

SMART REMINDER



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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JUDUL : SMART REMINDER


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SMART REMINDER

LAU JUN NING



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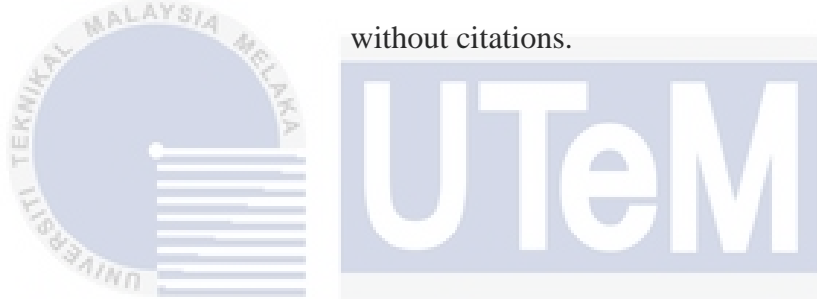
This report is submitted in partial fulfilment of the requirements for the
Bachelor of Computer Science (Software Engineering)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2017

DECLARATION

I hereby declare that this project report entitled
SMART REMINDER

is written by me and is my own effort and that no part has been plagiarized
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DEDICATION

This is dedicated to my beloved family, thank you very much for the unconditional supports with my studies. Thank you for giving me the chance to take my desired field of studies and provide me a chance to improve myself through the journey of my life.



ACKNOWLEDGEMENT

I would like to present my thanks and appreciation to Pn. Rosmiza Wahida Abdullah for giving assistants and advises throughout the whole semester to complete this project successfully. I have learned many things and gain a lot of knowledge under the guidance from her.

Finally, I must acknowledge as well everyone who directly or indirectly assisted, advised and supported me on doing this Final Year Project over the semester.



ABSTRACT

Smart Reminder is a native android application system that design for people who are easily forget task had to be done. It allows user being reminded on specific time which the task had to be done on time. It is some sort of life hack application which can help you to keep your promise on some task and remind you so that user will never miss another deadline. Besides, the simple and powerful user interface will let the user experience being enjoy to use this application. By simply create a reminder for each deadline and this application will do the work for you, meetings, birthdays will not be missed again, daily reminders that helps to remind user to keep notified. Smart Reminder considered smart because of it's features which is able to process the data from message notification which identify the text whether it is date or time and then suggest user to set a reminder on that particular time or date. The objective of this development is to provide a reminder to help user to get organized and keep reminded with notification and able to help user experience on an easy and procedure heavy-free application. The methodology to build on this development is waterfall model, because of its clear requirements that allow stages can be implemented stage by stage that help to schedule the whole project for Smart Reminder. Smart Reminder is a simple but useful application due to reminder natural behaviour on settling human problem which have limited memory.

ABSTRAK

Smart Reminder adalah sistem aplikasi android asli yang direka untuk orang yang mudah lupa tugas harus dilakukan. Ia membolehkan pengguna diingatkan pada masa tertentu yang tugasnya perlu dilakukan tepat pada masanya. Ini adalah sejenis aplikasi yang boleh membantu anda untuk memastikan janji anda dalam beberapa tugas dan mengingatkan anda supaya pengguna tidak akan terlepas tarikh akhir yang lain. Selain itu, antara muka pengguna yang mudah dan berkuasa akan membolehkan pengalaman pengguna menikmati menggunakan aplikasi ini. Dengan hanya membuat peringatan untuk setiap tarikh akhir dan permohonan ini akan melakukan kerja untuk anda, mesyuarat, hari ulang tahun tidak akan dilewatkan lagi, peringatan harian yang membantu mengingatkan pengguna supaya diberitahu. Smart Reminder dianggap pintar kerana ia ciri yang mampu memproses data dari pemberitahuan mesej yang mengenal pasti teks sama ada tarikh atau masa dan kemudian menyarankan pengguna untuk menetapkan peringatan pada masa atau tarikh tertentu itu. Objektif pembangunan ini adalah untuk memberikan peringatan untuk membantu pengguna untuk teratur dan terus diingatkan dengan pemberitahuan dan dapat membantu pengalaman pengguna mengenai aplikasi mudah berat dan prosedur bebas berat. Metodologi untuk membina pembangunan ini adalah model air terjun, kerana keperluannya yang jelas yang membolehkan peringkat dapat dilaksanakan tahap demi tahap yang membantu menjadualkan seluruh projek untuk Pengingat Pintar. Smart Reminder adalah aplikasi yang mudah tetapi berguna kerana mengingatkan tingkah laku semula jadi untuk menyelesaikan masalah manusia yang mempunyai memori yang terhad

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CHAPTER I

INTRODUCTION

1.1 Introduction

This chapter will discuss about the idea of Smart Reminder application. Smart Reminder is one of the most significant apps and needed by human nowadays. Massive event or activity data information which are date and venue will not be able to be memorized perfectly by human. As the number of reviews and rating on reminder apps shows how important of reminder apps are. By building a smart reminder apps that is different with classic traditional task reminder apps, it helps change the way of living and making human life easier by inserting and Intelligent searching function into this reminder apps. Manually inserting data information on the task is not needed for this application because of the intelligence of this apps.

1.2 Project Background

Smart Reminder is a reminder tool to allow user manage his timetable more orderly. Hence, result in more quality work and efficiency of producing best result. Human tends to forget special occasions or simply normal task that will happen in the future. This reminder apps will solve the problem of setting up reminder every time with complex procedure manually. Smartphone had been one of the most important gadget in nowadays because of communication of information and between humans, multitasking is one of the most common things happen around us. But what if we got

plenty of task had to be done all the time? That's why the idea having Smart Reminder is to solve this problem which manually setup reminder for a task is too complex and time consuming. Besides, human may make mistake by miss out the task to be setup to be reminded, this apps may intelligently asked user whether want to set a reminder for the task or occasion. It is very easy to use and helpful to minimize human effort along the time.

1.3 Problem Statement

There are three problems statement had been identified which are:

1. User forgot the task should had been doing by the time at certain place.

People with hectic life will forgot if he or she come across with plenty of event or task that had to be done in certain period. Even remember the date and time where the event was, people may forget the details of the event which is a disaster for business man.

2. Complex data inserting procedures that need control by users.

Typical reminder apps require a lot of information being keyed in by users and messy UI will probably cause impatient and tired of using the apps.

3. User having problem of forgetting adding the task to the reminder list

Reminder application typically would not suggest user to set a reminder for an event or occasion. This cause less efficiency of the product that users had to remind to set reminder, which is a big problem cause reminder apps tends to solve the problem remember to do something while users forgot to set reminder will result in ineffective of the product.

1.4 Objective

Objective of this project to be developed are:

- To create an alternative reminder apps that let the user easily being alarmed.

People tend to be forgotten some of the task in daily life when they had hectic or busy working days. Mass information traffic on mobile communication apps were exchange while some of them were important occasions or events that must be attend on time. This application provides an alternative reminder apps besides than manually old fashion reminder apps.

- To create a reminder apps that are not complex in terms of graphics and functionality.

Classic reminder apps require heavy and complex input from user in order to set a reminder on a specific task. Simple UI and user-friendly way of input method simplify the stressful and bored procedure.

- To create a reminder apps that will automatically add task into reminder list by after processing the related data inside smart phone and decide by itself.

Even with reminder application installed in the smartphone, users may lose focus on specific chat group which maybe receive an event invitation but forgot to set a reminder for that event in the smartphone.

1.5 Scope

The project scopes are divided into two categories which are:

i. Users

The user of this system application include people who have smartphones as a medium to control and monitor daily task and usually use communication application such as WhatsApp, Facebook Messenger as communication tools to get information on events to be attend.

ii. Functionality

There are a few functionalities in Smart Reminder Application including set remind function for the task or event. It also has task calendar which user can monitor and manage the task that had to be done to be shown in smart calendar UI. Besides, it had on functionality that can categorized this reminder application onto Intelligence. That is Smart Reminder able to process mass data from the communication application and define the date or day or time which will suggest user whether want to set reminder for that action or the date.



1.6 Project Significance

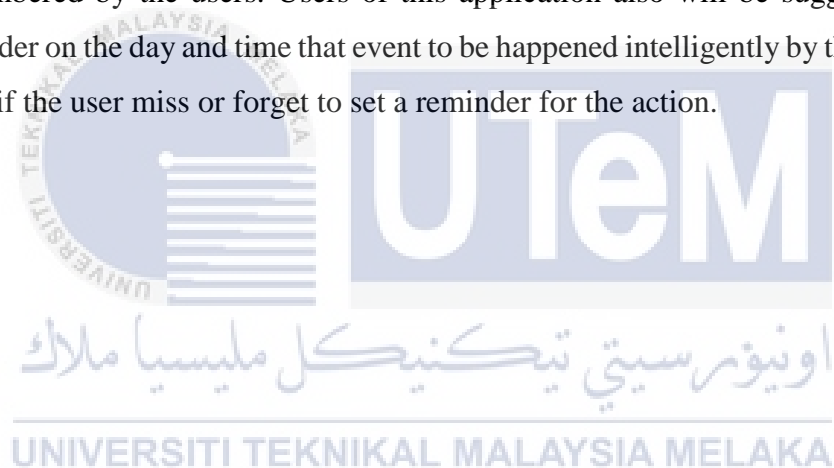
This project may look not as significant as other applications but it eventually may help increase productivity of a person because of its intelligence behavior to simplify the messy procedure on setting up a reminder and without forgetting all of the task had to be done at a specific time. This product may reduce time on doing a thing compare with service provided by other reminder applications.

1.7 Expected Output

This application is able to set reminder on the smart phone for specific event or task without any effort in order to result being remind on time where the event is being held. This application also able to suggest users whether to set a reminder on a date, time or day by processed the information intelligently when information system about the key word being found.

1.8 Conclusion

Smart Reminder application can solve the problems and achieve the objectives in providing a reminding service on specific task in order to have task being remembered by the users. Users of this application also will be suggested to set a reminder on the day and time that event to be happened intelligently by this application itself if the user miss or forget to set a reminder for the action.



CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

From previous chapter, overall description of problem statements and objective of the project had been stated. The project will develop a reminder application to help user manage every important task without missing any event and get reminded on time and it must be intuitive to use and effortless while learn to use. In this chapter, literature review and methodology used to develop this project will be included. Besides, comparison with some of the reminder application occurred in the market are also in this chapter.

2.2 Facts and findings

This section is mainly focus on literature review on the technology will be used and the existing systems and the technique that has been done by pass researchers. For this project, many decisions on which technology and software were chosen based on certain research has been done.

2.2.1 Domain

Domain of the project will be discussed and literature review on the technology that evolved from scratch to the technology used will be included.

Domain for this project is to develop a mobile application that can help those who tend to be easily forgotten daily task. Historically, people remind themselves manually which means by taking a small notebook at his sides, and write down the task that should be done in following days or weeks. It does not say's that using small notes to remind is a wrong way but thinking to be more convenient if got a kind of application that helps do the reminding works without carrying pen or books were there to save human a lot of mess. As communication theory and technology been growing, innovation and invention of mobile phones change from basic mobile phones to smart phones. People define smart phones as a kind of smart devices that serve plenty of capabilities to meet huge needs and able to customized or specialized application to fulfil a user's computing and connectivity needs. Smart phones are all about connectivity, it does not set boundary on connecting one with another, it also connects user and the mobile phone together by having application or function that able to solve daily needs which eventually will connect surroundings to you just like a real assistant.

2.2.1.1 Smart

In this subsection, some findings about 'smart' with regard to Natural Language Processing were written. According to Oxford Dictionary (smart): Smart - (of a device) programmed so as to be capable of some independent action. Based on the definition stated, smart device is able to do some independent action or job in order to help human towards a better life. The device can be considered as intelligent agent where it takes action and mimics human action in problem solving. By only creating a notification by itself automatically sounds not as smart as it works, but with Natural Language Processing technology and algorithm, the device will work well as an intelligent agent. Chowdhury (2003), says that Natural Language Processing (NLP) is an area of research that explores how computers can be used to understand and manipulate natural language text to do useful things. NLP aim to gather knowledge on how human understand and use language so that appropriate tools and techniques can be developed to help computer understand what human natural language to perform desired tasks.

In 2001, Liddy stated that Natural Language Processing is a theoretically motivated range of

computational techniques for analysing and representing naturally occurring texts at one or more levels of linguistic analysis for the purpose of achieving human-like language processing for a range of tasks or applications. Which means NLP technology able to understand what human language are by giving enough human natural language sample by learning the pattern and structure of the sentences, it can exploit the intention and entities of the sentences just like we human does. With that information and intelligent which machine learnt, developers can make use of those information and perform more detail task and help in developing many useful systems.

2.2.1.2 Reminder application

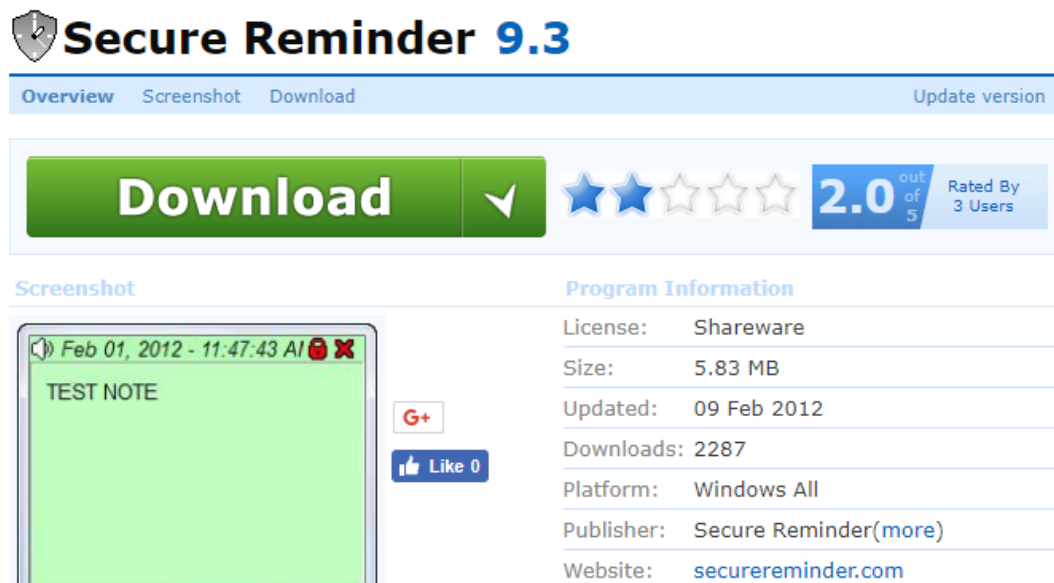
Reminder application is suitable for busy people or someone who tends to forget work had to be finished. Writing them down on a piece of paper is troublesome and bad idea because of keeping track on that piece of paper is hard. Reminder application supposed to let user set and forgot the work and then get remind by this application when times is up. The importance of this application is that attributes needed to remind such as birthdays, anniversary, business meetings as well as simple gathering were able to registered into reminder application where attending those events on time will reflect the personalities and attitude of that user which are important from time to time. There are wide range of field which reminder application can be working on, but usually reminder application developed in mobile platform because reminder should be personal, close to user anytime and event could be registered immediately. Android is open source platform that provides service with information without collecting license fees this make mobile application growth to become more user friendly and effective variety of application. This aspect changes old fashion type of reminder application on android. Although reminder application is just a simple application which function as reminding people on the task and user after creating reminder for the daily task and forget about them. Due to mass amount of reminder application available in apps store or internet nowadays, details on the features of the reminder application become very important. Social networking sites such as Facebook have reminder algorithm and function but people still not satisfied with what social network can do that is why reminder application on smart phones which able to ease out our memories are needed.

When software become more high level of complexity on its functionality, details will decide which are the winner is. Listing all upcoming events like Birthday, showing the list that user had registered, contact reminder system which function in user could directly select contact person from Contact List to set on that user has to send the reminder to. Of all the features that had been stated above, it only focused on one goal, which aim for easy to use, user friendly, accurate as well as precise and most importantly is automatic. Automatic features that mention here is like the attribute Contact reminder system. User do not have to manually type in the contact person detail and phone number of the person user want to send the reminder to, with Contact Reminder System, user can just tap on the contact person on the contact list showed up and the contact person will be registered into the list that user want to send the reminder to when times come.

2.2.2 Existing System

Before continue on the next section, research on this domain has reveal three existing systems has been studied. These three reminder applications are Secure Reminder, Life Reminder and Reminder. Three of them are reminder application that occur in the market. So, comparison between will be made among of them.

Home » Windows » Business & Finance » Personal Info Managers » Secure Reminder



Secure Reminder 9.3

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Screenshot

Feb 01, 2012 - 11:47:43 AM

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Program Information

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Size: 5.83 MB

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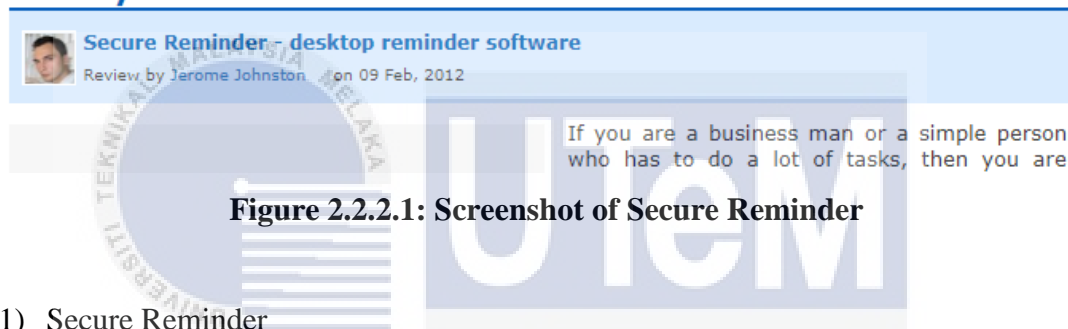
Downloads: 2287

Platform: Windows All

Publisher: Secure Reminder([more](#))

Website: securereminder.com

FindMySoft Editor's Review



Secure Reminder - desktop reminder software

Review by Jerome Johnston on 09 Feb, 2012

If you are a business man or a simple person who has to do a lot of tasks, then you are

Figure 2.2.2.1: Screenshot of Secure Reminder

1) Secure Reminder

Secure Reminder is a desktop software and scheduler program for Windows. It is an advanced Reminder application that helps someone organize their life into order. Secure reminder remind user on daily task until special dates or events such as birthday or anniversary before they occur. Secure reminder provide service as task and event scheduler, personal information organizer and password generator. Main features of this application software are that this reminder store and manage information quickly in a safe and secure environment and it's search features also one of the highlight.