

# Project Plan Document

**CECS 491**

**TheBoiZ**



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**Date:** November 12, 2019

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## 1. OVERVIEW

**Applications To Scrum:** This project will use the Agile methodology through Scrum to progress through the required deliverables. Our purpose in using Scrum is found in it's benefits. These benefits include: frequent feedback on our progress and iterative releases of our product.

**Total # of Sprints:** ~ 18 Sprints - Two Weeks Periods, Sprint Retrospectives on Tuesdays

**Sprint Velocity :** ~ 120 Hours - 10 Hours per Member each Week

**Total Project Hours:** ~ 2160 Hours - 18 Sprints \* 120 Hours, Over an 8 Month Period

**Total Complexity Levels:** ~ 109 Total Complexity of all Features

**Priority:** The level of importance the process has for the application

**Complexity:** The amount of work that will be implemented in working on each process

*Note:* The priority and complexity categories are ranged from 1 to 5, with 1 being the lowest and 5 being the highest

<u>Process</u>	<u>Priority</u>	<u>Complexity</u>	<u>Deadline</u>
User Creation	5	5	01/14/20
Event Creation	5	4	01/21/20
Tournament Bracket Creation	5	4	02/04/20
Search Feature	3	5	02/11/20
Registration for Event and Tournament Bracket	3	2	02/18/20
Follow Feature	3	3	02/25/20
User Interface / User Experience	3	3	03/03/20
Comment on Tournament Bracket	1	3	03/10/20
Messenger	1	3	03/10/20
Sample of complete product for test	2	4	03/17/20

## 2. FEATURE BREAKDOWN

### 2.1 Milestone 1: Sprints 1 - 3 (09/02/19 - 10/12/19)

SPRINT	PRIORITY	COMPLEXITY	HOURS
<b>Sprint 1 (09/02 - 09/14)</b>			
Product Brainstorm	1	5	10
Draft Request for Proposal	2	3	6
<b>Sprint 2 (09/16 - 09/28)</b>			
BRD	1	4	40
Design Doc	3	3	15
Tech Spec	2	5	40
<b>Sprint 3 (09/30 - 10/12)</b>			
BRD	1	4	40
Project Plan	2	5	25
Project Roadmap	3	2	10
Site map	4	1	2

**2.2 Milestone 2: Sprints 4 - 7 (10/14/19 - 11/22/19)**

SPRINT	PRIORITY	COMPLEXITY	HOURS
<b>Sprint 4 (10/14 - 10/29)</b>			
Revised Milestone 1			
BRD	1	3	15
Design Doc	3	1	15
Site map	6	1	5
Tech Spec	5	4	10
Project Plan	2	4	15
Project Roadmap	4	3	10
Error Handling	7	3	15
<b>Sprint 5 (10/30 - 11/12) R&amp;D</b>			
Error Handling	1	3	15
Logging	2	1	10
Archiving	4	3	25
Revise Documents	3	5	10
<b>Sprint 6 (11/13 - 11/26) R&amp;D</b>			
Registration	2	3	15
Authentication	3	3	10
Authorization	4	3	10
Revise Documents	1	5	5

SPRINT	PRIORITY	COMPLEXITY	HOURS
<b>Sprint 7 (11/27 - 12/10) Finalize</b>			
Error Handling	1	3	10
Logging	2	1	5
Archiving	6	2	12
Registration	5	3	10
Authentication	3	3	8
Authorization	4	3	8
Code Review			

**2.3 Milestone 3: Sprints 8 - 13 (12/11/19 - 3/4/20)**

SPRINT	PRIORITY	COMPLEXITY	HOURS
<b>Sprint 8 (12/11 - 12/24) Break</b>			
Account Registration	1	3	10
<b>Sprint 9 (12/25 - 1/7) Break</b>			
Account Management	1	2	8
Account Recovery	2	1	5
<b>Sprint 10 (1/8 - 1/21)</b>			
Search Feature	1	4	30
<b>Sprint 11(1/22 - 2/4)</b>			
Comment Feature	1	2	10
Message Feature	2	4	20
<b>Sprint 12 (2/5 - 2/18)</b>			
Follow Feature	3	2	10
Create Tournament Bracket	1	3	15
Create Event	2	4	30
<b>Sprint 13 (2/19 - 3/3)</b>			
Register Feature	1	2	10
Unregister Feature	2	1	5

**2.4 Milestone 4: Sprints 14 - 18 (3/4/20 - 5/5/20)**

SPRINT	PRIORITY	COMPLEXITY	HOURS
<b>Sprint 14 (3/4 - 3/17)</b>			
Profile Customization	1	1	3
Manage Follow List	2	1	3
<b>Sprint 15 (3/18 - 3/31)</b>			
Update Tournament Bracket	1	2	5
Update Event	2	2	5
Delete Feature	3	1	3
<b>Sprint 16 (4/1 - 4/14)</b>			
Manage Tournament Bracket	1	2	5
Delegate Responsibilities	2	2	5
<b>Sprint 17 (4/15 - 4/28)</b>			
Competitor Features	1	4	25
Match Check In	2	3	10
<b>Sprint 18 (4/29 - 5/12)</b>			
Substitute Feature	1	3	10



### **3. RISKS, RESOURCES, COSTS**

#### **3.1 Risks**

- Unable to complete tasks on time
- Research time on resources / technologies may halt development
- Inability to secure minimum utilities for the project
- Design patterns are inadequate
- Team members drop class or responsibilities
- Team members fall ill or become unavailable due to extraneous circumstances

#### **3.2 Resources**

- The team is comprised of six different members; each with their own skills and specialties
- Each team member is equipped with their own development environment
- Access to technologies and applications to support development

#### **3.3 Costs**

- The project will rely on Google Cloud services for development and hosting of the application. Each member is given a set amount of currency within Google Cloud to which they can purchase any component that is necessary for the project
- Otherwise the project will have minimal cost to produce this product