University of the Philippines Los Baños
College of Arts and Sciences
Institute of Computer Science
CMSC 23 Mobile Development
Project Details

Project Name: Shared Todo App

Description

The project is a Flutter mobile application composed of a sign in, sign-up and a shared todo list features with a user's friends. The database that will be used is Firebase.

Features

- **Sign-Up**
    - When signing-up, the user must provide the following:
        - First name and Last name
        - Username
        - Birthdate
        - Location
        - Password
        - Email
    - Must have a validator for each field.
    - Email should be unique
    - Password must be at least 8 characters long with at least a number, a special character, and both uppercase and lowercase letters.
    - ID is auto-generated.
- **Login/Logout**
    - User Firebase Authentication using email and password
    - Must have a validator for each field.
- **User Profile**
    - Shows the ID, Name, Bdate, Location, and Bio
- **Friend Feature**
    - Must show the list of friends and friend requests.
    - When the user clicks one friend in the friends list, the profile should be shown.
    - The profile is composed of ID, Name, Bdate, Location, and Bio.
- **Search Friend**
    - Search bar that finds users containing the search string. The user don't necessarily need to type the whole username to find a match.
    - Each output searched users must have an add friend button (unless the searched user is already a friend).
- **Shared Todo**
    - All friends can see your todo and you can also see your friend's todo list.
    - Add a todo.
        - Only the owner can create a todo.
        - Composed of Title, Description, Status, Deadline, Notifications.
    - Edit todo

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Project Details

- ■ User and friends can edit the todo, must show the name of last edit and timestamp.
  - ○ Delete todo
    - ■ Only the owner can delete a todo.
  - ○ Status Change
    - ■ Only owner can change the status.
  - ○ Todo Notifications
    - ■ Using notifications (local, push notifs, etc)
    - ■ Example: Push notification for upcoming deadline, Friend edited your todo, etc
    - ■ Bonus if deadlines are connected to the phone calendar.

Project Schedule

After the discussions in the laboratory, you are required to start with the project. Here is the table schedule with expected minimum output for the milestones. These milestones will be checked during lab hours. Each milestone is equivalent to 5 points for the project.

Date	Milestone	Minimum Expected Output
21 Nov - 25 Nov	Milestone 01	Create firebase, fetch/add information in firebase
28 Nov - 02 Dec	Milestone 02	UI and Navigation
05 Dec - 09 Dec	Milestone 03	Add, Search, Todo
12 Dec - 14 Dec	Finalize Project	

Project Deadline

The **deadline** for the project is on **December 14, 2022, Wednesday**. All changes after the said date will not be considered.
The start of the **project presentation** is on **December 15, 2022** until **December 21, 2022**, during laboratory hours.

Project Grading Scale

Here is the table for the point equivalents for each feature.

#	Feature	Points
1	Signup, Login, Logout via Firebase	10 points
2	Add, View, and Search Friends	30 points

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3	Shared Todo List	25 points
4	Testing (choose 1 type) **Unit Test** - All Functions **Widget Test** - At least 4 Happy/unhappy path each **Integration Test** - At least 2 Happy/Unhappy path each	10 points
5	Readme and Documentation	10 points
6	Milestone Presentations	15 points
8	Project UI	5 points
7	TOTAL	105 points

Reminders

- Project presentation is required. Failure to present, given that you have a passing standing will result in an INC, otherwise you will be given a grade of 5.0.
- You can rename the app based on your preference.
- Some features will be coming from your exercises. Those features that are already graded as an exercise will not be explicitly graded in the project.
- Wireframes nor app flow will not be provided for the project. It will be up to you to organize the flow of your application according to the features listed above.