6.10_3	18/7/2016	Correct		
ملاك	کل ملیسیا	customer_phone & password	ونيؤمرسي	

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Test	Date	Result		
ID		Description	OK	Failed
test_6.11_1	5/8/2016	Empty field 'KOD'	\checkmark	
test_6.11_2	5/8/2016	Wrong field 'KOD'	\checkmark	
test_6.11_3	5/8/2016	Filled 'KOD'	\checkmark	