WikiWalks Construction Phase Status Assessment

Introduction

The key aims of the Construction Phase are:

1. Develop the application to a state where it ready for beta testing.
2. At this stage the application should have all main functionally implemented.
3. There should also be a user manual the describes how the app works, and how to use all the functionality that the application currently has.

The evidence of completion for these aims, can be found in the deliverables section of this document. The aims in this phase cover the requirements of the Operational Capability Milestone. IOCM is achieved by:

1. Having an application that is beta ready and has no know bugs. The application has all main functionality implemented and is ready to be tested by users.
2. Supplying a manual and test materials to beta testers.

This document talks about the current progress of the project and any issues that we have faced. It also shows you where you can find evidence of the completion of IOCM. It also provides a summary on the progress and any problems that the team faced during each iteration in the Construction Phase.

Executive Summary

The application is ready for beta testing as it has no known bugs. There is also a user manual that goes through all of the functionally of the app. A demo that shows how the app works can be found in the deliverables section; the demo shows all the current functionally of the WikiWalks app.

Key System Qualities and Functionality

Initial requirement analysis identified the following critical and significant system quality and functional requirements:

|  |  |  |
| --- | --- | --- |
| High | Medium | Low |

System Qualities/NRF. Key for importance.

Redundancy

Is there a redundancy in place if something fails? For example, if the Wiki Walks server failed what would happen?

If the application was to be put in a production environment, we would implement a backup server that would take over in the case of outages. A backup copy of all data could also be stored on a DR (Disaster Recovery) site is case of major server outages.

Security

Storing location data can be very high risk.

Location information can be very sensitive and needs to be stored securely. We need to consider making a login system in-case a user’s devices is stollen, the device that was stolen could be used for devious things and the person that stole it can pretend to be someone who they are not.

The main risk is having a path that is created that leads onto private property and not knowing who created the paths.

What happens if a user gets injured on these paths? Who is to blame?

Usability

How easy is the app to use currently?

The WikiWalks application has been designed to be easy to use and navigate. Users of all ages and technical abilities should be able to use the Wiki Walks app without any difficulty.

Performance

Is the app able to run without any performance issues?

Currently there are no major performance issues with the app but, when using the GPS on a phone it can drain the battery faster.

Screen Adaption

Is the app able to adapt to different screen sizes?

The app looks the same on all devices, even if the size, resolution and rotation of the device changes.

Currently we have no issues with how the app looks on different devices.

Functional Requirements

* + - The user is able to record and submit a path to the Wiki Walks Server.
    - User can schedule and attended group walks.
    - The user is able to add Point of Interests to a path.
    - The user can add to reviews to paths.
    - User is having the ability to add images to POI’s.
    - User can Bookmark paths.

1. Deliverables
   1. Beta Ready Version of the Product

The beta ready version of the app can be found in Wiki Walks GitHub repo [here](https://github.com/GoJoeyGo/WikiWalks/blob/master/IOCM_Deliverables/User%20Manual.docx).

A walk though video for the application can be found [here](https://drive.google.com/open?id=17BmHwZc0HlA0fnLs0hSuqhQTeQBtKgfm).

* 1. Supporting Test Evidence
     1. All test evidence can be found in the test model document that can be found [here](https://github.com/GoJoeyGo/WikiWalks/blob/master/IOCM_Deliverables/WikiWalksTesting.docx). The document goes through all of the main functionality of the WikiWalks app. The tests that are done check that there are no remaining bugs that were missed, and to ensure that the app is working as originally intended.
  2. User Manual

The user manual has been completed and will be given to the beta testers in the form or a text document. It goes though of the current functionality of the app and how the app is meant to behave when using it. The user manual can be found [here.](https://github.com/GoJoeyGo/WikiWalks/blob/master/IOCM_Deliverables/User%20Manual.docx)

1. Iterations
   1. Construction Iteration 1

The goals for this iteration was to implement the bellow.

1. The app can mark point of interest on a path and submit them to the server.
2. The app is able to pull points of interest from the server and display them in the app.
3. The app can submit reviews and images for paths and POI’s.
4. The has the ability to pull reviews and images from the server.

Issues during this iteration.

* The networking library that we were using did not support uploading images. The library that we were using was Volley, we have now switched to Retrofit to support the uploading of images.

Summary

Most of the items in this iteration were completed on time and the app is now able to pull and display points of interests and show and upload reviews and pictures for paths and points of interest.

The project status is currently GREEN.

Delays and setbacks.

* Submitting points of interest is almost done and will be completed within the next day.

* 1. Construction Iteration 2

The goals for this iteration was to implement the bellow.

1. The app is able to schedule group walks.

2. The app can pull and show group walks including who is attending.

3. The app has the ability to bookmark paths for later so you can easily find them later.

Issues during this iteration.

* The book-marking function had to be changed due the “terms of use” for the Google maps service. Originally for bookmarking the plan was to save maps offline but this is no-longer done.

Summary

At the end of this iteration the project has fallen behind. The Bookmarking of paths was implemented properly however, as mentioned, we were not able to save maps offline. The other two work items (1,2) were not completed and will need to be completed in the next iteration. Also, all remaining work for previous iterations has been completed.

Current project status is YELLOW.

Delays and setbacks.

* All items relating to group walks have not been completed and extra time will have to be allocated to complete them.
  1. Construction Iteration 3

The goals for this iteration was to implement the bellow.

1. The app tracks stats like distance walked, longest walk, average walk and much more.

2. The app has an area where you can set goals to walk a certain distance over a period of time.

3. The app can import and export data in the form of .json files.

Issues during this iteration.

* There were no issues found during this iteration.

Summary

The ability to backup and restore settings has been implemented without the addition of any known bugs. All outstanding work from past iterations has been completed.

Current project status is YELLOW.

Delays and setbacks.

* Other items in the iteration have not been completed. Tracking statistics is expected to be completed within a few days, however there is no timeframe for setting distance goals.

1. General Issues

There are clearly some time management issues, and extra effort will be needed in order to get the project back into the GREEN status. Also, there were some issues with a network library that we were previously using. We have now switched to a new library in order to have the ability to upload images to the WikiWalks server without any issues.