Walking Navigation App

Project Management Plan

Version 2.0.0

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TEAM 206

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Introduction and Purpose

Most of us have used a smartphone app for navigation, either on foot, public transport or by road. The main aim of this app is to direct users to a destination via a series of walking directions. The app will direct the user along paths comprising of ordered lists of geographical locations (represented as latitudes and longitudes) where the user must change direction. The app will monitor the user's location and give them directions to the next location on the path, noting when they reach it and directing them to the subsequent location until they reach the destination. This document was initially defined at the beginning and contains an in-depth information about the planning and development of this apps. In the first part, it will cover the background and intended use of this navigation app. Besides that, it also contains the scope, deliverables and due dates for the completion of the app. Moving on, this document also records the roles and tasks of each team member working on this app. Personal information of each team member are also recorded for documentation purposes. The last part notes down the methods of communication applied as each group member works on the application. Any changes made during the process of creating this app will be continually documented. Moreover, every other document delivered should be based on the content of this document. To conclude, the main objective of creating this Project Management Plan is to give a clear guideline to each team member while creating this app. Every member should use precise management skills to prevent any mishaps and the success of this app.

Project Information

Background

WalkAbout is a well-known organisation which specialises in directing vision impaired people around cities. They are known for employing trained staff to help walk and direct people who are visionally impaired. However, due to the growing use of technology, they have decided to create a user-friendly app which can direct these people without needing anyone beside them. This would not only save resources and have a more benefit impact to these people. The team that have been employed are an experienced team who have previously developed an app called "Tap Code Transmitter". The employer, Ms Anne Kool has instructed the team to develop a prototype navigation app.

Scope

The navigation app can create a route and lead the user to the destination they select. Once the navigation starts, the app shows the direction and way-point to guide the user. As the user keeps moving, the app will keep a track of user's location using the GPS navigating system. At the same time, the app is capable of displaying the user's real time speed, estimated arrival time and remaining distance to reach the destination on the navigate page. When the user reaches the destination, a message will pop up in the app to notify the user that he/she has arrived the destination and the app will direct user back to the main page of the app.

The limitation of the app is that user must use the app within Monash Sunway Campus and it will no longer works if the user uses it outside of the campus. Other than that, not like the other navigation app, this app has no voice direction to guide the user to the destination.

Intended Use

The prototype navigation app will detect the location of the user and direct the user to the next location on the path. The directions are based on geographical location and will accurately direct the user to their intended destination. It needs to be a proof-of- concept for mobile app-based navigation, and that later versions of the app can be modified to make the app accessible to blind and vision-impaired customers.

Deliverables/Due Dates

Phase	Deliverables	Due Dates
Initial Structuring	- Group meeting - Initialize Project Management Plan - Set up Asana - Set up GitKraken - Create a new folder for this assignment in Google Drive - Download all the given skeleton code and information from moodle	2 May 2018
Functionality Coding	Loading and Persisting Path Details	4 May 2018
	- Create a Path Class - Create a PathList Class	6 May 2018
	Showing a list of paths	8 May 2018
Task Status Checking	- Group Meeting - Update the progress of assignment - Debugging	9 May 2018
Functionality Coding	Location tracking	11 May 2018
	- Determining the next way-point - Distance and direction to next way-point - Estimating remaining distance and average speed	14 May 2018
Task Status Checking	- Group Meeting - Update the progress of assignment - Revise the project management plan - Debugging	15 May 2018
Functionality Coding	Creating your own route	17 May 2018
Task Status Checking	- Group Meeting - Debugging - Ensure the app is working	18 May 2018
Technical Documentation	- Complete project management plan - Complete User Guide	19 May 2018
Task Status Checking	- Group Meeting - Submit assignment to moodle	20 May 2018
Presentation	- Creating presentation slides - Divide contents amongst each member - Prepare for presentation - Flow of presentation	24 May 2018

Personnel/HR Management

Team Members	Responsibilities
• Name: Pasan Savindu Wickramarathna • Student ID: 28979095 • Contact number: +94702887161 • Email Address: pwic0002@student.monash.edu	• Team leader • Provides overall assignment direction • Does pair programming with other group members • Evenly distribute the work load among all teammates • Proofreading the codes and documents • Does the project management plan and user guide with other group members • Approves assignment deliverables
• Name: Choong Yew Hong • Student ID: 28992369 • Contact number: +60124247498 • Email Address: ycho0011@student.monash.edu	• Team member • Provides overall assignment direction • Creates and help to create work products • Does the project management plan and user guide with other group members • Does pair programming with other group members • Proofreading the codes and documents • Review assignment deliverables
• Name: Samuel Yap Wei Heng • Student ID: 29031931 • Contact number: +60128949863 • Email Address: syap0004@student.monash.edu	• Team member • Provides overall assignment direction • Creates and help to create work products • Does the project management plan and user guide with other group members • Does pair programming with other group members • Proofreading the codes and documents • Review assignment deliverables
• Name: Kekunahinnage Dinidu Hasanga Chandrasekara • Student ID: 28481992 • Contact number: +94712487542 • Email Address: kcha0029@student.monash.edu	• Team member • Provides overall assignment direction • Creates and help to create work products • Does the project management plan and user guide with other group members • Does pair programming with other group members • Proofreading the codes and documents • Review assignment deliverables

Decision on Processes

Applications Used	Audience	Frequency of Usage	Purpose of Usage
GitKraken	All team members of team 206	Per commit	- Upload the JavaScript file given in the assignment 2 to the repository - Pull and push from repository to edit the code in the JavaScript file - To merge the file edited by individual - To notify each of us if there is any conflict so we can edit again
Asana	All team members of team 206	Ongoing	- To track and update tasks - To monitor tasks frequently - To keep us on track so we can complete assignment 2 before due date
Google Drive	All team members of team 206	Per commit	- Update documents of assignment 2 - Create and update meeting agenda

Communication Management

Application used	Audience	Frequency of usage	Purpose and reason of usage
Face to face meeting	All team members of team 206	At least once a week	• To meet up with all group members to discuss the progress of assignment • To ensure all the team members are on the right track as a team
WhatsApp	All team members of team 206	Ongoing	• To contact with all team members to ask for help in assignments • To resolve all possible problems faced while completing assignment 2 without face to face
Asana	All team members of team 206	Ongoing	• To contact all team members to ask for help without having to meet up face to face • Communication for allocation of tasks