COMMITMENT TRACKER SYSTEM

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BORANG PENGESAHAN STATUS LAPORAN

JUDUL: COMMITMENT TRACKER SYSTEM

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[COMMITMENT TRACKER SYSTEM]

FATIN AQILAH BINTI NORHALIM

This report is submitted in partial fulfillment of the requirements for the Bachelor of [Computer Science (Software Development)] with Honours.

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

[2023]

DECLARATION

I hereby declare that this project report entitled

COMMITMENT TRACKER SYSTEM

is written by me and is my own effort and that no part has been plagiarized without citations.

STUDENT : FATIN AQILAH BINTI NORHALIM Date : 13/9/2023

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 (Software Development)] with Honours.

SUPERVISOR : TS. DR. UMMI RABAAH BINTI HASHIM Date : 21/9/2023

DEDICATION

Thanks to the creator who has given me the opportunity and time to carry out this project successfully. I am extremely grateful and thankful to two individuals who are very meaningful in my life, namely my mother and father, who always provide support and encouragement for me to remain passionate in carrying out this project. My deepest thanks to my mother and father, who work hard to earn a living and provide all the necessary means for me to successfully complete this project.

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ABSTRACT

The Commitment Tracker System is a web-based application designed to address the challenges associated with managing personal commitments. The manual system of recording commitments on paper often leads to data loss, missed deadlines, and inefficient tracking. This system aims to provide an efficient and effective solution by digitizing the commitment management process. This study focuses on analyzing the problems associated with the manual system and proposing a digital solution to overcome these limitations. The main objectives are to reduce data loss, improve reminder notifications, enhance commitment tracking, and provide insightful analytics. The research process involved conducting a problem analysis to identify the faults of the manual system. The findings revealed that data loss, lack of reminder notifications, and difficulty in tracking commitments were major concerns. Additionally, the lack of analysis features made it challenging to monitor commitment progress effectively. Based on the requirements analysis, the functional and non-functional requirements of the Commitment Tracker System were identified. The functional requirements include user registration, commitment creation and management, reminder notifications, and analytics features. The non-functional requirements emphasize reliability, security, accessibility, and performance. The high-level design of the system follows a layered architecture, comprising the Presentation Layer, Business Logic Layer, Data Access Layer, and Database Layer. Each layer has specific responsibilities and interacts with adjacent layers to deliver the desired functionality. The results obtained from implementing the Commitment Tracker System showed significant improvements in commitment management. Users were able to create, update, and track their commitments effectively. The system provided timely reminder notifications and offered analysis charts to visualize commitment progress. The user experience was enhanced with features such as account registration, login/logout functionality, and data security measures.

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LIST OF ABBREVIATIONS

FYP	**-**	**Final Year Project**
XAMPP	**-**	**Cross-Platform (X), Apache (A), MySQL (M), PHP (P) and Perl (P)**
MySQL	**-**	**My Structured Query Language.**
UTeM	**-**	**Universiti Teknikal Malaysia Melaka**
HTML	**-**	**Hypertext Markup Language**
CSS	**-**	**Cascading Style Sheets**
PHP	**-**	**Hypertext Preprocessor**
RAM	**-**	**Random Access Memory**
AMD	**-**	**Advanced Micro Devices**

CHAPTER 1: INTRODUCTION

1.1 Introduction

Commitment Tracker is the system that will be created to help the user manage their personal commitment in a month. This system will replace manual system that required the user to write it on paper. Users can create commitments and set specific goals, track progress, and receive reminders to help them stay on track. The commitments will be divided into several categories, such as cars, houses, utility bills, credit cards, etc. The system also provides an analysis charts that enable users to monitor their progress and identify areas for improvement. The system will notify the user if their commitments are overdue. The purpose of this system is to make it simpler for users to keep track of their commitments that must be fulfilled within a month. The system is designed to be simple, intuitive, and easy to use, making it an ideal choice for anyone who wants to stay on top of their commitments and progress towards their goals.

1.2 Problem Statements

- Manually listing the commitments raises the possibility of data loss.
- Using a manual system, the user is likely to forgetting to fulfil their commitments that will cause the commitments is overdue.
- The manual system doesn't have a remainder notification; the user need to do self-remainder by see the paper that list the commitment.

- It is difficult for the people to remember and track their commitment by itself.

1.3 Objective

1. To provide an easy-to-use interface that allows users to organize their commitments and tasks in a clear and efficient way.

2. To help users to manage their time effectively by providing tools to prioritize tasks, set reminders, and schedule tasks.

3. To help users to be accountable for their commitments by providing tools to track progress and monitor performance.

1.4 Scope

1. User

   - Create/update/delete list of commitment.

   - View list of commitment.

   - Mark as done/paid for each of commitment.

   - View list of overdue commitment.

   - View analysis chart and report of the commitment progress.

   - Get a remainder notification from the system.

1.5 Project Significance

The significance of the project is offers an innovative solution to a common problem faced by many people that want to keeping track of personal commitments and goals. The system provides an easy-to-use interface, analysis charts, and reminder notifications from the system that can help users stay on track and be more accountable for their commitments. By replacing the traditional manual system of writing commitments on paper, the system offers a more efficient and effective way of managing personal commitments and goals.

The project's significance is also evident in its potential to improve productivity and reduce stress levels for users. By providing tools to prioritize tasks, schedule commitments, and track progress, the system can help users manage their time more effectively and reduce the possibility of forgetting to fulfill their commitments. Additionally, the system analysis charts can help users identify areas for improvement, leading to a more organized and efficient approach to managing commitments and goals.

1.6 Expected Output

Table 1.1: Expected Output

Expected Output	Description
Registration	The user need to register first before use the system.
Manage Commitment	The user can create new list of commitment. The user also can update the details of commitment or delete the commitment.
List of Commitment	The system will show the list of commitment based on the status of commitment, which is uncomplete status.

Mark as done	If the user successfully paid their commitment, the user can mark the commitment as done. And the list of commitment will update and show the list of uncomplete commitment.
Reminders and Notifications	The system can send reminders and notifications for users to keep them updated on upcoming deadlines and tasks.
Overdue List	Commitments that are overdue will be added to the list of overdue.
Reporting and Analytics	The application can provide reporting and analytics features that allow users to track their progress and identify areas where they need to improve.

1.7 Conclusion

This chapter provides an introduction to the Commitment Tracker system and discusses the problem statements that the system aims to solve. It also outlines the objectives and scope of the system, as well as its expected outputs. Finally, the chapter discusses the significance of the project in offering an innovative solution to a common problem and improving productivity and reducing stress levels.

CHAPTER 2: LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

This chapter provides a literature review and outlines the project methodology for the Commitment Tracker system. It highlights the system's focus on personal commitment management, the limitations of the existing manual system, and the techniques employed, such as digitalization, categorization, reminder notifications, and goal tracking. Agile has been selected as the project technique, with progressive development phases being focused.

2.2 Facts and findings

2.2.1 Domain

Commitment Tracker system is personal commitment management. It focuses on helping individuals organize and track their commitments on a monthly basis. The system aims to replace the manual system of writing commitments on paper with a more efficient and user-friendly digital solution.

Within this domain, the system covers several key aspects such as the system allows users to categorize their commitments into various categories such as cars, houses, utility bills, etc. This categorization helps users organize and manage their commitments effectively. Users can create, update, and delete their commitments within the system. They can provide the necessary details for each commitment, such as due dates, amounts, and descriptions. This feature enables users to maintain an accurate record of their commitments.

The system provides tools for users to set specific goals related to their commitments. Users can track their progress over due, monitor their performance, and

identify what they need to improve. Analysis charts are available to help users visualize their progress. To ensure that users stay on track with their commitments, the system will send notifications. Notifications help users remember upcoming deadlines and tasks.

The system keeps track of commitments that are overdue. It maintains a separate list of commitments that have not been fulfilled within the specified time frame. This feature allows users to easily identify and address overdue commitments. The system provides reporting and analytics features that allow users to generate reports and analyze their commitment progress.

The system differentiates between administrators and regular users. Administrators have additional privileges, such as creating and managing commitment categories, while regular users can manage their own commitments.

Overall, the domain of the Commitment Tracker system revolves around assisting individuals in effectively managing and tracking their personal commitments, providing goal setting, progress monitoring, notifications, and analysis chart to enhance commitment management and productivity.

2.2.2 Existing System

The manual system refers to the traditional approach of managing personal commitments without the assistance of a digital tool or system like the Commitment Tracker System. In the manual system, individuals rely on writing their commitments on paper and managing them through handwritten notes or lists.

In the manual system, individuals need to manually list their commitments on paper. They write down the details of each commitment, such as due dates, amounts, and descriptions. This process is likely to human error and can lead to data loss if the paper is misplaced or damaged. Since commitments are recorded on paper, there is a risk of losing the information if the paper is lost, damaged, or misplaced. This can ask the user being unaware of their commitments and failing to fulfill them on time.

Without a reminder system, individuals may easily forget about their commitments. The lack of reminder notifications or reminders increases the possibility of commitments becoming overdue or not being fulfilled. In the manual system, individuals need to rely on their own memory or manual reminders from the paper list to remind themselves of their commitments. This self-reminder process can be unreliable and easily overlooked, leading to missed deadlines or incomplete tasks.

Tracking progress and monitoring performance in the manual system can be challenging. Individuals need to manually review their paper lists to assess their progress and identify what they need to improve. The lack of analysis charts makes it difficult to visualize and analyze commitment progress effectively. With a manual system, individuals can only access their commitment information when they have the physical paper list at hand.

Overall, the manual system described in the report is characterized by handwritten commitment lists, the potential for data loss, dependence on self-reminders, difficulties in tracking progress, and limited accessibility. These limitations highlight the need for a digital solution like the Commitment Tracker system, which provides a more efficient, organized, and user-friendly approach to managing personal commitments.

2.2.3 Technique

Table 2.1: Technique

Expected Output	Description
Digitalization	Commitment Tracker system replaces the manual system of writing commitments on paper with a digital platform. By digitizing the commitment management process, the app eliminates the risks associated with data loss, improves accessibility, and provides a more organized and efficient way of managing commitments.

Categorization	This system allows users to categorize their commitments into different categories such as cars, houses, utility bills, etc. This technique helps users organize their commitments and provides a structured framework for managing and tracking different types of commitments.
Reminder Notifications	The system has notifications to help users stay on track with their commitments. These notifications can be sent through the system. By having notifications, the system ensures that users are aware of upcoming deadlines and tasks, reducing the chances of commitments becoming overdue.
Goal Setting and Progress Tracking	The system enables users to set specific goals related to their commitments and track their progress overdue. This technique helps users monitor their performance, stay motivated, and identify parts for improvement. Analysis charts provided by the system facilitate easy visualization and analysis of commitment progress.
Reporting and Analytics	Commitment Tracker system offers reporting and analytics features that allow users to generate reports and analyze their commitment progress. This technique enables users to gain insights into their performance, track trends, and make data-driven decisions to improve commitment management.
User-Friendly Interface	The system is designed to be simple and easy to use. This technique ensures that users can navigate the system smoothly and perform tasks related to commitment management with ease.

2.3 Project Methodology

This system will be developed using Agile Methodology.

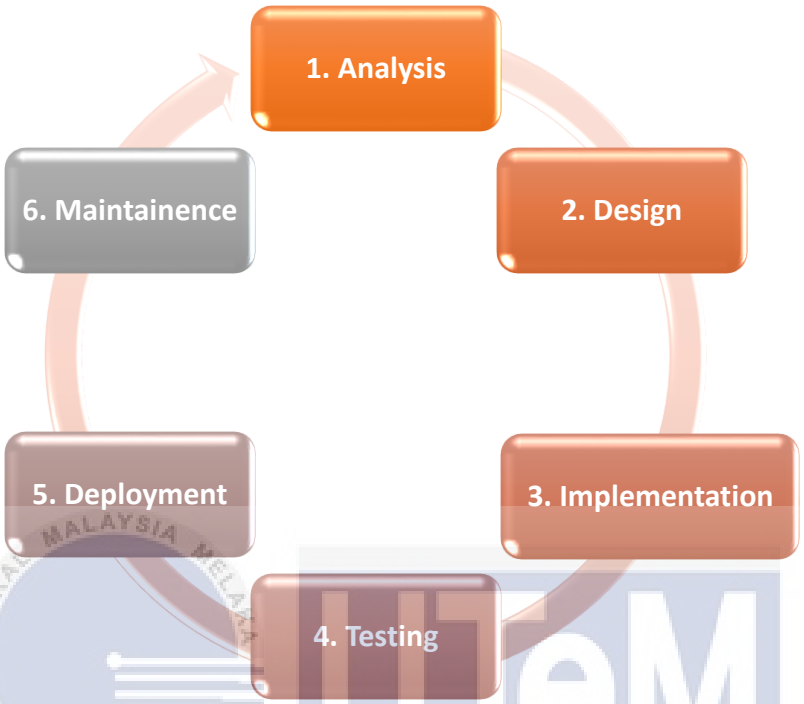

Figure 2.1: Project Methodology

The Agile Methodology consists of several phases. In the analysis phase, the project team gathers requirements and defines the system's objectives. During the design phase, they create the system's architecture and user interface. In the implementation phase, coding and development take place in iterative sprints. Testing ensures the system's functionality and quality. Deployment involves preparing the system for production and optimizing its performance. The maintenance phase focuses on ongoing support and enhancements. These phases enable continuous feedback, adaptation, and value delivery throughout the development process.

2.4 Project Requirements

2.4.1 Software Requirement

- **Development Tools**

    - Microsoft Word, Sublime Text 3 (PHP, HTML, CSS, JavaScript).

- **Server** – Windows, XAMPP

- **Database** – MySQL

2.4.2 Hardware Requirement

- Laptop

    - Processor- AMD Ryzen 5 3500U with Radeon Vega Mobile Gfx 2.10 GHz RAM – 12.0 GB

    - System type - 64-bit operating system, x64-based processor

- Smartphone