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| Dragon Boat Utility Application |
| Project Vision Document | |
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**Revision History**

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| --- | --- | --- | --- |
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# Introduction

The Project Vision statement for the Dragon Boat utility app will list some of the required details pertaining to this project. This statement will outline general information regarding the users, stakeholders, and our company, along with basic details including features and project scope. Other required information including the project summary and high level requirements are stated in separate forms included in this package.

## Purpose

The documents provided in this statement will contain the necessary details and information regarding the Dragon Boat Utility Application. This Data will include, but not be limited to, the Scope of the product, the goal of the product and the issue that the product will resolve, any strengths, weakness, concerns of benefits that will be tied to the product during and after development, any information or requests provided by the current stakeholders, and the features that the product will provide. Motivations for our corporation participating in this opportunity will be to provide a unique boating application that is currently lacking in the marketplace. The utilities and options offered by this application will make it a value tool that will be utilized by many consumers wanting a powerful application such as this.

## Scope

### In Scope

* A drag-and-drop GUI for efficient management of team members
* information displays on the Dragon Boat’s current details such as seating of members in the boat, weight distribution of the boat and its members, seating optimization.
* A map interface with location tracking and route mapping.
* Details about the boat’s navigation including direction, distance, velocity, etc.

### Out of Scope

* Custom map paths or advanced pathfinding

## Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| Term | Explanation |
| GUI | Acronym: Graphical User Interface |
| GBC | Acronym: George Brown College |
| IDE | Acronym: Integrated Development Environment |

## References

*(No External References Referred to in this document)*

# Positioning

## Business Opportunity

The opportunity provided by this project would be to engage the corporation in the development of a unique product that is currently lacking in the marketplace. A project such as this provides a benefit to not only the corporation, but the consumers as well. The Application would give the corporation a form of identity by being responsible for its development, while also providing our users with an original product that will assist them with their needs.

## Problem Statement

The problem of coordinating optimized dragon boat member placement by manual methods affects the individuals involved with dragon boat activities, either as a team member or a team leader. The impact of which is a time consuming and inefficient method of dragon boat seating assignment, followed by a lack of information regarding the performance of the dragon boat team. A successful solution would be a software application offering algorithms that will allow for the process of dragon boat member placement to be achieved with great efficiency, in addition to provide a variety of tools and data that will allow for crucial information about the dragon boat team’s performance to be recorded with ease.

## Product Position Statement

|  |  |
| --- | --- |
| For | GBC Dragon Boat Team Members |
| Who | Engage in Dragon Boat activities, races, and training |
| The Dragon Boat Utility Application | Is a multiplatform and multipurpose boating application |
| That | Provides a unique set of tools that will assist for team member placement and offer valuable information about the performance of the dragon boat members |
| Unlike | Many of the applications offer in today’s market, which are often lacking in features or needs required for dragon boat. |
| Our product | Is designed to meet the specific requirements needed for those involved with the dragon boat teams |

Table 2 Product Position Statement

## SWOT Analysis

## <Reference: <https://www.businessballs.com/strategy-innovation/swot-analysis/>)

|  |  |
| --- | --- |
| Strengths | Weaknesses |
| A unique product with little competition | Small Development team |
| More functionality and features than other applications in the marketplace | Little experience in the mobile development field |
| Team members have previous experience with each other involving multiple past projects | IT language for product development still undecided |
| Provides multiple features not fully limited to just Dragon Boat | Time frame dependent on education schedule |
| Supported on Multiple Platforms |  |
| Not Limited By Budget |  |
| High experience in the web development field |  |
| **Opportunities** | **Threats** |
| Valuable training and experience within the mobile development field | Demand in marketplace is dependent on an annual schedule, |
| Possibility of future development in similar fields or style | Potential of Failure due to low experience the field |

# Stakeholder and User Descriptions

## Stakeholder Summary

| Stakeholder Name | Represents | Role |
| --- | --- | --- |
| GBC Dragon Boat Team | The Main Stakeholder than will be using the Dragon Boat Utility Application upon its completion | Occasional Monitoring of project progress |

Table 3 Stakeholder Summary

## User Summary

| User Name | Description | Responsibilities | Stakeholder |
| --- | --- | --- | --- |
| Drummer / Crew | Member(s) of the Dragon Boat Team who will be using the application during races | Provides requirements for application | GBC Dragon Boat Team |
| Team Manager | Individual responsible for coordinating the team members and assigning them into the boat | Provides requirements for application | GBC Dragon Boat Team |

Table 4 User Summary

# Stakeholder Requirements

| ID | Requirement | Stakeholder |
| --- | --- | --- |
| 1 | Method to decide who will be part of a specific Dragon Boat team | GBC Dragon Boat Team |
| 2 | An efficient way to handle the management of team members who will be in the Dragon Boat, while keeping certain factors in mind | GBC Dragon Boat Team |
| 3 | A way to provide and track information based on the performance of the dragon boat team | GBC Dragon Boat Team |

Table 5 Stakeholder Requirements

# System Features

| ID | Feature | Stakeholder Requirement ID |
| --- | --- | --- |
| 1 | A list of all available Dragon Boat team members that can be selected for specific boat teams with ease | 3 |
| 2 | A drag-and-drop interface that allows for efficient scheduling of team members in the boat while tracking requirements such as weight distribution using algebraic methods | 1 |
| 3 | A map interface that tracks the position of the boat | 4 |
| 3 | Tracking and recording details such as velocity, distance, direction of the boat to evaluate performance | 2 |

Table 6 System Features

# Assumptions

* In Scope Requirements are not final, only based on current requirements and recommendations. Further features or requirements may appear in the future.
* Name of product is subject to change until group has fully agreed upon a proper name

# Constraints

* Progress pertaining to the development of this project will be dependent on the education schedule of the members developing this product.
* IDE’s and other sources of programs will be limited to open source or free availability over enterprise or professional versions.