**Test Plan Support Application**

Definition of Done V1.0 | 2/21/20xx

ABC Solutions

# Project Scope and Definition

The project will deliver a compact and simple program that will allow a user to formulate test procedures to evaluate sample data. Procedures will be stored in a local database that may be accessed from the client. Queries will be made through SQL and returned to the user. The database will store all versions of existing procedures for later use.

Milestones for the deliverables include a basic user interface with minimal database integration (Sprint 1), a user interface and fully functional database

(Sprint 2), database searching capabilities and project folders (Sprint 3), dashboard that visualizes procedure progress (Sprint 4).

Some foreseeable constraints may include but are not limited to learning new languages, getting user accounts integrated within the web application, and using Docker to deploy the web application to production.

# Checklist, Increments, and Testing

* **Epics**

➢ Projects, Procedures & Steps

■ Creation of projects

* + - * + Fillable fields to differentiate projects

■ Creation of procedures within projects

* + - * + Fillable fields to differentiate procedures, and mark their completion

■ Creation of steps within procedures

* + - Version Creation

■ Creation of new procedure versions

■ Keep track of different versions in the list

■ Easily switch between procedure versions

* + - Ease of Use

■ Navigation bar to access all of the different functionalities of the application

■ Search bar to search through current procedures

■ Folder Hierarchy to display all projects

■ Dashboard for visualizing previous procedure completions

* **Sprints Increments**
  + Sprint 1

■ Sample user interface with basic functionality

■ First database iteration completed and integrated with current functionality

* + Sprint 2

■ User interface with core functionality completed

* + - * Creation of projects
      * Creation of procedures
      * Creation of steps within procedures
      * Fillable fields for both projects and procedures

■ Full database completed and integrated with current functionality

* + Sprint 3

■ Searching and sorting capabilities

■ Project folder creation

* + Sprint 4

■ Dashboard page

■ Data visualizations of current procedure progress

* **Testing**
  + The code for each increment will be tested by using a built-in python debugger in Visual Studio Code prior to deploying the increment.

■ During testing of an increment, if errors arise they will be assessed by the development team and fixed

■ The developer team will meet with each other either in person or through virtual screen sharing to perform peer code reviews

■ A common documentation style will be agreed upon amongst the development team

■ Functionality testing will be implemented by running the program and attempting to click all of the available buttons, seeing if they perform as expected

■ Unit testing will be conducted incrementally throughout development for each individual acceptance criteria

■ Performance testing will be conducted visually throughout development looking for long loading time and crashes.

**Epics, User Stories, Acceptance Criteria, and Tasks**

❖ **Acceptance Criteria**

* Epic

■ Several user stories, or a complicated user story which covers multiple functionalities

* User Story

■ An informal, natural language description of one or more features of a software system

* Acceptance Criteria

■ A set of pre-established requirements or standards that a project or product must meet. It comprises of sentences structured to encourage a definite accepted or rejected response which establish both practical and non-practical requirements.

* Tasks

■ An individual, measurable part of a user story that can be implemented

# Product Environment

❖ **Deployment**

* The shippable product will be shipped within a docker container which can then be deployed as a live environment on a chosen system.
* A test environment will not be used. The development team will be manually testing the local website.

# User Documentation

❖ **User Manual**

➢ The user documentation will outline the basic functionality of the application.

■ How to create a user account (when implemented) ■ How to create and modify test procedures.

■ How to import/export test databases.