

# Software Requirement Specification

Senior Project CIS4891

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## Purpose and Scope

This document identifies the user requirements, product requirements, and derivative specifications for the Park Finder application. The scope is limited to the Park Finder project features developed for software version 1.0.

## Definitions, Acronyms, and Abbreviations

Term, Acronym, or Abbreviation	Definition
DS	Derivative Specification Identifier
PR	Product Requirement Identifier
TBD	To Be Determined
UID	Unique Identifier
UR	User Requirement Identifier

## Intended Use Statement

The Park Finder application is intended to provide a list of parks to a user. The user may find parks using a search function. The user may add or delete parks, and the user may modify existing parks in the application. The user may create a list of parks which they wish to visit. And, the user may create a list of parks which they have visited.

The Park Finder application is intended to be used on a single computer without the need for internet or network connection, and without the need for a unique login. The Park Finder application is intended to be pre-populated with a list of parks.

## User Requirements

### UR1. Find a park

*Traceability:*

*Implemented by product requirement PR1, PR2, PR3, PR4, and PR5.*

As a user, I want to find a park.

### UR2. Plan a visit

*Traceability:*

*Implemented by product requirement PR1, and PR3.*

As a user, I want to plan a park visit.

### UR3. Record a visit

*Traceability:*

*Implemented by product requirement PR1, and PR3.*

As a user, I want to record a park visit.

## Product Requirements

### PR1. Review parks

*Traceability:*

*Implements user requirement UR1.*

*Specified by derivative specifications DS1, DS2, DS3, DS4, and DS14.*

The system shall enable a user to review a list of parks.

### PR2. Create parks

*Traceability:*

*Implements user requirement UR1.*

*Specified by derivative specifications DS4, DS5, DS6, DS12, and DS13.*

The system shall enable a user to create a park including each park field.

### PR3. Update parks

*Traceability:*

*Implements user requirement UR1, UR2, and UR3.*

*Specified by derivative specifications DS4, DS7, DS12, DS15, and DS16.*

The system shall enable a user to update a park including each park field.

### PR4. Delete parks

*Traceability:*

*Implements user requirement UR1.*

*Specified by derivative specifications DS4, DS8, DS9, and DS12.*

The system shall enable a user to delete a park.

#### PR5. Filter park list

*Traceability:*

*Implements user requirement UR1.*

*Specified by derivative specification DS4, DS10, and DS11.*

The system shall enable a user to filter the list of parks by each park field.

## Derivative Specifications

#### DS1. Information displayed in park list

*Traceability:*

*Specifies product requirement PR1.*

The system shall display the following fields when reviewing the park list:

- Name
- Address
- Description
- Image

#### DS2. Park data

*Traceability:*

*Specifies product requirement PR1.*

The system shall include a set of parks (source TBD) by default to be displayed in the park list.

#### DS3. Park list displayed on launch

*Traceability:*

*Specifies product requirement PR1.*

The system shall display the park list upon launching the application.

#### DS4. Park fields

*Traceability:*

*Specifies product requirement PR1, PR2, PR3, PR4, and PR5.*

Each park entry shall include the following park fields:

- Name
- Address
- Description
- Image
- To-do
- Visited

- UID (hidden)

DS5. Create park with required fields

*Traceability:*

*Specifies product requirement PR1.*

The system shall enable a user to create a new park entry with the following fields:

- Name (required)
- Address (optional)
- Description (required)
- Image (optional)

DS6. Refresh park list following new park creation

*Traceability:*

*Specifies product requirement PR2.*

The system shall refresh the park list following the creation of a new park entry.

DS7. Refresh park list following each park update

*Traceability:*

*Specifies product requirement PR3.*

The system shall refresh the park list following each update to any park fields.

DS8. Delete all park fields

*Traceability:*

*Specifies product requirement PR4.*

The system shall delete all data associated with that single park entry when deleted.

DS9. Refresh park list following park deletion

*Traceability:*

*Specifies product requirement PR4.*

The system shall refresh the park list following the deletion of any park entry.

DS10. Park list filter match

*Traceability:*

*Specifies product requirement PR5.*

The system shall display any park which includes the entire search criteria in the selected park field.

DS11. No filter on launch

*Traceability:*

*Specifies product requirement PR5.*

The system shall display all park entries when launched; no filter shall be applied.

DS12. Save on exit

*Traceability:*

*Specifies product requirement PR2, PR3, and PR4.*

The system shall save all CRUD (create, review, update, delete) operations to all park fields on exit.

DS13. Input field validation

*Traceability:*

*Specifies product requirement PR2.*

The system shall validate each park field when creating a park.

DS14. Fit to window

*Traceability:*

*Specifies product requirement PR1.*

The system shall fit the park list to the window (either through pagination or scroll bars; TBD).

DS15. To-do status availability

*Traceability:*

*Specifies product requirement PR3.*

The system shall enable a user to update the “To-do” status directly in the park list and in the park details.

DS16. Done status availability

*Traceability:*

*Specifies product requirement PR3.*

The system shall enable a user to update the “Done” status directly in the park list and in the park details.