Test Plan

ChangeLog

Version	Change Date	By	Description
version number	Date of Change	Name of person who made changes	Description of the changes made

1 Introduction

Brief introduction of the test strategies, process, workflow and methodologies used for the project

1.1 Scope

1.1.1 In Scope

Each component of Mars Map Maker shall be tested through the unit testing of its functions that do not integrate/rely on other components and/or other technologies.

1.1.2 Out of Scope

Functionality of dependencies such as the Redux store/papaparse and non-functional requirements shall not be subjected to testing.

1.2 Quality Objective

To establish validity of the operation and output of the separate components and individual functions in the project and to identify and fix possible bugs.

1.3 Roles and Responsibilities

- Test Development - Robert Niggebrugge: Creates test cases for execution.
- Test Documentation - Cormac Conahan: Compiles results of tests, verifies results, catalogues and reports results.
- Test Design - Seth Hinson: Determines units to be tested and how they should be tested.

2 Test Methodology

2.1 Overview

The overall development process of Mars Map Maker is an Agile process. We are now trying to implement testing within the development process. Specifically the testing methodology that will be used is a mixture of iterative and extreme programming. These methodologies are used because of their flexibility in relation to the client and their tight cycles that allow for quick pivoting based on new requirements/results from testing.

2.2 Test Levels

This plan will specifically only be concerned with unit testing and will not incorporate integration, system, or application testing.

2.3 Test Completeness

- 100% test coverage
- All Manual & Automated Test cases executed
- All open bugs are fixed or will be fixed in next release

3 Test Cases

A summary of our test cases on a google sheet located here.

Case ID	Test Name	Designed By	Description
App1	appRender	Robert	Asserts that the App component renders to the React DOM and therefore appears on the screen.
CheckBox1	checkBoxRender	Seth	Asserts that the CheckBox component renders to the React DOM and therefore appears on the screen.
FileIn1	fileInRender	Seth	Asserts that the FileIn component renders to the React DOM and therefore appears on the screen.
CardList1	cardListRender	Robert	Asserts that the CardList component renders to the React DOM and therefore appears on the screen.
DateDrop1	dateDropdownRender	Cormac	Asserts that the DateDropdown component renders to the React DOM and therefore appears on the screen.

4 Resource & Environment Needs

4.1 Testing Tools

- Node Package Manager
- Create-React-App
- Jest
- Enzyme

4.2 Test Environment

- Ubuntu 20.04.1

5 Terms/Acronyms

TERM/ACRONYM	DEFINITION
API	Application Program Interface
AUT	Application Under Test