NSCC Project Charter  
Short Track Web App Upgrades

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## Section 1. Charter Introduction

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| --- | --- | --- | --- |
| **Revision Number** | **Date of Issue** | **Author(s)** | **Brief Description of Change** |
| 1.0 | 2022-01-13 | Seamus, Samuel, André | Creation of the document. |
| 1.1 | 2022-01-14 | Seamus, Samuel, André | Completion of Project Charter |
|  |  |  |  |

### 1.1 Authorization

This Project Charter, for the creation of a NSCC Information Technology Program website has been reviewed in full and approved by the following:

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Kellie Durning

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Matt Redmond

## Section 2. Project Overview

### 2.1 Project summary

* Create a web application for Colchester Short Track (CST) racing
* Create an admin tool for CST
* Create user portal for CST
* Minimize costs as CST is a volunteer group
* Create documentation for ease of maintenance
* Maintain similar user flow to current application

### 

### 2.2 Project scope

#### 2.2.1 Scope definition

In Scope:

* Use Machine Learning tools to record short track participants lap count
* Create web application for CST racing
* Create Admin Area for organizers to administer application
* Allow Users to register for races, buy plates
* Collect payment for registration, plate purchase
* Allow users to maintain their account without admin intervention
* Allow users to participate in races through checking if for each race
* Administer point scoring
* Display results to admins/users
* Allow for manual overriding of results from machine learning tool

Out of Scope:

* Recording Video of CST races
* Hosting Costs
* Long-term maintenance

### 

### 2.3 Deliverables

|  |  |
| --- | --- |
| **Project Deliverable 1:** | **Database** |
| Description: | Database related functionality of original web app is implemented and improved to allow for editing. This includes changing the porting in the current userbase and updates. |
| Acceptance criteria: | Kellie Durning |
| Due date: | Feb 1, 2022 |
| Dependencies: | N/a |
| **Project Deliverable 2:** | **Back End Applications** |
| Description: | Creation of API routes for communication between database and front-end application.  Administering of point allocation |
| Acceptance criteria: | Kellie Durning |
| Due date: | Feb 18th, 2022 |
| Dependencies: | Database must be functional, not populated |
| **Project Deliverable 3:** | **Homepage/Login** |
| Description: | A landing page for the website – funneling users to the area they are looking for  A login page which users can use to login to the back end of the website  A registration page for new users to sign up for the application |
| Acceptance criteria: | Kellie Durning |
| Due date: | March 1st, 2022 |
| Dependencies: | Conditional on back-end applications being built out to the degree which would allow for front-end application to be populated for testing etc. |
| **Project Deliverable 4:** | **Sign Up** |
| Description: | Racer sign up form for creating account and adding information. Ability to purchase plate or add existing plate. |
| Acceptance criteria: | Kellie Durning |
| Due date: | March 15th, 2022 |
| Dependencies: | Database available to use for testing. |
| **Project Deliverable 5:** | **Results** |
| Description: | See the results of completed races and all relevant information. |
| Acceptance criteria: | Kellie Durning |
| Due date: | March 30th, 2022 |
| Dependencies: | Database available to use and at least one race complete. |
| **Project Deliverable 6:** | **Machine Learning tool** |
| Description: | Machine Learning tool using AWS Rekognition to take recorded video of a race. |
| Acceptance criteria: | Kellie Durning |
| Due date: | April 12th, 2022 |
| Dependencies: | Front End Allowing for video uploading, |
| **Project Deliverable 7:** | **Documentation** |
| Description: | Documentation on the implementation of this web application. This will include front-end, back-end, database schema, server information, Api-routes, instructions for maintaining |
| Acceptance criteria: | Kellie Durning |
| Due date: | April 12th, 2022 |
| Dependencies: | Front-end application  Back-end application  Hosting information (provided by outside resource)  Database (from back-end application)  Machine learning tool |

### 2.4 Project cost estimate and sources of funding

|  | **Hours** | **Wage** | **Total Cost** |  |
| --- | --- | --- | --- | --- |
| EC2 hosting | 8760 | $0.0046USD/hr | ~$50USD |  |
| AWS Rekognition | 8+ | ~6.00USD/hr | ~$50USD |  |
| **Totals** |  |  | $100.00USD |  |

## 

## Section 3. Project Organization

### 3.1 Roles and responsibilities

| **Role** | **Description** | **Name/Title** |
| --- | --- | --- |
| Developer | Front End Development, Back-end Development, Database Management, Machine Learning developer, Documentation Writing, Testing | Andre Saliba |
| Developer | Front End Development, Back-End Development, Database Management, Machine Learning, Testing, Documentation Writing | Samuel Burak |
| Developer | Front End Development, Back-End Development, Database Management, Machine Learning, Testing, Documentation Writing | Seamus Moore |
| Testing | Contribute opinion, testing, knowledge, and other personal resources | Seamus Moore, Andre Saliba, Samuel Burak |
| Subject Matter Expert | Broad knowledge of implementation and development | Matt Redmond |

### 3.2 Project facilities and resources

* Git Repository
* Existing codebase
* Existing stock footage
* Existing deployments of software
* AWS Lightsail Server
* AWS Rekognition
* DNS Service (AWS Route 53?)

## Section 4. Glossary and Acronyms

|  |  |
| --- | --- |
| **Term or Acronym** | **Definition** |
|  |  |

|  |  |
| --- | --- |
| Acronym | Description |
| IT | Information Technology |
| CST | Colchester Short Track |
| AWS | Amazon Web Service |
| EC2 | Elastic Cloud Computing |