

Project Proposal

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EXECUTIVE SUMMARY

Objective

This final project will show off the technique and knowledge of iOS Development, learned during the Career Foundry bootcamp program.

Goals

The project will need to incorporate the core features of Career Foundry curriculum.

Solution

We based the project on the standard To Do App final project of Career Foundry. Then we customize and improved with additional features.

Project Outline

The following are customization and improvement on the requirements on the standard To Do App:

1. The tasks are group into categories. For example, shopping, exercise, spiritual, child care, etc. (see the Scratch design for more detail).
 2. Within the a category, if it make sense, we could break it down further into name of business or landmark. For example, a shopping list tasks are group further in the store name.
 3. The app will use EventKit to access Calendar and Reminder.
 4. In addition to a reminder based on time, we also have reminder based on location. For example, once reaching a shopping location, the reminder will be trigger to show the shopping list for the location.
 5. Most business will have multiple stores within relatively close distance, so when a shopping task is assigned to a store name, it's possible location would be a list of store locations. And for each of these locations, a reminder by location should be set.
 6. In order to get the list of nearby store locations (within certain predetermine distance set in user preferences), we will use Alamofire to communicate with external API. (the exact external API is still TBD, maybe Google Map API or something similar).
 7. In the case of shopping list, users will bought some items regularly, some each week, some others every two or three weeks, and others some longer period. We will have possibility to set a task as repetitive but maybe not bound to a certain date, but it could also do so. When the time interval has been reached, a new task will be created. In case of shopping item, it could in turn trigger multiple location reminders.
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8. Some task are **group task**, so more than one user could fulfill the task. Aside from individual login, we could either have group login or have ways to share task among friends and family. (the exact procedure is still TBD). When any member of the group completed the task, the task will be marked completed in other member of the group.
9. **Pomodoro** technique is commonly use during study or work / programming. We could embedded a lightweight pomodoro tracking for the task within category **Studying** (and other categories when make sense).