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| BCIT Construction  Management Plan |
| BCIT school of construction |
|  |
| **Alex Cho**  **Ewan Watt**  **Francis Gau**  **Jonathan Kwong**  **Rajwinder Kaur**  **Jasbir Singh**  **Simrat Kaur** |

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# **1.** **Document Version**

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| --- | --- | --- | --- |
| **Version** | **Description** | **Date** | **Author(s)** |
| **1** | V1.0 | 16/01/2020 | Alex Cho, Ewan, Francis, Jonathan |
| **2** |  |  |  |
| **3** |  |  |  |
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# **2.** **Introduction**

## **2.1.** **Team contact information**

|  |  |  |
| --- | --- | --- |
| **Name** | **Email** | **Phone Number** |
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| Rajwinder Kaur | rajwinderturna123@gmail.com | 778-798-8081 |

## **2.2.** **Stakeholders and Users**

* Michal Aibin (Instructor)
  + BCIT instructor who provides guidance and advice throughout the whole project.
* BCIT students
  + Target users for the app
  + Locating and Discovering native plants that has significant influence in Indigenous culture using the database while touring/exploring the Burnaby campus.
* BCIT School of Construction and Environment & BCIT Indigenous Services (Client)
  + Sponsor of the project
  + Provide context and ideas of the app, and decide project success.
  + Organizing the Campus waypoints and providing information on Indigenous plants

## **2.3.** **Project Description**

The app is designed to connect BCIT students to explore the Burnaby Campus for better understanding of the culture of Indigenous people. This app allows BCIT students to locate and learn about plants with significant influence in Indigenous culture while exploring the Burnaby campus. It also allows BCIT students to search through a directory by filtering the plants on medicinal use, and significance in Indigenous culture.

The BCIT School of Construction and Environment will also make use of the application. They can use the admin interface to add, change, or remove information of plants and campus waypoints.

## **2.4.** **Project Goals, Tasks, Features**

Create a mobile application that engages with users, motivating them to explore the BCIT burnaby campus and view the various indigenous sights around the campus. The application will connect to a database, retrieve information about the various sights to see and have a map for helping the user to explore the campus.

Features

* Plant Database
  + List of all plants within the campus
  + Filter the plants/trees based on preferences (e.g. - medicinal , traditional , food etc.)
* Map
  + Google map of BCIT Burnaby Campus
  + Wayfinding function
* Plant Info page
  + Provide detailed information about plants mainly name, history and uses
* Admin panel
  + Add/Edit/Remove plant information
  + Add/Edit/Remove waypoints

# **3.** **Project Scope**

## **3.1.** **Existing System**

No existing system in place.

## **3.2.** **Proposed Solution**

We will deliver a mobile application that’ll help spread awareness of indigenous plants, including information like their history, uses and any stories related to them. The application will include a general database if one were to be interested in looking up specific plants or categories of plants

## **3.3.** **Diagrams/ Analyses**

No Diagrams

## **3.3.1.** **Client Diagrams**

Client did not supply any diagrams

## **3.3.2.** **Team Diagrams**

No Diagrams

## **3.4.** **Alternative Solutions**

Web based application

## **3.5.** **Proposed Technology**

* Main application with all the core functionality will be made in React Native.
* We will use Firebase to store the data on the plants.
* For the admin access we will be creating an HTML form for our clients to use

## **3.6.** **Deliverables**

|  |  |
| --- | --- |
| **Deliverable** | **Description** |
| Applications | An android and potentially apple compatible application meant to increase awareness of indigenous plants through an engaging user interface. |

## **3.7.** **Out of Scope**

* Alternated Reality interactions with indigenous plants.
* Image recognition for plants through the use of the phone’s camera.

# **4.** **Key Assumptions**

## **4.1.** **Non-Technical Assumptions**

* Client will supply us with plants to use as an example
* Clients will handle deployment fees

## **4.2.** **Technical Assumptions**

* Students will setup backend support
* Students will setup admin access
* Firebase will be used to host the database
* React native will be used to make the application

# **5.** **High-Level Schedule**

|  |  |  |
| --- | --- | --- |
| **Owner** | **Description** | **Completion Date** |
| Jasbir, Rajwinder, Simrat, Jonathan | UI/UX for Figma | 2020-01-13 |
| Alex Cho | Database Setup | *2020-01-14* |
| Francis | React Native templates setup | *2020-01-20* |
| TBA | Plant information implementation into Firebase | *2020-01-29* |
| TBA | Plant Information display | *2020-02-15* |
| TBA | Admin access web application | *2020-02-22* |
| TBA | Wayfinding feature | *2020-03-20* |
| TBA | Bug fixes/Polishing | *2020-04-02* |

# **6.** **Risks and Issues**

|  |  |  |
| --- | --- | --- |
| **Risk or Issue Description** | **Potential Impact** | **Mitigation/Resolution Steps** |
| Routes for the google map not working on such a small scale | Wouldn't have access to built in google map functionality | Test the map on the campus early in the project and if the google map directions don’t work we can hardcode routes |
| Filling up the storage of the firebase with all of the images for the plants | Won’t be able to store any more plant data to the database. | Ask client to expand database.  Or compress the image files. |
| Snow affects group/client meeting | Disrupt meetings and affect group communication. | Set up a meeting over the internet with either a video/voice group call or messaging over the discord server we have set up. |
| Unauthorized admin access | Database would have to be cleaned and re-created | Separate the app and the admin access. |