Group Project 07 – Project Plan

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1. Introduction

1.1.Purpose

This document displays how the project will be completed and any risks involved. It outlines the requirements specified by the client as a series of documents.

1.2.*Scope*

This document should be read by all members of the group. It contains a list of tasks, the schedule and risks involved in the project. It also details what the application and server will be required to do.

1.3. Objective

- List the platforms to be used for the project
- Provide a task schedule for the project
- Provide a description of how the application and website will be used.
- Provide a list of risks and how to reduce their effects
- Provide an idea of the UI for the Android application and the website
- Provide a description of how the application and website can be navigated

2. Project Overview

The proposed system is an application running on the Android operating system that will be used to record walks for a particular user. The application will allow the user to start a recording of a new walk and add points of interest to that walk, save the walk and view the walk later.

The website will allow the user to manage their uploaded walks and delete them as well as view walks created by other users. The user also has to create an account via the website if they want to be able to log-in on the Android application.

2.1.*Platforms*

2.1.1. *Android*

As stated by the client, the operating system used will be Android. This will be developed for mobile devices. The operating system version will be 4.2

2.1.2. HTML 5

The website will be built using HTML 5 alongside CSS 2 and CSS 3. This will allow the latest version of HTML to be used for the website.

2.1.3. PHP

PHP will be used to handle the communication between the mobile device and the server. It will be run server side and is understood to a working level by the web programmers.

2.1.4. MvSOL

The database will be built using MySQL. It shall store information about each walk and the walk themselves. Information stored will include all points of interest added, their associated long and short descriptions and any pictures taken.

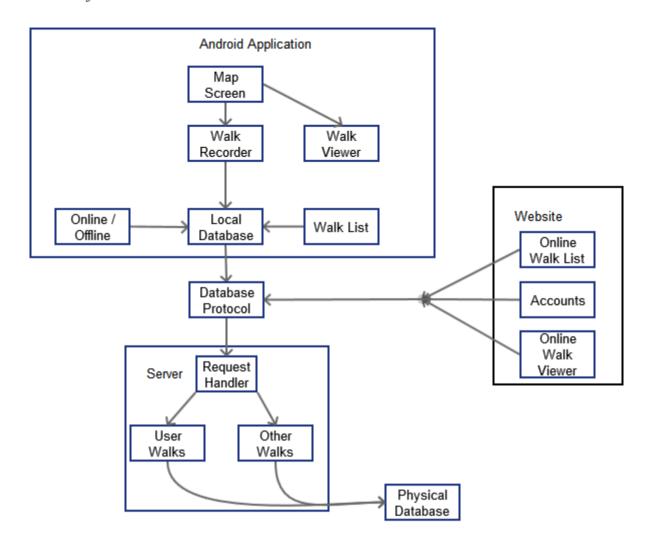
2.1.5. OpenSpace API

This API by Ordinance Survey, will be used instead of Google Map's. This is because this map allows offline use, enabling recording whilst not connected to the internet as well as having many useful features.

2.2. *Target Audience*

This application is aimed at Second Year Computer Science students. Precautions had to be taken while designing the user interface to prevent the user from having to navigate through too many screens.

2.3.System Overview



2.3.1. Android Application

This is the application. All modules here are running on the mobile device

2.3.2. Online Offline

This module handles the location where data is stored. If the user is connected to the internet, it makes sure any uploads can be tied to the user.

2.3.3. Walk List

THIS MODULE HANDLES THE LISTING OF WALKS FROM THE LOCAL DATABASE. (SEE FIG. 4.3 & FIG. 4.4)

2.3.4. Map Screen

This module handles the displaying of all visual elements from the walk. (See Fig. 4.8)

2.3.5. Walk Recorder

This module handles the storage of points of interest, the time taken for a walk and the walks location during recording.

2.3.6. Walk Viewer

This module handles loading of walks from the local database and converting them back into a visual form

2.3.7. Local Database

This module stores all locally saved walks and maps cache. It handles the retrieval and uploading of walks to the server.

2.3.8. Database Protocol

This module handles the conversion of database request to their required language such as from POST to HTTP for the website.

2.3.9. Server

This is the server that handles all requests between the database, website and android application

2.3.10. *Request Handler*

This module deals with linking data between users

2.3.11. *User Walks*

This module handles the retrieval and editing of walks of the associated user

2.3.12. Other Walks

This module handles all walks not owned by the user

2.3.13. Physical Database

This is the machine where all request are handled

2.3.14. *Website*

This module serves as the control for everything on the website

2.3.15. *Online Walk List*

This module handles all lists being displayed to anyone on the website

2.3.16. *Accounts*

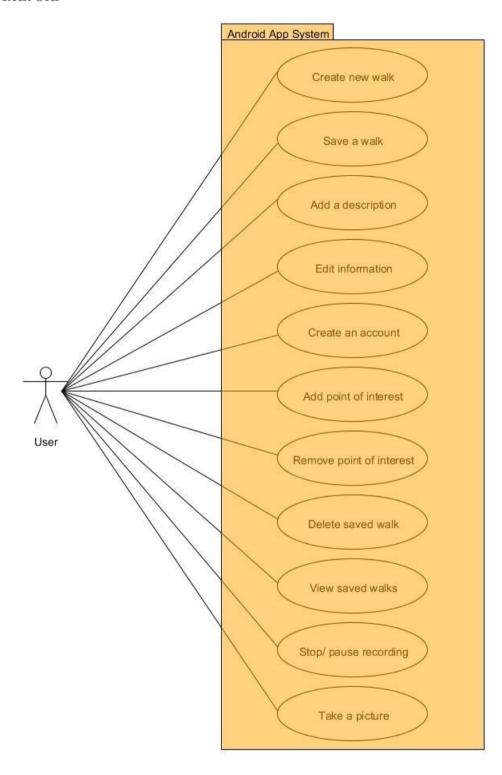
This module handles the retrieval and creation of accounts

2.3.17. Online Walk Viewer

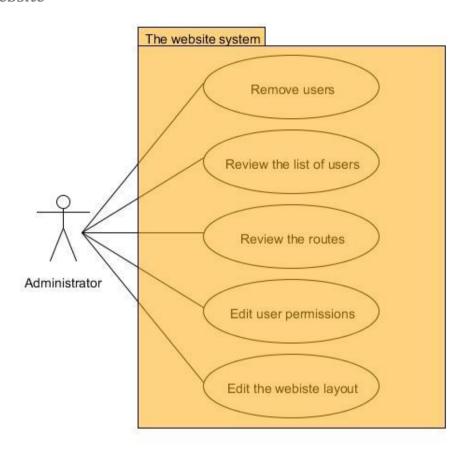
THIS MODULE HANDLES THE CONVERSION OF DATA INTO VISUAL FORM FOR BROWSER BASED VIEWING OF WALKS

3. USE CASE

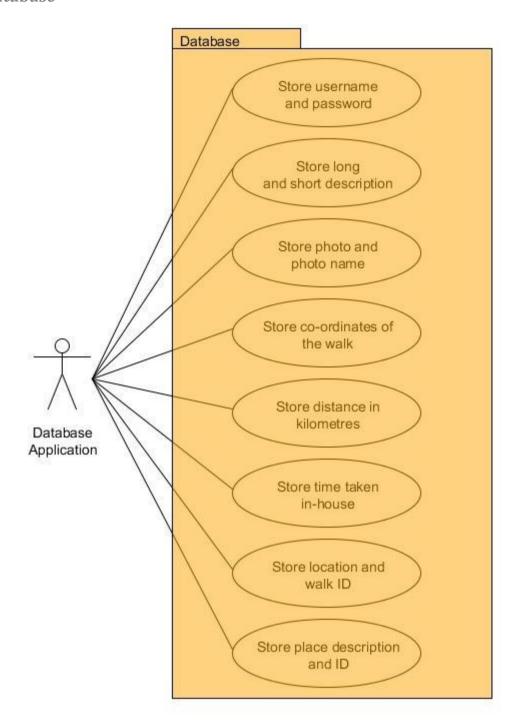
3.1.Android



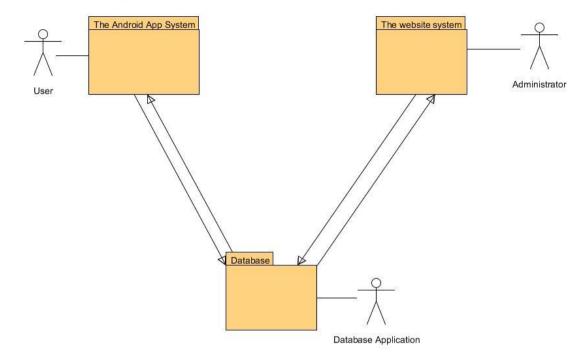
3.2. Website



3.3.Database



3.4.Interaction System



The diagram above represents the interaction of the whole system. The user interacts with both Android application and the website. The walks recorded by the user along with all the other information like description and the photos, are stored in the database and can be easily accessed later via the website or locally. Every action that creates or adds data is stored in the database.

The Android application downloads a list of walks from the server and uploads walks from the local database. The Android application does not have a direct link to the website. Registration is done via the browser and logging in sends a query the database. The two way interaction system is used to reflect this. The website and the database have a two way interaction to give the administrator access to the data stored and the changes made on the website have to be updated in the database. The website also pulls a list of walks from the database and uploads any changes back into the database.

3.5. *Descriptions*

Diagram Name	Use case name	Description	
Android	Create new walk	Allows the user to start recording a new walk	
App Use Case	Save a walk	The user can save walks locally or upload them and save locally if they have internet access	
	Add a description	The user must add a short and long description to describe the walk they are starting	
	Edit information	A menu with certain options (e.g. Filters) which makes reviewing more convenient	
	Create an account	The user will be able to create a new account via the website. Selecting register on the options screen of the application will open the mobile device browser redirecting them to the registration page on the website	
	Add point of interest	The user must add points of interest on the walk. This includes a short description, an optional long description and optional images. A timestamp is automatically taken when a point of interest is saved	
	Remove point of interest	The user will be able to remove points of interest via the swipe screen	
	Delete saved walk	Users can delete their walks. Deleting a walk on the mobile device only deletes it locally. Uploaded walks can only be deleted via the website	
	View saved walks	Views the list of locally saved walks or uploaded walks	
	Stop/ pause recording	Walk recording can be paused or stopped when necessary. Stopping a walk will prompt the user to save or upload it or return them to the main menu if there are no points of interest added.	
	Take a picture	The user can take a picture of a location and add it to the walk. Alternatively, they can add a picture from their photo library	
Database Use Case	Store accounts and data	The accounts created by the user are stored in the database and all walks are associated with the database	
	Store long and short description	If the user adds a description to the walk it is also saved in the database	
	Store image	The pictures taken by the user are sent to the database	
Website Use Case	Remove users	The administrator can remove accounts that violate the terms and conditions	
	Review the list of users	The administrator can view all registered users. Useful to determine if a user has violated the terms of use.	
	Review the walks	Uploaded walks can be reviewed by the administrator to ensure they do not violate the terms of service	
	Edit user permissions	The administrator can add or remove permissions from the users	
	Edit the website layout	The website layout can be changed if there is such a neccessity	

4. Android User Interface design

4.1.Start Screen



Displays only the program name, logo and group name. Tap to continue to main menu. This screen may be replaced with a tutorial or help screen on first launch.

NAVIGATION

Start → Main Menu (Fig. 4.2)

4.2.Main Menu



This screen is the main menu. It will allow users to view past walks, log-in or logout, view the options and start new walks. Users will be returned to this screen after exiting or completing a walk.

NAVIGATION

Start Walk \rightarrow New Walk Screen (Fig. 4.4) Sign in/Logout \rightarrow Sign in screen / logout View Walks \rightarrow View Walks Screen (Fig. 4.3) Options \rightarrow Options Screen (Fig. 4.13)

4.3. View My Walks Screen

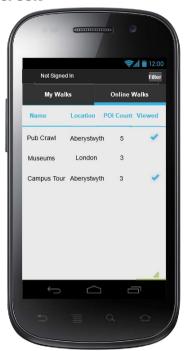


Above image is for viewing my walks. If a walk is selected, another screen opens with an image of the walk. If the walk is uploaded an upload option is available. Other options are load walk, delete walk and cancel. Tapping edit allows walks to be deleted. Deleting walks only occurs locally and not on the server

NAVIGATION

Back to main menu arrow \rightarrow Main Menu (Fig. 4.2) Online Walks \rightarrow View Online Walks Screen (Fig. 4.4) Select Walk \rightarrow View My Walk Screen (Fig. 4.5)

4.4. View Online Walks Screen



This screen displays the walks downloaded from the server. These walks can be downloaded from the server for use. Walks may be filtered in this screen based on location, number of points of interest and viewed.

NAVIGATION

Back to main menu arrow \rightarrow Main Menu (Fig. 4.2) My Walks \rightarrow View My Walks Screen (Fig. 4.3)

4.5. View My Walk Screen



This screen displays a small scrollable list of all points of interest on of the selected walk and a small map of the areas covered by the walk. If they haven't been uploaded, It walks can be uploaded via this screen. Walks can also be loaded from here.

NAVIGATION

Cancel → View My Walks Screen (Fig. 4.3) Load → Recording Screen With Walk (Fig. 4.10)

4.6. View Online Walk Screen



This screen is used to view other walks from the server. They can loaded from this screen. It displays a list of Points of Interest for the walk and a small map displaying points of interest from the walk

NAVIGATION

Cancel \rightarrow View Online Walks Screen (Fig. 4.4) Load \rightarrow Recording Screen With Walk (Fig. 4.10)

4.7.New Walk Screen



This is the walk creation screen. It allows a short and long description to be added to a walk.

NAVIGATION

Back → Main Menu (Fig. 4.2) Start Walk → Recording Window (Fig. 4.4)

4.8. Recording Screen



This screen only displays the map around the users' current location. When a point of interest is added, it will be displayed as a pin on this screen. The options button will allow the user to sign in/logout. When viewing a walk, only the option button and the swipe menu will be available. Pinch zoom may be used instead of button zoom. If the user taps the pause button, the recording will pause. If the user taps it again, the recording will resume. Holding down the button will stop the recording and take the user to the walk complete screen. The options menu will allow the user to exit the walk without saving.

NAVIGATION

Option \rightarrow Option Menu Add Point of Interest \rightarrow New Point of Interest Screen (Fig. 4.9) Stop \rightarrow Walk Complete (Fig. 4.12) Swipe left across screen \rightarrow Locations on Walk List (Fig. 4.11)

4.9. New Point of Interest



This screen is used to add a point of interest. It will appear semi-transparent over the map. Adding images will open a dialogue asking whether to go to the photo library or the camera app, allowing images to be added. Images will appear between the short and long description and can be removed from here. Pressing save stores the point of interest but can be removed later.

NAVIGATION

Cancel \rightarrow Recording screen with walk (Fig. 4.10) or Recording screen (Fig. 4.9) Add Image \rightarrow Dialogue for Camera or Photo Library Save \rightarrow Recording screen with walk (Fig. 4.10) or Recording screen (Fig. 4.9)

4.10. Recording Screen With Walk



This screen is the default recording screen. All points of interest are noted as a pin on the screen. Tapping the pin displays the long and short description and any images of the point of interest. When a walk is stopped the user is prompted to save the walk. Only signed in users can upload a walk to the server. When viewing a walk, only the option button and the swipe menu will be available.

NAVIGATION

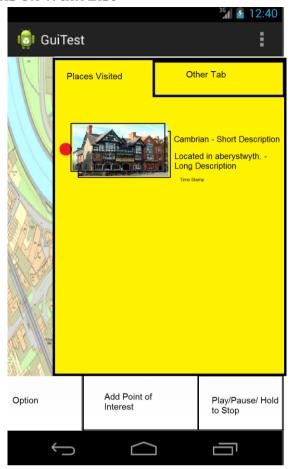
Option → Option Menu

Add Point of Interest → New Point of Interest Screen (Fig. 4.9)

Stop → Walk Complete (Fig. 4.12)

Swipe left across screen → Locations on Walk List (Fig. 4.11)

4.11. Locations on Walk List



This screen can be accessed by swiping left across the screen. To hide the menu, the user swipes right. It displays a list of all points of interest added to a walk. Tapping an image cycles through all the list of images for a point of interest, bringing them to the top. Points of interest can be removed from a walk via this screen. The walks users can also edit the long and short descriptions on this screen. This screen will pause the recording while active.

NAVIGATION

Swipe right across screen → Recording Window (Fig. 4.5) or Recording Screen (Fig. 4.8)

4.12. Walk Complete



This screen allows the user to save a walk. If upload is pressed, the walk is saved then uploaded to the server provided the user is signed in. This screen should be unavailable if there are no points of interest to prevent uploading or saving an empty walk. This screen also shows the time taken to complete a walk, the name of the walk, the number of points of interest added and the location of the walk.

NAVIGATION

Cancel \rightarrow Recording Screen with walk (Fig. 4.10) Save \rightarrow View My Walks Screen (Fig. 4.3) Upload \rightarrow View My Walks Screen (Fig. 4.3)

4.13. Options Screen



This screen is only accessible from the main menu. It allows the user to calibrate their compass and check the GPS is accurate. They can also register an account which will open the browser and redirect them to the website registrations screen.

NAVIGATION

Back to Main Menu \rightarrow Main Menu (Fig. 4.2) Register Account \rightarrow Registration Page in phone browser (Fig. 5.4) Calibrate GPS \rightarrow GPS and Compass Calibration screen.

5. Website User Interface Design

5.1. Home Page



This is the homepage of the website. From here the user can find information about the application and a link to where the mobile application can be downloaded. They can also log-in or register via this page and can view walks.

NAVIGATION

Log-in → Log-in Page (Fig. 5.3) Register → Registration Page (Fig. 5.4) View Walks → View Walks Page (Fig. 5.2)

5.2. View Walks Page



The user can view all uploaded walks via this screen. From here the user can see a small map overview of the walk and the short description of the points of interest. If the user is signed in, they can view their walks from this page.

NAVIGATION

Click on Walk → Walk Page (Fig. 5.6) Log-in → Log-in Page (Fig. 5.3) Register → Registration Page (Fig. 5.4)

register / registration rage (rig. 5.4)

View My Walks → View My Walks Page (Fig. 5.5)

Home → Home Page (Fig. 5.1)

5.3. Log-in Page



The user can log-in to their account via this page. Clicking the log-in button will refresh the current page. If the user doesn't have an account, they can click register. Clicking outside the box will take them back without logging in.

NAVIGATION

Log-in → Previous Page Register → Registration Page (Fig. 5.4) Click Outside Box → Previous Page

5.4. Registration Page



This page allows new users to create an account. Existing users may also click log-in via this page. New users must perform an authentication to prevent automated accounts being created.

NAVIGATION

Register → View Walks Page (Fig. 5.2)

 $Log-in \rightarrow Log-in Page (Fig. 5.3)$

Home → Home Page (Fig. 5.1)

5.5. View My Walks Page



This page lets users view their uploaded walks. The user can delete their walk from this screen. They can also see the time taken to delete a walk. To sign out or access account settings, a menu will be available by clicking their username. Users can also view other walks separately.

NAVIGATION

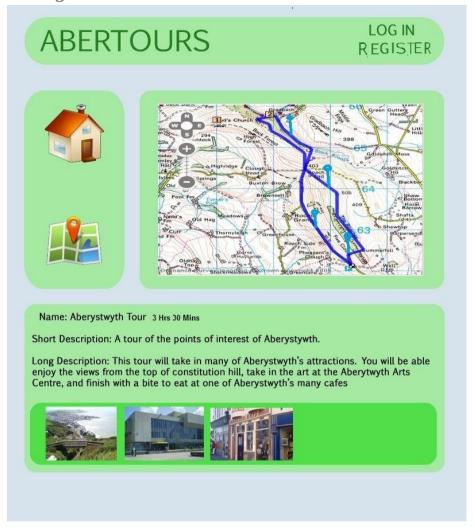
Sign out → View Walks Page (Fig. 5.2)

Click on Walk → Walk Page (Fig. 5.6)

View Walks → View Walks Page (Fig. 5.2)

Home → Home Page (Fig. 5.1)

5.6. Walk Page



This page displays a map overview of the walk, the average time taken to complete the walk and the long and short descriptions. The first image from every point of interest is displayed at the bottom of the screen.

NAVIGATION

Click on Image → Point of Interest Image Page (Fig. 5.8)

Click Pin on Map → Point of Image Selected Page (Fig. 5.7)

Delete Walk (if owner) → View Walks Page (Fig. 5.2)

View Walks → View Walks Page (Fig. 5.2)

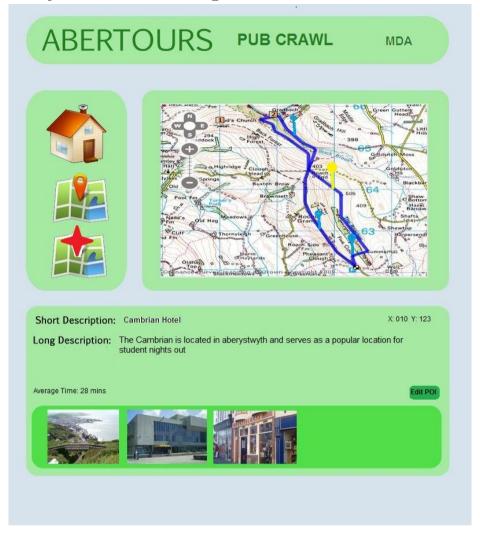
Register → Registration Page (Fig. 5.4)

 $Log-in \rightarrow Log-in Page (Fig. 5.3)$

Home → Home Page (Fig. 5.1)

Sign out (if logged in) → View Walks Page (Fig. 5.2)

5.7. Point of Interest Selected Page



Clicking on a pin on the map opens this page. The selected pin is also highlighted. The page displays the average time taken from the start of the walk to arrive at this point of interest. If there are any images taken from this point of interest, the user is can view them. If the user owns this walk, they will be able to edit the descriptions and add more images. The latitude and longitude of this point of interest is also displayed opposite the short description.

NAVIGATION

Edit POI → Edit Point of Interest Page (Fig. 5.9)

Delete Walk (if owner) → View My Walks Page (Fig. 5.5)

Click on Image → Point of Interest Image Page (Fig. 5.8)

Click Pin on Map → Point of Image Selected Page (Fig. 5.7)

View Walks → View Walks Page (Fig. 5.2)

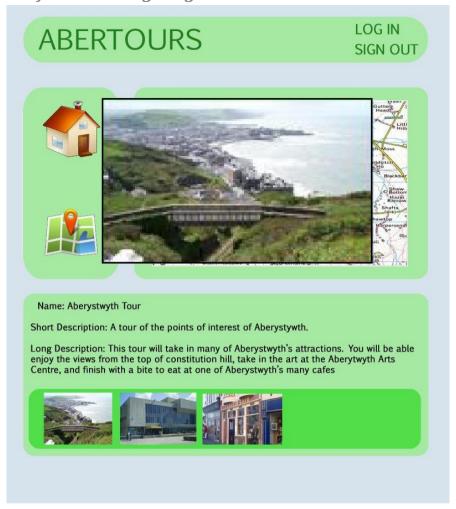
Register → Registration Page (Fig. 5.4)

 $Log-in \rightarrow Log-in Page (Fig. 5.3)$

Home → Home Page (Fig. 5.1)

Sign out (if logged in) → View Walks Page (Fig. 5.2)

5.8. Point of Interest Image Page



This simply enlarges the image clicked. Clicking outside the box minimizes the image back into the tray.

NAVIGATION

Click Outside Image → Previous Page

5.9. Edit Point of Interest Page



This page is only available if the user owns the walk. It allows users to add more images to the point of interest as well as edit the descriptions. Clicking anything other than save will undo any changes including image uploads.

NAVIGATION

Save → Walk Page (Fig. 5.6)

Delete Walk (if owner) → View My Walks Page (Fig. 5.5)

Click on Image → Point of Interest Image Page (Fig. 5.8)

Click Pin on Map → Point of Image Selected Page (Fig. 5.7)

View Walks → View Walks Page (Fig. 5.2)

Register → Registration Page (Fig. 5.4)

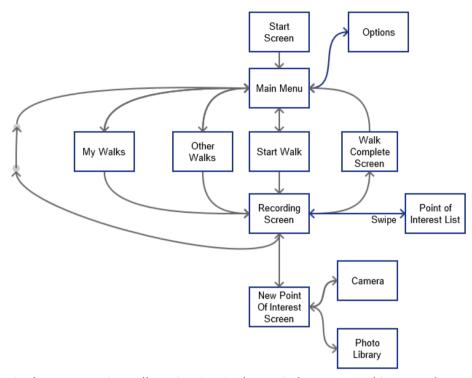
 $Log-in \rightarrow Log-in Page (Fig. 5.3)$

Home → Home Page (Fig. 5.1)

Sign out (if logged in) → View Walks Page (Fig. 5.2)

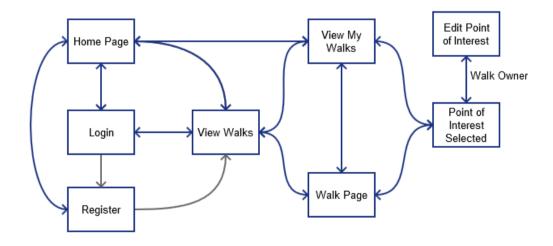
6. NAVIGATION OVERVIEW

6.1.Android



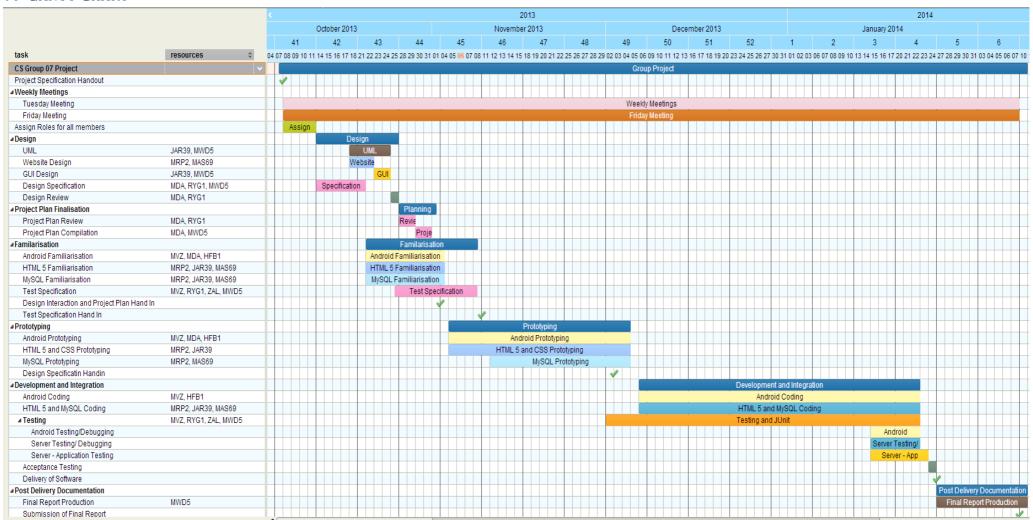
Start screen is the entry point. All navigation is done via buttons and icons unless otherwise stated

6.2. Website



Home page is the entry point. All pages link back to the home page

7. GANTT CHART



8. RISK ASSESSMENT

Event	Risk	Mitigation
Git Downtime	Low	All work should be backed up on multiple devices, preferably the University of
		Aberystwyth M: Drive and local backup locations.
Absence of	Low	The deputy team leader will take up responsibilities as required.
Team Leader		
QA Manager	Low	Team leader or deputy team leader will take up responsibilities as required.
Absence		
Poor Quality	Low	All work must be verified and monitored by both the QA Manager and the
Work		Team Leader. Deadlines for tasks are given before official deadlines to provide
		a window in which work is brought up to standard.
Problems with	Medium	In the event of inability to use the OpenSpace API, Google Maps API will be
Maps API		used due to its wide use.
Absence of	Medium	In the absence of any member, work will proceed as normal. All members
Team Member		should notify the group leader if they will be absent at the next meeting. Any
		absent member should read the minutes of the last meeting and any other
		documents produced. Continued unauthorized absence will result in warnings
		then penalties.
Project Off	Medium	Members are required to stick to the schedule and provide weekly reports on
Schedule	IVICAIAIII	all project related tasks throughout the week. In the event of failure to stick to
Schedule		the schedule, tasks must be revised to bring project back on schedule.
Server	Medium	Website and server development should be done locally and added to the
Downtime	ivieululli	university server regularly. In the event of downtime, work should proceed as
Downtime		, , , , , , , , , , , , , , , , , , , ,
University and	0.41:	normal locally. A local LAMP or similar server may be used for testing
Unrequired	Medium	Extra features should not be a priority and should not be added unless the
Features		final product meets the required specification. A copy of the final product
		must be used for adding any extra features.
Lack of	Medium	In the event of any team member being unable to do work due to not
knowledge of		knowing how to perform a task on the platform, the team leader must be
platforms		notified. Any members capable who know how to proceed will be assigned to
		performing that task. All members are required to gain as much knowledge
		about the API and languages during the familiarisation stage.
Member	High	If for any reason a member is unable to continue the project, tasks will be
Unable to		reshuffled to accommodate the change. Multiple members are assigned
Continue		,
		similar tasks to help reduce the risk in such an event.
Project		similar tasks to help reduce the risk in such an event.
Project Loss of Data	High	,
•	High	similar tasks to help reduce the risk in such an event.
•	High	similar tasks to help reduce the risk in such an event. Users are required to regularly backup data. If for any reason data is not
•	High	similar tasks to help reduce the risk in such an event. Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and
•	High High	similar tasks to help reduce the risk in such an event. Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be
Loss of Data	-	similar tasks to help reduce the risk in such an event. Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met.
Loss of Data Change in	-	similar tasks to help reduce the risk in such an event. Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met. If requirements are changed by the client, a meeting will be called
Loss of Data Change in	-	Similar tasks to help reduce the risk in such an event. Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met. If requirements are changed by the client, a meeting will be called immediately to meet the new requirements. Regular communication between
Change in Requirements	High	similar tasks to help reduce the risk in such an event. Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met. If requirements are changed by the client, a meeting will be called immediately to meet the new requirements. Regular communication between the client and the team leader is required.
Change in Requirements	High	Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met. If requirements are changed by the client, a meeting will be called immediately to meet the new requirements. Regular communication between the client and the team leader is required. The application must be thoroughly tested on at least 2 android mobile devices. Tablet compatibility is not required. In the event of hardware
Change in Requirements	High	Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met. If requirements are changed by the client, a meeting will be called immediately to meet the new requirements. Regular communication between the client and the team leader is required. The application must be thoroughly tested on at least 2 android mobile devices. Tablet compatibility is not required. In the event of hardware incompatibility or related issues, extensive debugging and testing must be
Change in Requirements Hardware Incompatibility	High High	Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met. If requirements are changed by the client, a meeting will be called immediately to meet the new requirements. Regular communication between the client and the team leader is required. The application must be thoroughly tested on at least 2 android mobile devices. Tablet compatibility is not required. In the event of hardware incompatibility or related issues, extensive debugging and testing must be done and the team leader must be notified immediately.
Change in Requirements Hardware Incompatibility Application —	High	Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met. If requirements are changed by the client, a meeting will be called immediately to meet the new requirements. Regular communication between the client and the team leader is required. The application must be thoroughly tested on at least 2 android mobile devices. Tablet compatibility is not required. In the event of hardware incompatibility or related issues, extensive debugging and testing must be done and the team leader must be notified immediately. The application should send data in the format specified. The server must be
Change in Requirements Hardware Incompatibility	High High	Users are required to regularly backup data. If for any reason data is not backed up and is lost, the group leader must be notified immediately and more work must be done to bring the project back on schedule. Tasks may be reprioritised to ensure deadlines are met. If requirements are changed by the client, a meeting will be called immediately to meet the new requirements. Regular communication between the client and the team leader is required. The application must be thoroughly tested on at least 2 android mobile devices. Tablet compatibility is not required. In the event of hardware incompatibility or related issues, extensive debugging and testing must be done and the team leader must be notified immediately.

9. Document History

Version	CCF No.	Date	Section Changes From Previous Version	Changed By
1.0	N/A	28/10/13	Original draft of document written by	MDA
			Mosopefoluwa David Adejumo	
1.1	N/A	31/10/13	Added new screens. Updated project overview	MDA
1.2	N/A	31/10/13	Updated Android user interface	MDA
1.3	N/A	2/11/13	Updated Android user interface and description. Added Website User Interface Description Added Gantt chart. Added Navigation overview Updated risk assessment	MDA
1.4	N/A	2/11/13	Added use case and descriptions. Added system overview. Updated project overview	MDA
1.5	N/A	2/11/13	Updated system overview. Updated use case. Updated UI descriptions	MDA
1.6	N/A	3/11/13	Updated Fig. 5.3 and Fig 5.4 images. Added interaction system diagram and description. Moved risk assessment to item 8	MDA
1.7	N/A	4/11/13	Updated Interaction System and replaced image. Corrected config ref number	MDA
1.8	N/A	6/11/13	Updated Gantt chart.	MDA