Medicine Dictionary

Sprint Explanation

Sprints:

1st sprint:

● Installing program, frameworks:

For developing this application, we are going to use android studio IDE with kotlin language, also we are going to use firebase (Firestore) to store our data.

● UI Mockup:

We did a mockup for our application for the login page by social media and normal way(with username and password), searching page for this page the user will have to choice to do the search the first choice is searching by medicine name and the second one will be by searching by color, shape and the code of the medicine, searching result page this page will give a list of medicines if there are more than medicine for the searching result and the medicine page will include all the information about a special medicine that the user choose it to check.

● study frameworks:

Most of us do not have enough experience with building android application, so we are going to learn more about it by watching android tutorial and firebase tutorials.

● Drawing the charts and diagrams:

We are going to draw the charts and diagrams that will help us to explain more about project like use cases chart and entity diagram

● Financial Factors:

For the first sprint we are going to finish everything related to financial part like cash flow, flow chart and ROI with NPV

● data structure: which data we need to use

We are going to get our data from cima website this website has all data about medicines that we are going to use.

● system connecting:

As we mentioned before we are going to use Firestore to store our data, so the first step will be connecting our application to Firestore.

● Simple sign up, log in, log out:

As an usual app the first page will be login and sign up page.

We are planning to use social media for example Facebook and Google accounts.

Gmail for signing up and logging in.

● Start menu with the logo of the app:

The menu will contain all main parts or features on our app that the user is going to use it.

● Searching engine:

The main feature in our app will be the searching feature we will allow the user to make the search by two ways first one is searching by medicine name and the second one will be searching by color, shape and code of the medicine.

2nd sprint:

* Retrieving real data from PillBox API :

In this second sprint our main goal is to retrieve real data from the API we were using and show it to the user through the same methods we have implemented on the first sprint which is only the search engine feature.

* Setting alarm and pillbox List:

Apart from that, we wish to develop the alarm and pillbox functionalities, so that is to say, let the users set their alarms and save the alarm data in sqlite servers and print the alarms list in the pillbox page so they can see all setted alarms.

* Notification:

Also for this sprint we are planning to start showing random notification for the users. Those notifications will be about daily life health habits and some advice about medicines and health.

* Improving financial part:

In this sprint we are going to add some fields and rows to cash flow and to change all our cash flow to positive and spend our profit in expanding our businesses in new countries.

Furthermore, we expect to explain more deeply about some financial factors, in order to specify more our financial goal for the project. Besides, we need to provide some administration part for the retrieved real data from an external API, although, we decided not to create an admin web project due to some explained reasons on the ADMIN PART REPORT document.

In addition, we count on providing a video demo of our application main functions, in order to show our prototype, since in the last sprint we couldn’t manage to give out.

3rd sprint

●Saving more data about users(survey):

In the 3rd sprint we are planning to allow the user to fill surveys and more data about the user so we can use it in notification.

●Improving notifications:

We are going to improve the notification so every notification will popup for specific users who are interested in it by using survey and user information .

● Improving the GUI:

We are planning to improve the GUI to be better and user friendly so the user can be happy and comfortable while using our app.

● Running the alarms:

In this sprint we are going to start working more with alarm to be able to run and ring to remind the users for their pills.

● Saving alarm list in firebase:

In this sprint we are going to start save the alarm list in firebase next to sqlite because the user may lose the application data by mistake so we found that the best way to keep this data is to save it in firestore and restore in sqlite if the user lose this data so no need to set the old alarms again.

● Updating the financial part doc :

In this sprint we are going to update the financial part document depending on the professor's comments.

● Updating the main documents and diagram :

In this sprint we are going to main documents like sprint explanation, sprint planning,general architecture,etc… and main diagrams(use cases and db model diagrams) depending on our application needs.