# **DPPL-Remindee**

## **SOFTWARE DESIGN DOCUMENTS**

## Remindee

#### For:

Online Based Reminder System Software

# Prepared by:

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Informatics Study Program
Faculty of Informatics

Jl. Telekomunikasi 1, Dayeuhkolot Bandung



# Prodi S1- Informatics Telkom University

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by

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## 1. Introduction

#### 1.1 Document Writing Purpose

This document contains an explanation of the use and writing of a Software Design Description (DPPL) document with an Object-oriented design approach. This document will further use the term DPPL.

The description set forth in this document is used as a reference in writing the DPPL. This document was created to assist in making software specifications that will be developed with object-oriented design. In principle, the results of the analysis of software systems with this design are described as a set of processes that are organized hierarchically. These processes communicate with each other through a data flow path. This SKPL document was written to fulfil the assignment of the Software Design Analysis course.

This SKPL document contains software specifications regarding the owner of buying an online-based vacation package. The users of the software are the general public, with the aim of simplifying the process of buying and selling holiday packages from the conventional system to a computerized system. So that the owner's process of buying vacation packages can take place more effectively and easily.

### 1.2 Problem Scope

The problem scope with this SRS is:

- 1. This website is called "Remindee"
- This software can create reminders, creating task lists, displaying a timer, notifies if there is a deadline coming up, calculating whether the user is doing their reminders and using AI to determine whether they are productive or not.
- 3. The target audience for this software is people in general who like to have reminders on what they are going through in life, but specifically for students who are more likely to encounter tasks and homework.

#### 1.3 Terms and Definition

#### 1. Admin

Admin is an object where the process of upgrading an account takes place, and also to moderate the upgrade requests coming in.

#### 2. User

User is an object that signs up, has control of the account, uses the features provided by the application such as creating to d list, creating reminders, etc.

#### 3. DPPL

A software representation a representation of a software design that is to be used for recording design information, addressing various design concerns, and communicating that information to the design's stakeholders.

#### 4. SKPL

Is a specification of the software that will be developed.

#### 5. DBMS

The Database Management System is an organizing system and a data maintenance system for the application

#### 6. HTML

The Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser.

#### 7. JavaScript

A Programming Language that is object based and is made up of components named "class". These classes are composed of methods that do work and returns the information related.

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#### 1.4 Reference

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 Systematic Discussion

This document contains a description of the software design that is made using an object-oriented approach. This document will explain the design description of the system, including data description, data dictionary, physical decomposition of the module, detailed description of the module and interface design of this system. This document describes all the physical forms of the application journey so that users can understand about the My Vacation application. So that a description is obtained according to the needs of the software made.

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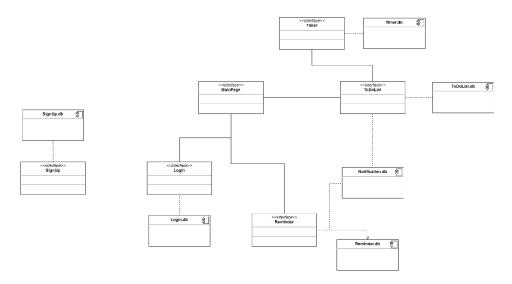
# 2 Description of Global Design

## 2.1 Implementation Environment Design

TIKET LIBURAN ONLINE	SPESIFIKASI	
Browser	Any browser	
DBMS	MySQL	
Development tools	Visualparadigm online, draw.io, Figma, Visual Studio Code, Tailwind, NextJS, Postman, phpMyAdmin	
Programming Language	Html, CSS, JavaScript, TypeScript	

## 2.2 Architectural Description

This is the architectural description of Remindee application:



## 2.3 Component Description

No	Components	Explanation
1.	Login	Menu to login to gain access to more features
2.	Admin	Moderator of the website
3.	Free User	User of the website
4.	Premium User	User of the website
5.	Create Task List	Menu to create task lists
6.	Set Up Reminders	Menu to create reminders
7.	Unlimited Reminders	Feature to create unlimited reminders
8.	Notifications	Feature that notifies the user
9.	Upgrade	Menu to upgrade the account
10.	Accepting Upgrade	Menu to moderate accounts not upgraded yet
11.	Statistics	Menu to look at the statistics when using the website
12.	Timer	Menu to display a running timer

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## 3 Detailed Design

In the detailed design chapter, it will be explained about use case realization, detailed class design, overall class diagram, algorithm/query, state chart diagram, interface design, and class persistence representation design.

#### 3.1 Use Case Realization

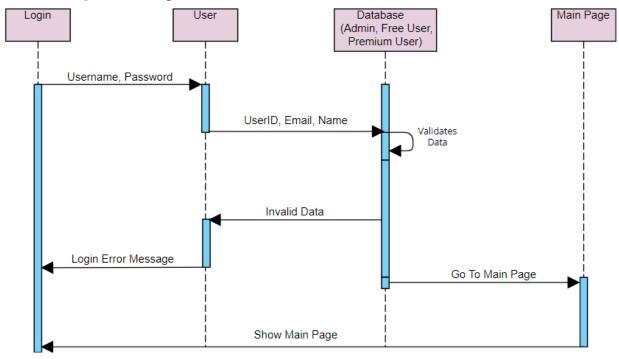
This section describes the realization of all use cases that have been designed in the software requirements specification document.

#### 3.1.1 Use Case Login

#### 3.1.1.1 Class Identification

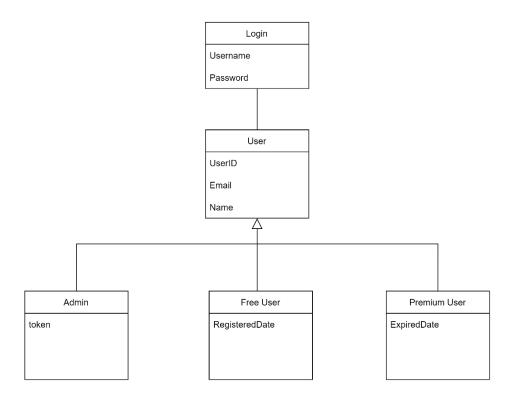
No	Class Design Name	Class Type
1	Login	Login
2	User	User
3	Admin	Admin
4	Free User	Free User
5	Premium User	Premium User

#### 3.1.1.2 Sequence Diagram



## 3.1.1.3 Class Diagram

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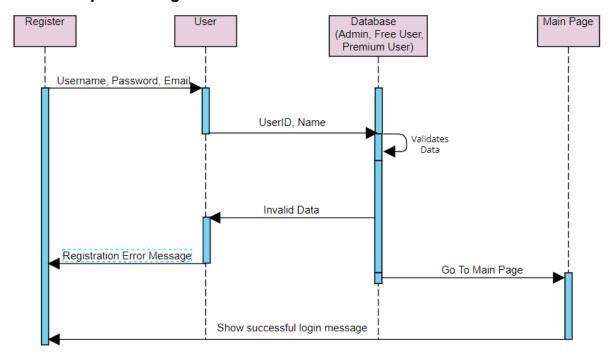
## 3.1.2 Use Case Sign Up

#### 3.1.2.1 Class Identification

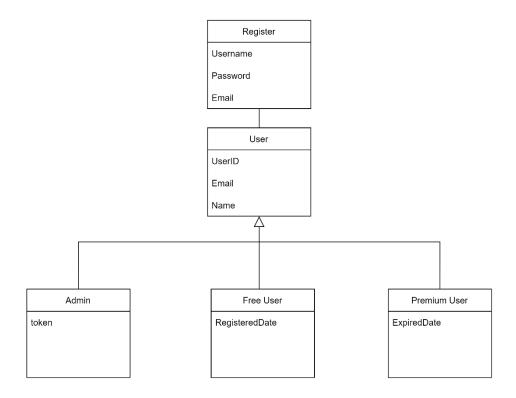
No	Class Design Name	Class Type
1	Register	Register
2	User	User
3	Admin	Admin
4	Free User	Free User
5	Premium User	Premium User

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## 3.1.2.2 Sequence Diagram



#### 3.1.2.3 Class Diagram



## 3.1.3 Use Case Set Up Reminder

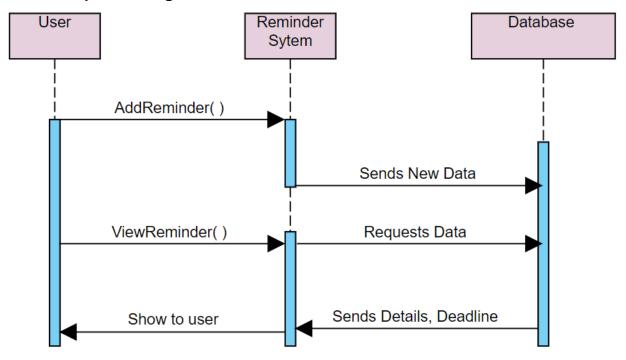
#### 3.1.3.1 Class Identification

No	Class Design Name	Class Type

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1	User	User
2	ReminderSystem	ReminderSystem

## 3.1.3.2 Sequence Diagram



## 3.1.3.3 Class Diagram



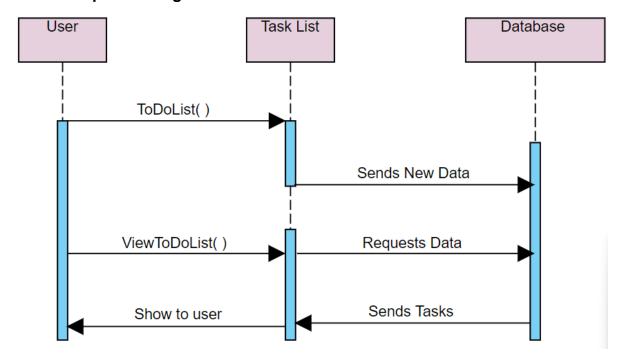
#### 3.1.4 Use Case Create Task List

#### 3.1.4.1 Class Identification

	No	Class Design Name	Class Type
	1	User	User
Ī	2	TaskList	TaskList

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## 3.1.4.2 Sequence Diagram



## 3.1.4.3 Class Diagram



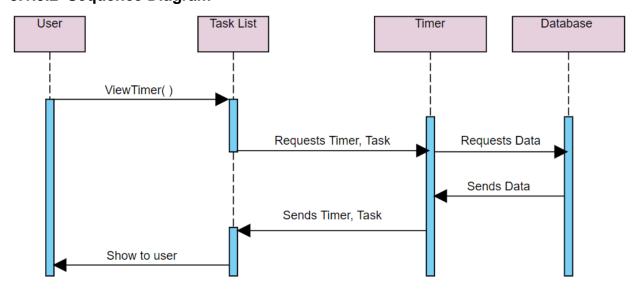
#### 3.1.5 Use Case Timer

#### 3.1.5.1 Class Identification

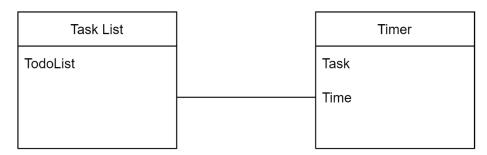
No	Class Design Name	Class Type
1	Timer	Timer
2	TaskList	TaskList

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## 3.1.5.2 Sequence Diagram



## 3.1.5.3 Class Diagram



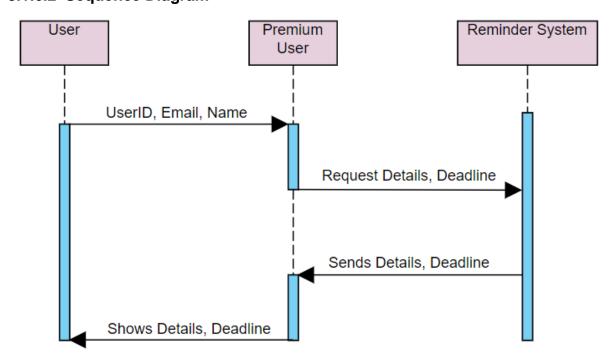
#### 3.1.6 Use Case Unlimited Reminders

#### 3.1.6.1 Class Identification

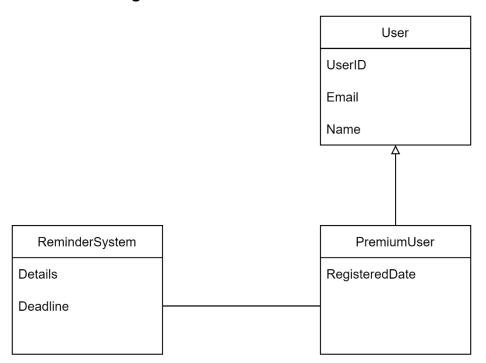
No	Class Design Name	Class Type
1	User	User
2	ReminderSystem	ReminderSystem
3	PremiumUser	PremiumUser

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## 3.1.6.2 Sequence Diagram



## 3.1.6.3 Class Diagram



### 3.1.7 Use Case Notifications

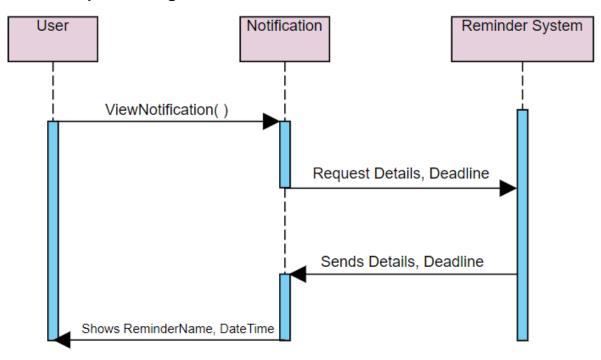
#### 3.1.7.1 Class Identification

No	Class Design Name	Class Type

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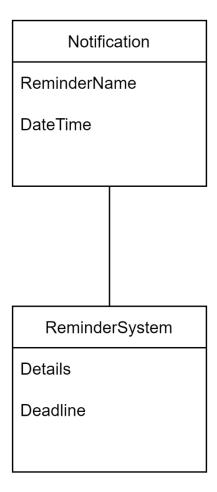
1	Notifications	User
2	ReminderSystem	ReminderSystem

## 3.1.7.2 Sequence Diagram



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## 3.1.7.3 Class Diagram



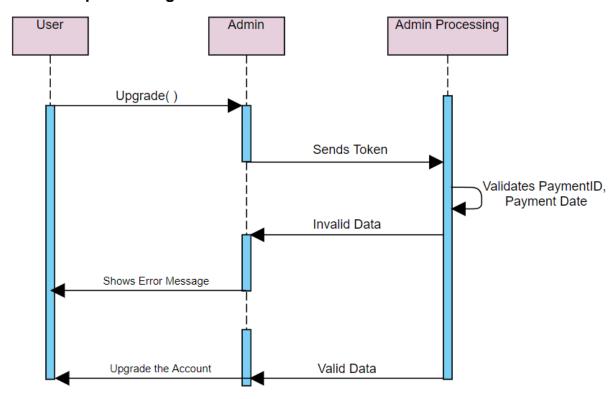
# 3.1.8 Use Case Accepting Upgrade

#### 3.1.8.1 Class Identification

No	Class Design Name	Class Type
1	Admin	Admin
2	AdminProcessing	AdminProcessing

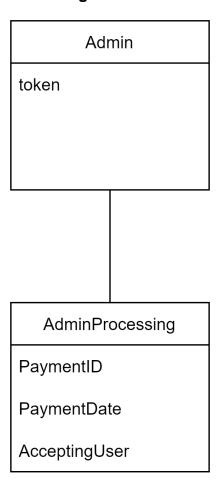
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## 3.1.8.2 Sequence Diagram



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## 3.1.8.3 Class Diagram



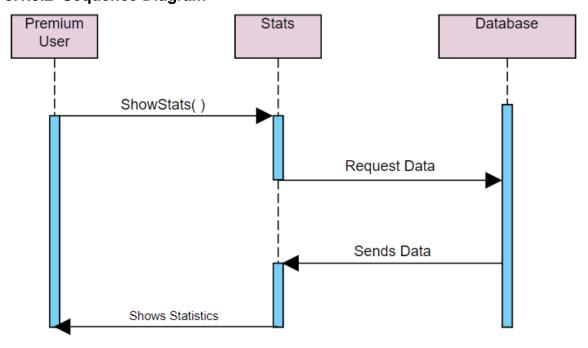
#### 3.1.9 Use Case Statistics

#### 3.1.9.1 Class Identification

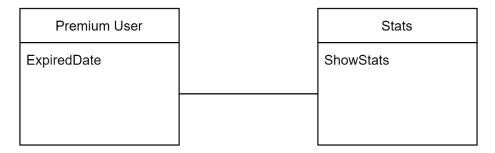
No	Class Design Name	Class Type
1	PremiumUser	PremiumUser
2	Stats	Stats

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## 3.1.9.2 Sequence Diagram



## 3.1.9.3 Class Diagram



## 3.2 Class Detail Design

This section is filled with a list of all classes in the following table:

No	Design Class Name	Related Analysis Class Name
1	Login	Login
2	Registration	Registration
3	User	User
4	Admin	Admin
5	PremiumUser	PremiumUser
6	FreeUser	FreeUser
7	ReminderSystem	ReminderSystem
8	TaskList	TaskList

## 3.2.1 Class Login

This section is filled with a list of operations and attributes for each class.

Class Name : Login

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Operation Name	Visibility (private, public)	Description
Signup()	Public	Go to registration / sign-up page
Login()	Public	Login to the app
Attribute Name	Visibility (private, public)	Туре
Username	Private	String
Password	Private	String

## 3.2.2 Class Registration

This section is filled with a list of operations and attributes for each class.

Class Name : Registration

Operation Name	Visibility (private, public)	Description
Signup()	Public	Register the user to the app database
Attribute Name	Visibility (private, public)	Туре
Username	Private	String
Password	Private	String
Email	Private	String

## 3.2.3 Class User

This section is filled with a list of operations and attributes for each class.

Class Name : User

Operation Name	Visibility (private, public)	Description
AddReminder()	Public	Go to reminder page to add the reminder
AddTask()	Public	Go to Task List and see the task list or add task list
ViewReminder()	Public	Go to reminder page to view reminders
AddToDoList()	Public	Add a new to do list
ViewToDoList()	Public	View the to do list
ViewNotification()	Public	View the notifications sent
Upgrade()	Public	Request an account upgrade
Attribute Name	Visibility (private, public)	Туре
UserID	Private	Int

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Email	Private	String
Username	Private	String
Password	Private	String
FullName	Private	String

#### 3.2.4 Class Admin

This section is filled with a list of operations and attributes for each class.

Class Name : Admin

Operation Name	Visibility (private, public)	Description
AdminProcessing()	Public	Process the request of premium access of user that login to our app
Attribute Name	Visibility (private, public)	Туре
Token	Private	Int

#### 3.2.5 Class Premium User

This section is filled with a list of operations and attributes for each class.

Class Name : Premium User

Operation Name	Visibility	Description
	(private, public)	
Stats()	Public	Show statistics of the users to the
		screen
Attribute Name	Visibility (private, public)	Type
ExpiredDate	Private	DateTime

#### 3.2.6 Class Free User

This section is filled with a list of operations and attributes for each class.

Class Name : Free User

Operation Name	Visibility (private, public)	Description
Attribute Name	Visibility (private, public)	Туре

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RegisteredDate	Private	DateTime

# 3.2.7 Class ReminderSystem

This section is filled with a list of operations and attributes for each class.

Class Name : ReminderSystem

Operation Name	Visibility (private, public)	Description
Notification()	Public	Notify the user about the reminder that has been set up before
Attribute Name	Visibility (private, public)	Туре
Details	Private	String
Deadline	Private	DateTime

#### 3.2.8 Class Task List

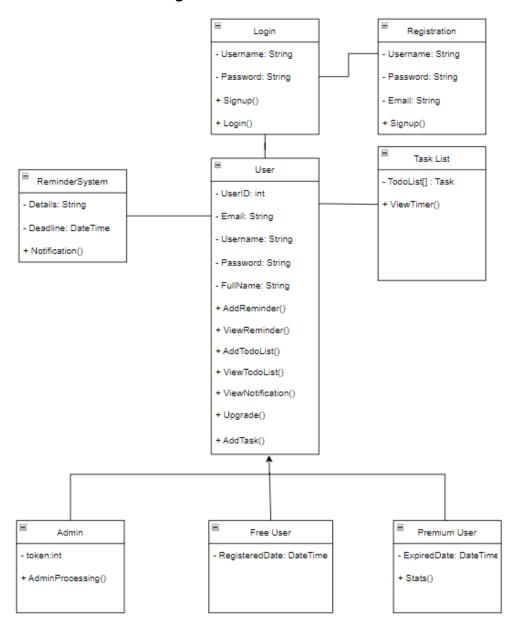
This section is filled with a list of operations and attributes for each class.

Class Name : Task List

Operation Name	Visibility (private, public)	Description
Timer()	Public	Set the timer to the tasks
Attribute Name	Visibility (private, public)	Туре
ToDoList	Private	Array of Task

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## 3.3 Overall Class Diagram



## 3.4 Algorithm/Query

## 3.4.1 Login Algorithm/Query

Class Name : Login
Method Name : login ()
Algorithm : (Algo-001)

input username input password

if (SELECT \* FROM Login WHERE (Login.username = username AND Login.password = password) != NULL) then

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return login\_success

else

return "username or password incorrect"

Query

No Query	Query	Description
Q-001	SELECT * FROM Login WHERE (Login.username =	Check the validity of username of
	username AND Login.password = password) != NULL	password inputed

## 3.4.2 Registration Algorithm/Query

Class Name : Registration
Method Name : Signup ()

Algorithm : (Algo-002)

input email

input username

input password

if (SELECT \* FROM User WHERE (email NOT IN user.Email AND username NOT IN User.Username) ) then return register\_account

else

return "username and email already exist"

Query :

No Query	Query	Description
Q-002	SELECT * FROM User WHERE (email NOT IN	Check if the username and email
	user.Email AND username NOT IN User.Username)	already exist or not in the
		database

#### 3.4.3 Reminder Algorithm/Query

Class Name : User

Method Name : AddReminder()

Algorithm : (Algo-003)

input title

input date

input location

input description

reminder= new Reminder()

reminder.addTitle(title).addDate(date).addLoc(location).addDesc(description)

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## 3.4.4 Task Algorithm/Query

Class Name : User
Method Name : AddTask()
Algorithm : (Algo-004)

input title

input date

input description

input timer

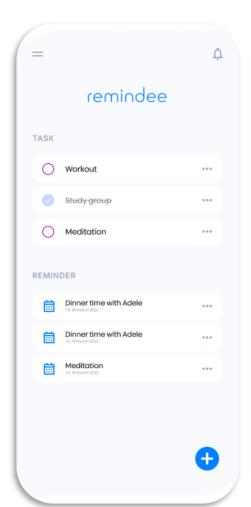
task= new Task()

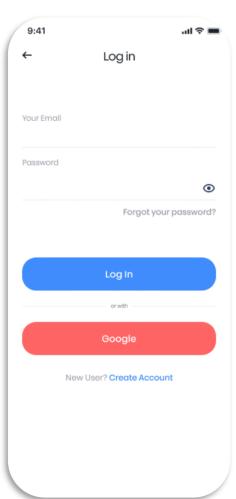
 $task. add Title (title). add Date (date). add Desc (description). add Timer (timer) \\ task. create Task()$ 

## 3.5 Interface Design

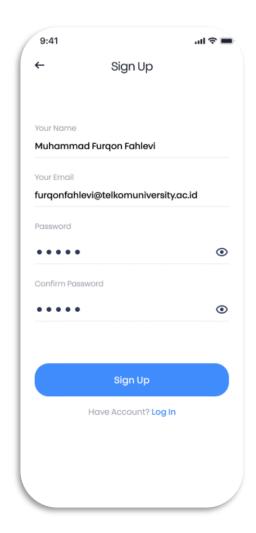
Interface : Main Page and login/signup

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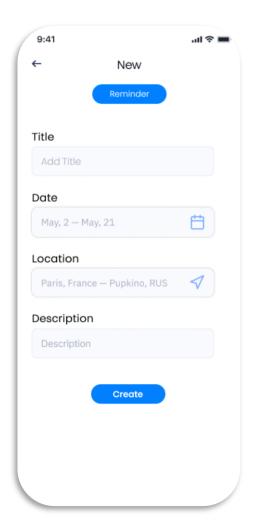


Object_Id	Type	Name	Description
BTN1	Button	Hamburger menu	If click will show login page
BTN2	Button	Notification	To manage the notification settings
BTN3	Button	Add new	To add task or reminder
BTN4	Button	Detail	To show the detail of each task or reminder
BTN5	Button	Check button	To mark the task that has finished
TXI1	Text Input	Email login	Input email
TXI2	Text Input	Password login	Input password
BTN6	Button	Show login pass	Showing the input text of login password
BTN7	Button	Login	Click when finish input login email and password
BTN8	Button	Google login	Click if login with google
BTN9	Button	Create account	If click will create a new account and show sign up page
TXI3	Text Input	Full name	Input full name
TXI4	Text Input	Email signup	Input email
TXI5	Text Input	Password signup	Input password
TXI6	Text Input	Confirm pass signup	Input confirm password
BTN10	Button	Show signup pass	Showing the input text of login password
BTN11	Button	Signup	Click when finish input the signup detail
BTN12	Button	Login	If click will go back to the login page

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	Remindee	

Template dokumen ini dan informasi yang dimilikinya adalah milik Prodi S1 Informatika Tel-U dan bersifat rahasia. Dilarang mereproduksi dokumen ini tanpa diketahui oleh Prodi S1 Informatika Tel-U.

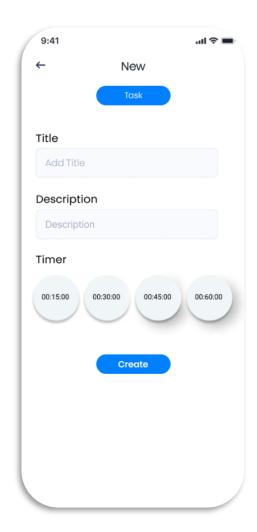
Interface: add new reminder/tas



Object_Id	Type	Name	Description
BTN1	Button	Back	If click will show main page
TXI1	Text Input	Title reminder	Input the title reminder name
TXI2	Text Input	Date reminder	Input date
TXI3	Text Input	Location reminder	Input location detail
TXI4	Button	Description reminder	Input description of the reminder
BTN2	Button	Create reminder	Click if all detail were finish

Interface: add task

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		Remindee	



Object_Id	Type	Name	Description
BTN1	Button	Back	If click will show main page
TXI1	Text Input	Title task	Input the title task name
TXI2	Text Input	Description task	Input description of the task
BTN2	Button	Timer task	Select the chosen timer for the task
BTN3	Button	Create reminder	Click if all detail were finish

Interface: profile page

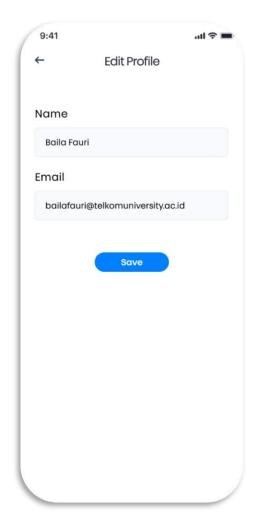
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Object_Id	Type	Name	Description
BTN1	Button	Back	If click will going back to main page
BTN2	Button	Edit profile	If click will go to edit profile page
BTN3	Button	Log out	If click will logging out current account

Interface: edit profile page

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	Remindee	

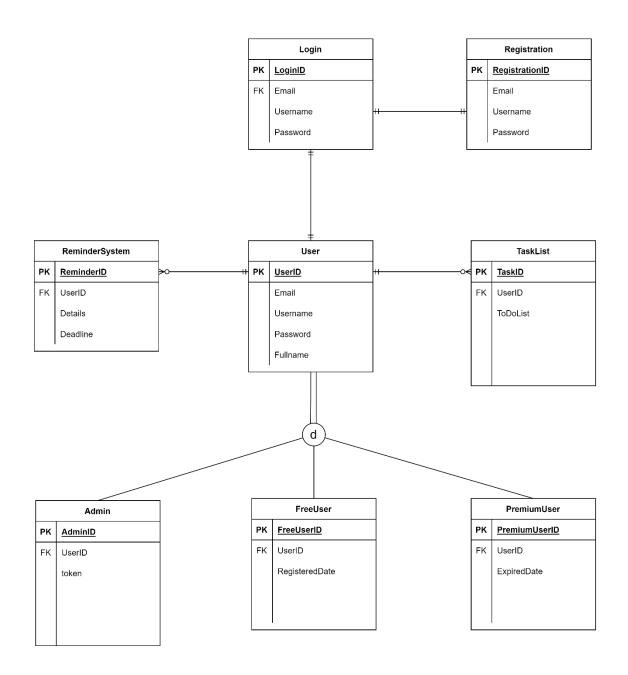


Object_Id	Type	Name	Description
BTN1	Button	Back	If click will going back to profile page
TXI1	Text Input	Name	Input new name
TXI2	Text Input	Email	Input new email
BTN2	Button	Save	Save edited changes

## 3.6 Class Persistence Representation Design

This part is filled with the basis data scheme and its traceability to the class entities.

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## 4 Trace Matrix

Requirement	Related Use Case	Class
FR-01	Login	Login, User
FR-02	Sign Up	Login, User,
		Registration
FR-03	Set Up Reminders	User, ReminderSystem
FR-04	Create Task List	User, TaskList
FR-05	Timer	TaskList
FR-06	Unlimited Reminders	User, ReminderSystem
FR-07	Notifications	User, ReminderSystem
FR-08	Accepting Upgrade	Admin
FR-09	Statistics	User

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	Remindee	