Software requirements specification

PA Historical Finder

Harrisburg University of Science and Technology

CISC 397, Spring 2018

By Shannon Williams, Daniel Malinsky, Raekwon Harley, Edward Sampson, Sujan Tanniru

Table of Contents

[1. Introduction 2](#_Toc509476567)

[1.1. Purpose of this Specification Document 2](#_Toc509476568)

[1.2. Scope of the Product 2](#_Toc509476569)

[1.3. References 2](#_Toc509476570)

[1.4. Overview of the Remainder of the Document 2](#_Toc509476571)

[2. General Description 2](#_Toc509476572)

[2.1. Product Perspective 2](#_Toc509476573)

[2.2. Product Functions 3](#_Toc509476574)

[2.3. Overall Software Architecture 3](#_Toc509476575)

[2.4. User Characteristics 4](#_Toc509476576)

[2.5. General Constraints/Other Requirements 4](#_Toc509476577)

[2.5.1. Assumptions and Dependencies 4](#_Toc509476578)

[3. Risks Analysis 4](#_Toc509476579)

# Introduction

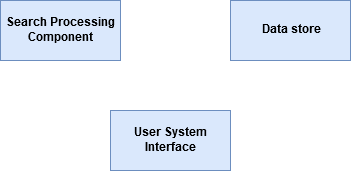
## Purpose of this Specification Document

This document specifies the requirements for the software, being developed. The system, referred to as PA Historical Finder, is one that enables users to explore significantly historical information within Pennsylvania.

## Scope of the Product

The purpose of the software is to allow users to search for historical information and to view search results in an interactive interface.

Figure 1.0 shows a visual diagram representing the components that will be developed and or used within the software system being delivered.



**Figure 1.0**

**Data Store:**

* Responsible for storing, managing, and retrieving requested data.

**Search Processing Component:**

**NEED TO DO OVER**

## References

This document references the User Software Specification for PA Historical Finder. References are in the format Use Case (UC) followed by its numerical label. For example, US 1 refers to Use Case 1.

## Overview of the Remainder of the Document

The latter part describes the system’s functional and non-functional requirements.

# General Description

# Product Perspective

The product will provide the capabilities to explore various landmarks within PA.

Development is done via Agile Development methodologies. Project management will utilize industry standard source control system(s) and open source tools and libraries.

# Product Functions

The software will provide the following functions:

1. User authentication and authorization
2. Search and view historical landmarks
3. Create tag lists of historical landmarks

## Overall Software Architecture

The software architecture is based on the well known model-view-controller (MVC) architecture.

**

**Figure 2.0**

**Controller:**

* Handles all types (GET, POST, etc.) requests forwarded by the server process.
* Returns output from processing requests to user.

**Model:**

* Comprises of view models and domain models. View models are sent back to the user with visible information. Domain models are hidden and used for data querying purposes.

**View:**

* Is the engine that manages the views users will see upon requests.

**Repository**:

* A manager that will be used to retrieve data from the underlying data source(s).

# User Characteristics

General users of this software are expected to be any individual with average electronic consumer savvy skills and an interest in Pennsylvania’s history.

# General Constraints/Other Requirements

# Assumptions and Dependencies

*Intentionally left blank*

# Risks Analysis

Please view the attached “PA Historical Finder Risks Analysis.xlsx” file for the full list of risks identified during the analysis stages of preliminary, life-cycle (development), and operations.