



CP 317

Spring 2020



Software Engineering

Project Proposal and Feasibility Report

Portable Calendar

CP317-TP04

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WILFRID LAURIER UNIVERSITY
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Description

Portable Calendar is a hybrid mobile application using ionic framework, which means Portable Calendar supports both IOS and Android version. Portable Calendar can be considered as a simplified version of Google Calendar. Since Google Calendar already provide a variety of features on Calendar, simplified and adaptable will be the first priority on Portable Calendar. Currently, the target user would be student, since all of us are student, we

are clear about the demands and the potential feature student will require for a calendar. Portable Calendar will have a calendar page and create event page, user can view the event they created on calendar page, those two pages are the bottom line of our application. Other potential features will be developed based on their priority; more details will be talked about on next part.

Feature Priority

Bottom Line:

the feature we must develop.

- Calendar Page: display the upcoming event in the following weeks
- Create Event Page: allow user to create event with time and notes

Potential feature:

features can be convenient to the users and easy to implement, some/all of them will be developed.

- Repeat feature: allow user to create weekly/monthly/annually

events

- Color feature: allow user to create event with desired color
- Search feature: allow user to search the event

Advanced feature:

Features can be convenient to the users but can be challenged to implement, will be developed if we have extra time.

- Dark mode: supports different color of text, icons and background
- Bilingual: supports different language
- Schedule: able to find the best combination through many optional time (e.g. class schedule)

Process

Version Control Tool – GitHub

Mobile Application Framework – Ionic

Agile methodology:

Sprint: a week

Velocity: undecided, will be decided after two sprints

Story point based: Create a button and function will be one point

Risk Analysis

It is undeniable that the risk will still exist even though we set three categories for different features (bottom line, potential, advanced). Bottom line can be achieved after we are familiar with ionic. What we need to worry about is some new feature may conflict with old features since we have not decided which potential features and advanced features will be included. We are not sure about what our velocity is in each sprint since there is a learning curve for all of us. Overall, it is a low risk project since the fundamental features for calendar is not very hard. Wasting time may occur during the development of potential and advanced features but will be acceptable.

Work Distribution

Yulin Xue	Developer – Calendar Page
Ziyan Yang	Developer – CreateEvent Page
Shuangqian Lu	Developer – Setting Page
Hongshan Shang	Developer – Calendar Page
Yurong Jia	Researcher
Dekai Meng	BA

HaoPeng Zhu	Document
Cong Qi	QA
Zhuoran Yang	UI & UX design

Since the workload for different roles can be quite different in each stage of development. We will change our role to balance the workload in each stage. For example, Cong Qi and Hongshan Shang will spend more time on research at the beginning and most of us will be doing testing at the end.

Declaration

All of us have completed the survey.