

Project Part 2 - GROUP

Team: Deepak Kyasaralli Thimmappa
Rashmi Shetty
Yawen Zhang

Title: Life Wisely

Project Summary:

A web application to manage life wisely. The application provides reminders on things which are often neglected, including diet, medication, hygiene, stress buster etc. Besides the reminder function, a log system is in place to keep track of the achievements and a reward system is in place to encourage completion of tasks.

Project Requirements:

| Business Requirements | | | |
|-----------------------|---|----------------|--------------|
| ID | Requirements | Topic Area | Priority |
| BR-01 | Each login is via CU email | Authentication | Critical |
| BR-02 | Tracking the activity of users in certain period and producing logs | DB | High |
| BR-03 | Giving rewards for user's achievements in certain period | Reward | High |
| BR-04 | Software upgrade (should only happen on weekends) | Upgrade | Good-to-have |

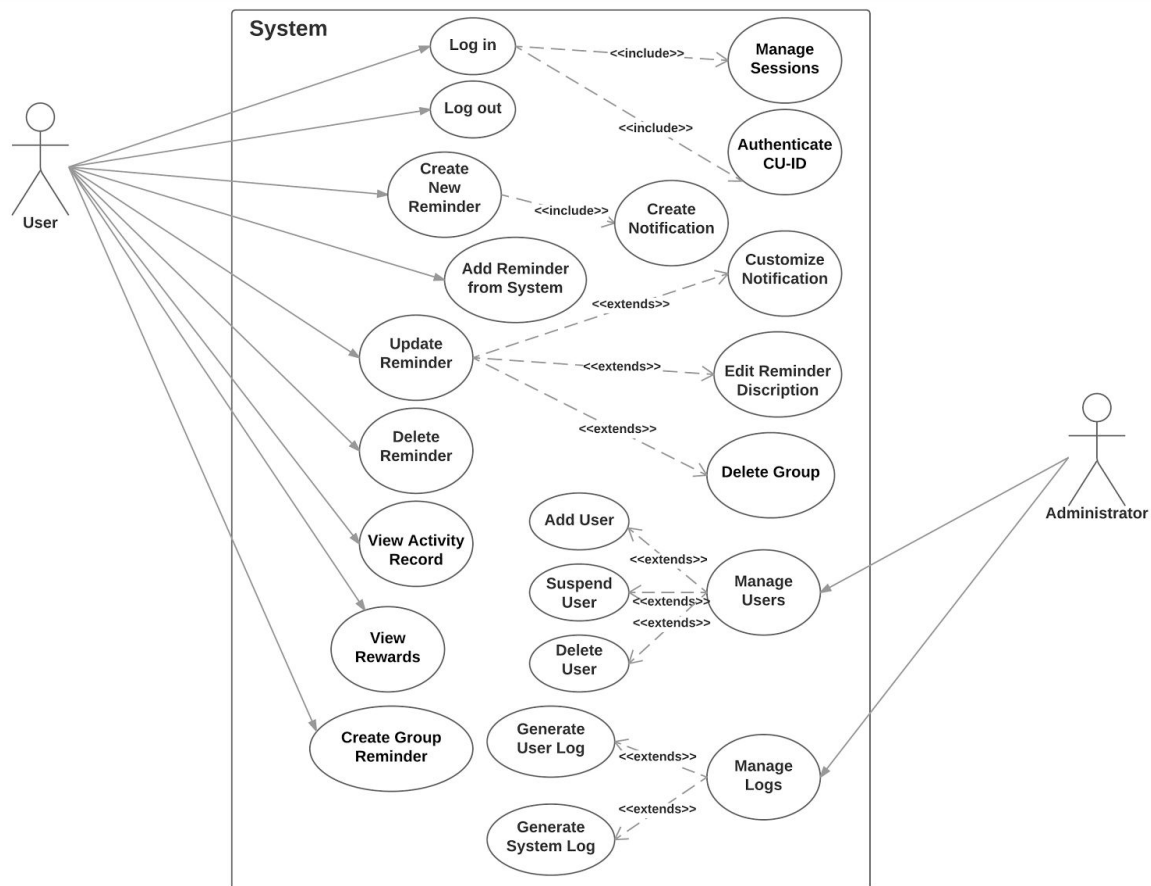
| User Requirements | | | | |
|-------------------|---------------------------------------|----------------|-------|----------|
| ID | Requirements | Topic Area | Actor | Priority |
| UR-01 | As a user, I want to login the system | Authentication | User | Critical |

| | | | | |
|-------|---|----------------|------|----------|
| UR-02 | As a user, i want to logout the system | Authentication | User | Critical |
| UR-03 | As a user, I want to create a new reminder | Reminder | User | Critical |
| UR-04 | As a user, I want to customize reminder notification | Reminder | User | Critical |
| UR-05 | As a user, I want to add existing reminder from system | Reminder | User | Critical |
| UR-06 | As a user, I want to delete a reminder | Reminder | User | Critical |
| UR-07 | As a user, I want to update a reminder | Reminder | User | Critical |
| UR-08 | As a user, I want to create a group reminder | Reminder | User | High |
| UR-09 | As a user, I want to delete group related to a reminder | Reminder | User | High |
| UR-10 | As a user, I want to view my regular activity record | DB | User | High |
| UR-11 | As a user, I want to view rewards for my achievements | Reward | User | High |

| | | | | |
|-------|--|----|-------|------|
| UR-12 | As a system administrator, I want to add user | DB | Admin | High |
| UR-13 | As a system administrator, I want to delete user | DB | Admin | High |
| UR-14 | As a system administrator, I want to suspend user | DB | Admin | High |
| UR-15 | As a system administrator, I want to generate user log | DB | Admin | High |
| UR-16 | As a system administrator, I want to generate system log | DB | Admin | High |

| Non-Functional Requirements | | | |
|-----------------------------|---|-------------|----------|
| ID | Requirements | Topic Area | Priority |
| NR-01 | 300 concurrent users should be supported | Performance | High |
| NR-02 | Access by all OS | Platform | Critical |
| NR-03 | Access to external data (import from Google calendar) | Interface | High |
| NR-04 | Backup DB | Security | High |

Use Case Overview:



Data Storage:

- DB: PostgreSQL
- Data is distributed in 6 tables

User information is stored in User table with columns as User email, Password, User Name, Gender, Phone number, Email having User email as primary key.

User group information is stored in User Group table with columns as Admin User (user who creates the group), member User Email, Group name and simple description.

Reminder information is stored in Task table with columns as User email, TaskID, Task Name, Begin Time, End time and status with User email as foreign key

Log information table which stores User email, log in time and log out time with User email as foreign key.

Notification table with Task ID, Notification title and Recurrence type with Task ID as foreign key.

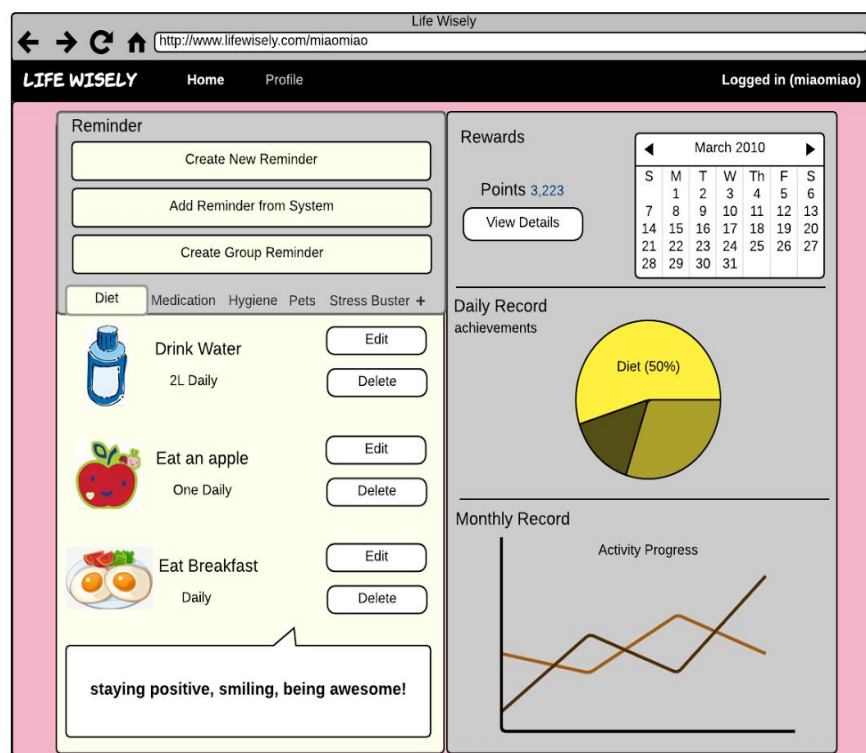
Reward table with Task ID, points with Task ID as foreign key.

UI Mockups:

- Main UI (after user logged in)

LIFEWISELY WIREFRAME

Life Wisely | March 14, 2017



- **UI flow**

i) When user clicks, Create New Reminder, the following form is displayed

LIFE WISELY | Home | Profile | Logged in (abc)

CREATE REMINDER FORM

REMINDER NAME:

CATEGORY:

FREQUENCY ☐ DAILY
☐ BIWEEKLY
☐ MONTHLY

NOTIFICATION MODE: Please select one v

START TIME:

END TIME:

REWARD POINTS:

SUBMIT

Submission is confirmed with home page loaded with updated task

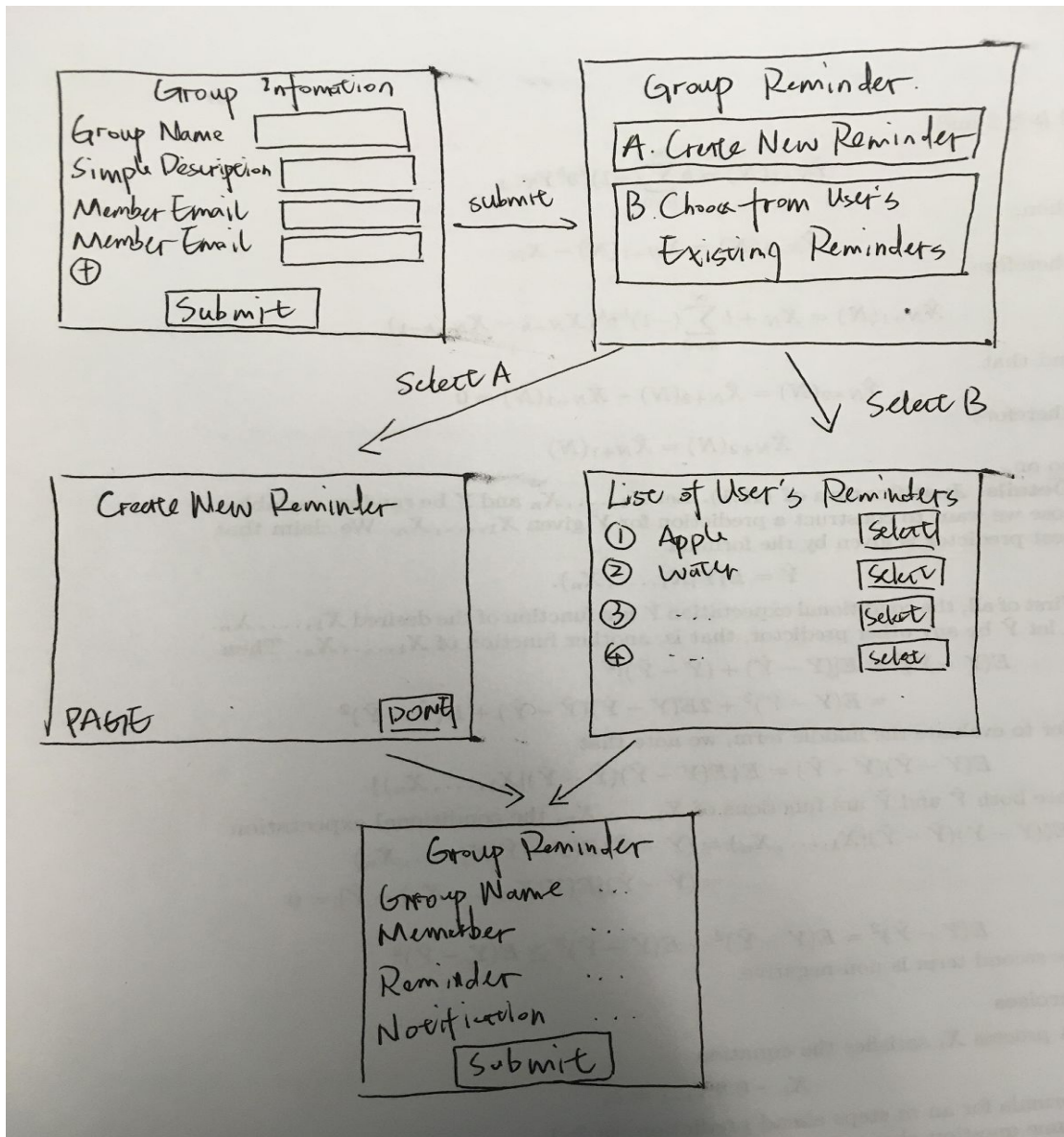
ii) When user clicks, add existing reminder form, following form is displayed:

A hand-drawn form on lined paper. At the top, there is a navigation bar with 'LIFE WISELY' followed by links 'Home' and 'Profile', and a 'logged in (ab)' status on the right. Below this is the title 'ADD EXISTING REMINDERS FORM'. The form contains several fields: 'REMINDER CATEGORY' with a dropdown menu showing 'Please Select One'; 'REMINDER' with a dropdown menu showing 'Please select one'; 'FREQUENCY' with three radio button options: 'DAILY', 'BIWEEKLY', and 'MONTHLY'; 'NOTIFICATION MODE' with a dropdown menu showing 'Please select one'; 'START TIME'; 'END TIME'; and 'REWARD POINTS'. At the bottom center is a 'SUBMIT' button.

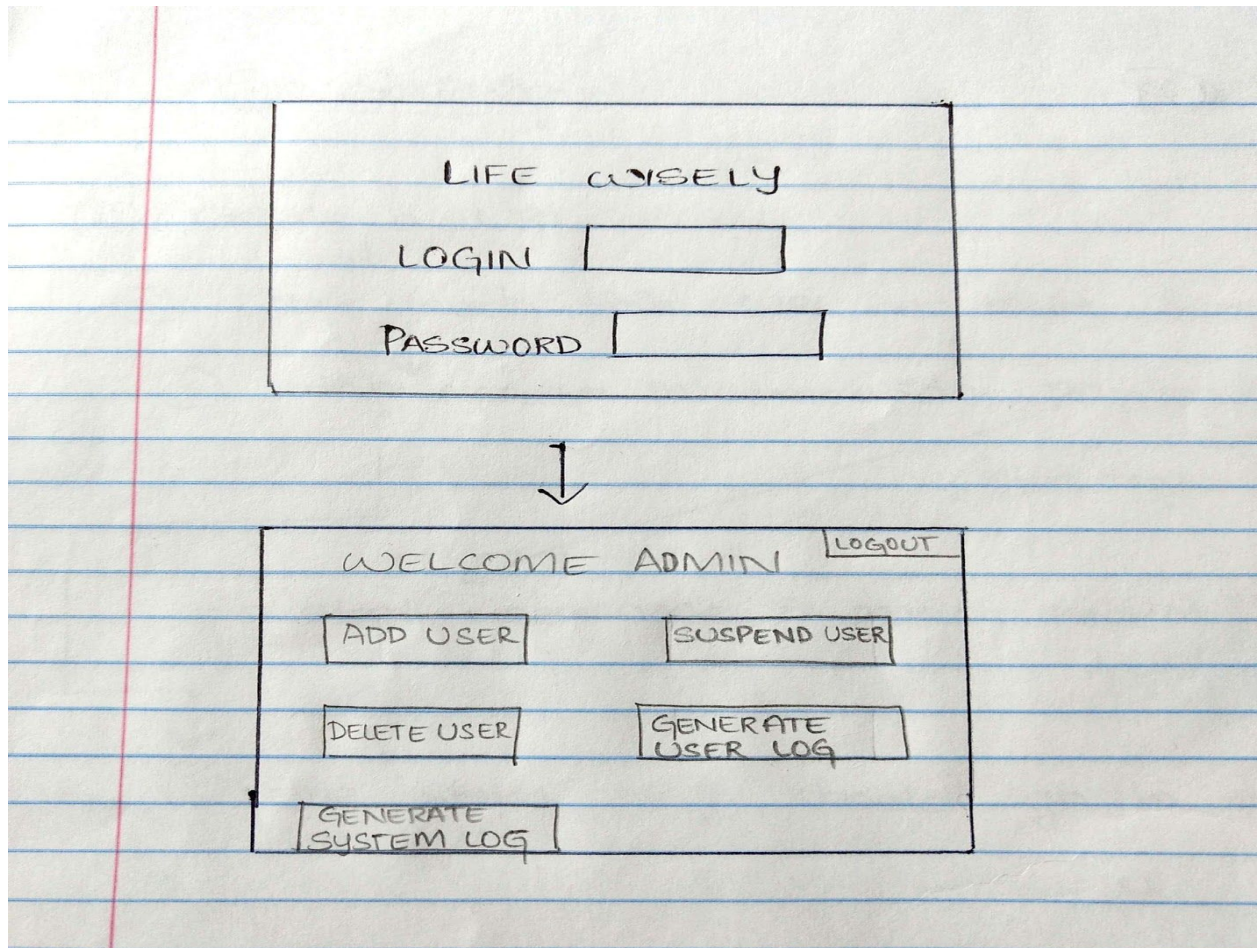
| LIFE WISELY Home Profile | | logged in (ab) |
|------------------------------|---|----------------|
| ADD EXISTING REMINDERS FORM | | |
| REMINDER CATEGORY | Please Select One v | |
| REMINDER | Please select one v | |
| FREQUENCY | <input type="checkbox"/> DAILY <input type="checkbox"/> BIWEEKLY <input type="checkbox"/> MONTHLY | |
| NOTIFICATION MODE | Please select one v | |
| START TIME | | |
| END TIME | | |
| REWARD POINTS | | |
| SUBMIT | | |

Upon completion of either forms, the user is presented with updated home page.

iii) When user clicks, create group reminder, the following page is presented. Upon completion of initial form, the user is provided option of creating reminder or select existing reminder as mentioned in i) or ii) of UI-flow



Admin View:



Class Diagram:

