**Project Plan**

**T32 GBC Navigation App**

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| --- | --- |
| Stakeholder | Jawad Butt |
| Primary Instructor | Anjana Shah |
| Team Member | Mike Denton |
| Team Member | Jason Thai |
| Team Member | Talha Sultan |

Document Revision History

|  |  |
| --- | --- |
| Revision # | Date |
| 2 | 2020-01-17 |

**1. Executive Summary**

The following describes the project to be executed.

|  |  |
| --- | --- |
| Objective | The main purpose of this Project Plan is to define the core components of the GBC Navigation application. The navigation app will be designed to help GBC students and visitors to navigate through the campus buildings, floors and parking lots. The project plan will help us to reduce the risks and establish high expectations. This document also contains agreement between our stakeholder and among all of the team members involved in this application development. |
| Corporate Goals Addressed | To implement a tool to monitor app performance and to have consistent UI for user friendly experience |
| Planned Start Date | October 2, 2019 |
| Planned End Date | March 27, 2020 |

**2. Project Approvers, Reviews and Distribution List**

Approvers, reviewers and distribution list

|  |  |  |  |
| --- | --- | --- | --- |
| Project Role | Name | E-mail | Date |
| Project Manager | Jawad Butt | Jbutt3@georgebrown.ca | January 18, 2020 |
| Team Leader | Mike Denton | mike.denton@georgebrown.ca | January 18, 2020 |
| Backend/Frontend Developer | Muhammad Talha Sultan | muhammadtalha.sultan@georgebrown.ca | January 18, 2020 |
| Database Developer / Tester | Jason Thai | jason.thai@georgebrown.ca | January 18, 2020 |

**3. Scope**

Define the sum total of all of its products and their requirements or features.

|  |  |
| --- | --- |
| In Scope | Out of Scope |
| Draw destination route on the map based on the origin | Intended only for visitors and George brown students |
| Using static origin / destination coordinates stored in the database | Cannot be used for locations outside the Casa Loma campus |
| GPS to determine whether user is in the vicinity of the campus | Must be online to use the application |

**4. Deliverables**

This project will deliver the following.

|  |  |
| --- | --- |
| Deliverable | Description |
| Free Download | Use of free technologies and software allows for the application to be released at no cost – there’s no need to charge for downloading |
| Notifications | Users will be notified when the application is down for maintenance or other work |

**5. Assumptions**

This project makes the following assumptions;

* Framework decision to move from NativeScript to Ionic due to tool limitations
* Database moved from Mongo to Firebase for more administrative tools
* Google Fire Cloud Messaging (FCM) plugin for push notifications in case of app failures
* Ionic GPS feature for detecting boundary of image.

**6. Dependencies**

**Internals:**

* Users using GPS features of the app to determine the boundary of the campus and detect GBC’s wireless network
* Team design of maps (interior/exterior) to provide better accessibility for users
* Database (Firebase) to monitor app performance

**Externals:**

* Internet access (available only online)
* User satisfaction based on any sort of feedback/usage/etc

**7. Risk Management**

|  |  |  |  |
| --- | --- | --- | --- |
| Potential Risk | Severity (H/M/L) | Likelihood (H/M/L) | Management Strategy |
| GPS boundary detection on a static image | M | M | Consult Lead Developer for alternatives |
| Unable to perform field testing | M | M | Use available tools for testing |
| Data loss | H | L | Version Control System tool: GitHub to upload latest changes as well as having local changes |

**8. Communication**

**Reporting**

The following reports will be produced;

|  |  |  |
| --- | --- | --- |
| Report | Audience | Frequency |
| Minutes of meetings | T32 | Bi-weekly |
| Requirements Analysis and Design | T32 | Once |
| Sprint 4 | T32 | Once |

**Meetings**

The following meetings/communication will be established;

|  |  |  |  |
| --- | --- | --- | --- |
| Meeting | Purpose | Attendees | Frequency |
| Minutes of meeting 1 | Discussion of project scope | All T32 members | Once |
| Minutes of meeting 2 | Continuation of project scope and technology requirements | All T32 members | Once |
| Minutes of meeting 3 | Discussing mockups and in depth requirements | All T32 members | Once |
| Minutes of meeting 4 | Present demo of prototype to stakeholder  Check project progress and discuss possible features | All T32 members | Once |

**9. Task Listing (WBS- Work Breakdown Structure)**

|  |  |  |  |
| --- | --- | --- | --- |
| Reference | Tasks | Duration | Dependency |
| Jason Thai  Talha Sultan | Documenting **Minutes of meeting** | 1 hr | All members discussions |
| Jason Thai  Talha Sultan | List tools and requirements need in the ‘**Requirements Analysis and Design**’ document | 3 hrs | **‘Minutes of meeting**’ for the scope of the project |
| Jason Thai  Talha Sultan | Completing the **Project Plan** | 4 hrs | Previous documentation of ‘**Requirements analysis and design’** |
| Jason Thai  Talha Sultan | Completing the **Project Status Report** | 1 hr | ‘**Requirements analysis and design’** and **‘Minutes of meeting**’for referrals |

**10. Gantt Chart**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Task | Period | | | | | | | | | | Completed |
|  | Dates | Dates | Dates | Dates | Dates | Dates | Dates | Dates | Dates | Dates |  |
| Minutes of meeting | OCT/30/2019 | NOV/20/2019 | DEC/11/2019 | JAN/15/2020 |  |  |  |  |  |  | JAN/15/2020 |
| Project Plan | JAN/12/ 2020 | JAN/13/ 2020 | JAN/14/2020 | JAN/15/2020 |  |  |  |  |  |  | JAN/17/2020 |
| Project Status Report | JAN/12/2020 |  |  |  |  |  |  |  |  |  | JAN/12/2020 |
| Sprint 4 | NOV/06/2019 | NOV/11/2019 | NOV/22/219 | NOV/25/2019 |  |  |  |  |  |  | NOV/25/2019 |

**11. Milestones**

|  |  |  |
| --- | --- | --- |
| Major Activity or Milestone | Estimated Milestone Target date | Owner/Reviewer Team Members |
| Sprint 4 | JAN/25/2019 | JAN/23/2019 |
| Project Plan | JAN/17/2020 | JAN/18/2020 |
| Minutes of Meeting | JAN/15/2020 | JAN/15/2020 |

**12. RAM – Responsibility Assignment Matrix**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project name:** GBC Navigation App | | **Project Manager:** Talha Sultan | |
|  | | | |
| **Tasks** | Talha Sultan | | Jason Thai |
| Minutes of Meeting | **P** | | **P** |
| Requirements Analysis and Design | **P** | | **P** |
| Project Plan | **P** | | **P** |
| Project Status Report | **S** | | **S** |

**13. Approval**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Role | Name | Signature | Date |
| Developer | Jason Thai | J.T | 2020-01-12 |
| Developer | Talha Sultan | T.S | 2020-01-12 |
| Lead developer | Mike Denton | M.D | 2020-01-18 |
| Stakeholder | Jawad Butt | J.B | 2020-01-18 |
|  |  |  |  |
|  |  |  |  |