# SOFTWARE REQUIREMENTS SPECIFICATION (SRS) Remindee

For:

Worker and Student

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## 1. Introduction

## 1.1 Document Writing Purpose

This document is an SRS (Software Requirements Specification) for application reminder and lock. This document is designed as reference material for the development of a reminder application as well as an application lock. The purpose of writing this document is to provide an explanation of the software to be built, both in the form of a general description as well as a detailed and thorough explanation. The purpose of this project is to support user productivity and encourage users to continue to be productive.

## **1.2** Product Scope

The software that we will produce is software that has a function for task reminders or user obligations as well as being an app locker for several selected applications from the user. In addition, our product also provides a to do list feature and statistics on what application are often opened by users.

#### **1.3** Document Convention

Software Requirements Specification is a document specification of software requirement to be developed. This document is used by software developer as technical reference for software development at next stages.

Use Case Diagram is a diagram that works by describing the typical interaction between users of a system with a separate system through a story of how a system is used. It consists of an actor and the interactions perform, these actors can be humans, hardware, other system or those that interact with system.

Entity Relationship is the main data modeling tool and will help organize data in a project into entities and define relationships between entities. The process allows analysts to generate database structures that can be stored and retrieved efficiently.

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#### 1.4 References

This document refers to the results of interviews and interviews and observations of owners of information related to various needs that include general data. The writing of this document is based on:

- 1. Jurnal Khatulistiwa Informatika, Vol.IV, No.2 Desember 2016 (Rancang Bangung Sistem Informasi Permintaan ATK Berbasis Intranet), Oleh Eka Wida Fridayanthie dan Tias Mahdiati.
- 2. Jurnal Spesifikasi Kebutuhan Perangkat Lunak (SKPL) (Sistem Informasi Ujian Harian SMK Negeri 2 Singosari), Oleh Lugas Anegah Bahalwan, Universitas Negeri Malang.
- 3. Jurnal TIKAR Volume 1. No. 2, Juli 2020 (Perancangan Sistem Aplikasi Pemesanan Makanan dan Minuman pada Cafetaria No Caffe di Tanjung Balai Karimun Menggunakan Bahasa Pemrograman PHP dan MYSQL), Oleh T.Bayu Kurniawan, Alumni dan Syarifuddin, Dosen Prodi Teknik Informatika, Universitas Karimun.

# 1.5 General Description

SRS document is divided into 6 main sections. The first part of this document describes in detail the SRS document that we created, including the objectives, product scope, documents conventions, references, and an overview of the document itself. The second part, we describe an overview of our product in detail starting from the product perspective, product functions, user classes and characteristics, operating environment, design and implementation constraints, user documentation and assumptions and dependencies.

The third part, we explain about the interface the application has, starting from user interface, hardware interface, software interface and communication interface. Then in the fourth part we describe the features of this application using a use case diagram and the scenario. In the fifth section we list non-functional requirements for our applications such as performance, safety, security requirements, as well as other software quality attributes. In the last section we describe other requirements that are not covered in this skpl document.

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# 2. Overall Description

## 2.1 Product Perspective

Remindee is a reminder application that is used to support productivity. This application provides users with some features like reminders of tasks, important days like birthdays and anniversaries, and an integrated to-do list.

There are several reasons why making a reminder app is more popular with people in modern times like now because people tend to forget important tasks and important dates. Remindee application is a web-based application built for people who want to create a to-do list and be reminded on when the deadline is going to be with the added bonus of being to send reminders to other people via email.

#### **2.2** Product Function

The functions of these apps are:

- 1. Provides a to do list feature with details for inputting the task name, task description (optional), and the deadline for the task/activity.
- 2. Provides an app that can remind users important days or dates related to them i.e., birthday, anniversary, etc.
- 3. There will be notification when user completed some tasks from their task lists. After all tasks have finished, the app will notify the user that no more tasks to complete.
- 4. There is a Statistics feature to monitor how long the user has been opening this app and tasks they do (Premium users only).

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# 2.3 User Class and Category

User Category	Task	Access Item
Free User	- Create a task list - Input up to 5 reminders per week - No Statistic feature	Gain access to create task list and remind up to 5 tasks or events.
Premium User	- Create a task list - Input unlimited reminders to the app	Gain access to create task list without any maximum locked app and can view analytics.
	-Set up reminders freely	
	-Setting up a timer to count how long it takes to finish an assignment.	
	-Statistic feature to show user the time to finish the tasks.	
Admin	- Transferring Free User to the Premium User after they successfully login to the App using their created account.	Gain access to transform a "Free User" into a "Premium User".

# **2.4** Operating System Environment

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The software that we will develop can be operated on websites.

# 2.5 Design and Implementation Limitations

The limitations of this application are as follows:

- 1. This application can only be used on the website.
- 2. This application requires an internet connection.

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- 3. This application can only open 1 account in 1 device.
- 4. To run the key features such as reminders and to-do lists, the application must first obtain permission from the user.
- 5. For Free users, the application can only set up a maximum of 5 tasks or events.
- 6. To get the Premium benefit, the user needs to login using an email account.

#### 2.6 User Documentation

Hotline - 081368290738 Web Service - https://www.citylockit.com WhatsApp - 081368290738 Instagram - CityLock.it

## 2.7 Assumptions and Dependencies

#### Assumptions:

- 1. The application can only be run on a website.
- 2. Free User can create reminders up to 5 tasks or events.
- 3. The system upgrades to premium after signing up and applying for an upgrade to an admin.

#### Dependencies:

- 1. The system must be connected to the internet.
- 2. The system requires permission from the user to perform its functions fully.
- 3. Users do not need to have an account to use the Remindee application but only as a free user.

# 3. Requirements External Interface

#### 3.1. User Interface

The Remindee application provides several interfaces to make it easier for users to operate it, including an initial screen containing the choice of whether to log in using an existing account or a new list. Then there is the homepage display that provides various menus such as to do lists, reminder notifications, a timer, statistics (for premium users), and a calendar.

In the to do list menu, users can enter any tasks and their deadlines. In the app lock menu, users can enter any application they want to lock when the app lock is activated. In the shop menu, users can buy various kinds of furniture or decorations that can be used to decorate the homepage to make it more beautiful.

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In addition, users can also upgrade into premium features to unlock features that are only available to premium users. The statistics menu is a special feature for premium users that serves to see how long an application has been used and also to activate a reminder whether the user has been productive or not.

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#### 3.2. Hardware Interface

The Remindee application will be connected to the server because the data that will be received from the user will be entered into the cloud online. The Remindee application is also associated with the CPU, memory, and hard disk on the user's device to access the Remindee application.

#### **3.3.** Software Interface

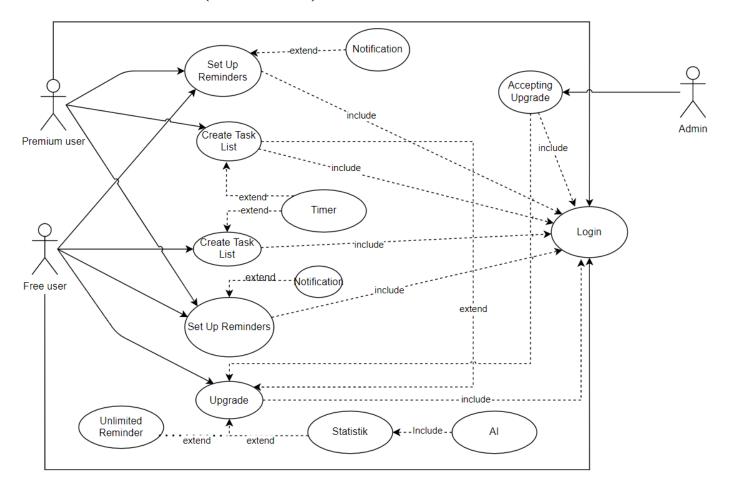
Because the Remindee application will be used on a website then it must communicate with the browsers used and also communicate with the IP network protocols.

#### 3.4. Communication Interface

To access the Remindee application, users must use the internet network.

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# 4. Fitur Sistem (Use Cases)



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## **4.1.** Use Case 1

	Identification
Number	Req 100
Name	Login
Goal	Accessing User Account
Description	User inputs the email and password, then the program enters the account
Actor	Free User, Premier User
	Main Scenario
Initial Condition	No account used yet
Actor Action	System Response
1. Input Email	1. Validates email and password
2. Inputs Password	
Final Condition	Successfully enters the user's account.

### **4.2.** Use Case 2

Identification		
Number	Req 110	
Name	Sign Up	
Goal	Making a new account	
Description	The user is able to make a new account to then use.	
Actor	Free User, Premier User	
	Main Scenario	
Initial Condition	The user does not have an account	
Actor Action	System Response	
1. Inputs Email	1. Keeps email and password	
2. Inputs Password	2. Sends email verification	
3. Verifies Email		
Final Condition	Successfully created a new account	

# **4.3.** Use Case 3

Identification		
Number	Req 200	
Name	Set Up Reminders	
Goal	Reminding the User	
Description	The application reminds the user to do their tasks, limited to only 5	
Actor	Free User	

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	Main Scenario	
Initial Condition	No notifications sent	
Actor Action	System Response	
	1. Setting up a reminder	
Final Condition	The user has set up a reminder	

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## 4.4. Use Case 4

Identification		
Number	Req 210	
Name	Create Task List	
Goal	Writes down the user's tasks	
Description	The application inputs what the user 's tasks are	
Actor	Free User, Premier User	
	Main Scenario	
Initial Condition The application does not keep the user's task		
Actor Action System Response		
1. User inputs what the tasks are	1. Keeps the tasks that have been input.	
Final Condition	The application keeps the user's task	

## 4.5. Use Case 5

Identification		
Number	Req 300	
Name	Timer	
Goal	To keep track of how long it takes for the user to complete a task	
Description	The User is able to start and stop the timer meant to keep track of how much time has passed.	
Actor	Free User, Premier User	
	Main Scenario	
Initial Condition	The timer has not started	
Actor Action	System Response	
1. User clicks on the "start timer" button	1. Starts an internal timer	
Final Condition	The application displays a timer that has been started	

## 4.6. Use Case 6

Identification		
Number	Req 310	
Name	Unlimited Reminders	
Goal	To provide unlimited reminders to the user	
Description	The Remindee Application sets up unlimited amounts of reminders	

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Actor	Premier User		
	Main Scenario		
Initial Condition	No Reminders are set yet		
Actor Action	System Response		
1. User adds a new reminder	1. Sets up an unlimited amount of reminders		
Final Condition	The application has set a reminder for the user		

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## **4.7.** Use Case 7

Identification		
Number	Req 311	
Name	Notifications	
Goal	Sends notifications to the user.	
Description	The Application sends a notification to the user that a reminder's deadline is almost up.	
Actor	Free User, Premier User	
	Main Scenario	
Initial Condition	No notifications are sent	
Actor Action	Actor Action System Response	
<ol> <li>The application detects that a reminder's deadline is almost up</li> <li>The application sends a notification to the user about the deadline.</li> </ol>		
Final Condition	The user is notified by the notification.	

## **1.1** Use Case 8

Identification		
Number	Req 320	
Name	Accepting Upgrade	
Goal	To upgrade the user status	
Description	The user signs up to upgrade their account. The user account will then be updated to a "Premium User".	
Actor	Free User	
	Main Scenario	
Initial Condition The account is still a "Free Account"		
Actor Action System Response		
1. User logs in to an account	1. User sends the upgrade request to an admin	
2. User requests an account	2. The admin approves	
upgrade	3. Changes user account into premium.	
Final Condition	The account is now a "Premium Account"	

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# **1.2** Use Case 9

Identification			
Number	Req 400		
Name	Statistics		
Goal	Shows the statistics of application usage		
Description	The system will show the application history from the user and shows the usage of the application.		
Actor	Premium User		
	Main Scenario		
Initial Condition	The statistics are still empty		
Actor Action	Actor Action System Response		
1. User presses the button accepting that the system will still work under the screen and watch the activity of the user	<ol> <li>Watches the activity of the application</li> <li>Make statistics with the usage data that is obtained</li> </ol>		
Final Condition	The statistics are filled		

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# 5. Nonfunctional Requirements

# **5.1 Performance Requirements**

- i. Remindee validates email and password in less than 3 seconds.
- ii. Remindee processes the premium upgrade transaction in less than 10 minutes.

# **5.2 Safety Requirements**

iii. Remindee will ensure the discretion of information given to the application by the user.

# **5.3 Security Requirements**

- iv. Remindee only can send emails to other person if the person sending has given their data.
- v. Remindee guarantees the security of account passwords from users
- vi. Remindee ensures the security of user activity data
- vii. Remindee can only send out notifications if authorized by the user.

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# **5.4 Other Software Quality Attributes**

- Remindee can run in the background
- Remindee was made with Python language

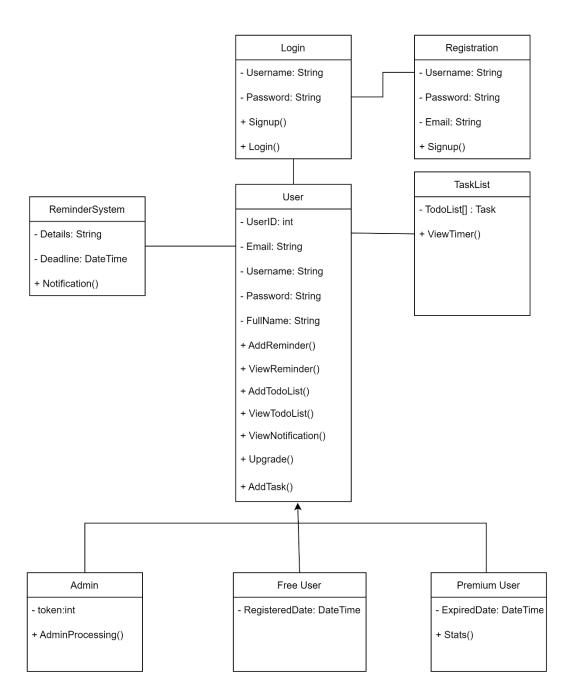
# 6. Other Requirements

# Lampiran A: Glossary

List of Words	Description
Statistics	Application usage data visualized using graphs
To do list	User-owned notes or to-do lists
Server	A computer system that has special services in the form of data storage
Cloud	a digital storage media that can store our data that can be accessed anytime and anywhere via the internet
CPU	CPU, which stands for Central Processing Unit, is a hardware component
Memory	Memory is storage media on devices such as smartphones, computers, etc.
Hard disk	Hardware that serves to store data on a smartphone permanently.
JavaScript	JavaScript is a programming language for creating applications, web, etc.

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# Lampiran B: Analysis Models-



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# **Lampiran C: Functional Requirement**

Nomor	Requirement	
Req-001	Remindee validates email and password to login	
Req-021	Remindee saves the account	
Req-002	Remindee can lock application	
Req-003	There is a to-do list feature in the Remindee application	
Req-004	There is a Lockit city homepage editing feature	
Req-014	There is a shop feature	
Req-005	Remindee can monitor how long an app is used	
Req-015	There is a feature to display the statistics of the application used	
Req-006	Can display ads for free users	
Req-025	Remindee can provide notifications	
Req-055	Remindee features additional features for pro users	

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