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| Map  Description automatically generated  Final Report for Application Development 2 Mobile DEvelopment  Winter 2022 | Discover APP Project  Application Final Report  Rolando Banasco Cuellar, Danich Hang, George Maged Samir Aziz  Discover: Travel App with To-do list |

Table of Contents

[Project Aim and Description 2](#_Toc102644916)

[Project Aim 2](#_Toc102644917)

[Description 2](#_Toc102644918)

[Functional 2](#_Toc102644919)

[Non-Functional Requirements 2](#_Toc102644920)

[API Calls 3](#_Toc102644921)

[User Stories 3](#_Toc102644922)

[Test Cases 4](#_Toc102644923)

[Individual’s roles and responsibilities 4](#_Toc102644924)

# Project Aim and Description

### Project Aim

This project aims make an application that will allow user to have the ability choose what national parks they which to visit. It allows users to have an easy-going experience when it comes to choosing a place to travel.

### Description

This application allows user to create an account that allows then to enter the travel application. With credentials the users will be allowed to search the entirety of the map and look for national parks they which to see their activates and description by clicking on them.

### Functional

Application:

* Login and Register
  + Credential to keep save user data information
* Google Maps with Parks API
  + API to fetch information about parks and display them of both the map and the list of parks.
* User Profile
  + Allows the user to change their information to keep the app up to date.
* Favorites Page for parks wanted to be visit
  + Allows user to remember their favorites place

### Non-Functional Requirements

Application:

* Splash Screen (loading)
  + Better user experience for wait while app loads
* Clickable location on maps
  + Shortcut to see the description of the park
* Favorites a park that the user wishes to visit
  + Favorite list associated with user’s account
  + Provide a comment of that park

#### Database Connectivity

### API Calls

During our application we used National Parks API with google cloud platform to register the IDE so that the maps activity is displayed on the screen of the device. Furthermore, google sign in would count as another API implemented in our project.

### User Stories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | As a <type of user> | I want/need to<perform task> | So that I can <achieve a goal > | Acceptance Criteria |
| 1 | A new user | I need to create an account by providing all the necessary information (on the screen) | So that I can use the features on the app | Ensure that the user is able to: Enter their details on the registration form and click register |
| 2 | Returning user | I want to enter the application by login-in with credentials previously inputted on the registration page | So that I can use the features on the app | Ensure that the returning user can login after entering the proper credentials |
| 3 | Regular user | I want to search a park by state code | So that I can see parks in states I want to go too | Ensure that the user can search by state code in the search bar |
| 4 | Regular user | I want to see a detailed version of the park I search for | So that I can see the description, activities and open hours including fees for visit | Ensure that the user is able to see the description of the park selected after clicking on the header of the map |
| 5 | Regular user | I want to browser through the tab-bar | So that I can traverse the app and use the features | Ensure that the user can click elements in the tab-bar by clicking and entering all elements |
| 6 | Regular user | I want to change my user credentials | So that I can keep my account on the app up to date | Ensure that the user is able to change their credentials in the user profile page |
| 7 | Regular user | I want to add a park I find interesting in my favorites page | So that I can have a quicker way to access the places I like | Ensure that the user is able to favorite a park they like by clicking the heart button on the screen |
| 8 | Regular user | I want to add a park to my favorites list without having to exit the page itself | So that I can remove that same park if I end up disliking it | Ensure that the user is able to favorite a park while reading the description |

### Test Cases

#### For Password

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case Type | Description | Test Step | Expected Result | Status |
| Security | Verify password rules are working | Create a password when user registers in accordance with the firebase rules 8-character length | The password will be accepted if it follows the rules | Pass if successful  Fail if it doesn’t meet requirements |

#### API

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case Type | Description | Test Step | Expected Result | Status |
| API usability | All API links are working properly when user open application | Map populated with red icon that show all the national parks using google maps | By clicking on the map header, the user will be taken another page which holds more information about the park | Pass maps are populated  Fail if nothing shows up |

#### Functionality

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case Type | Description | Test Step | Expected Result | Status |
| Functionality | User should be able to | User should be able to go on every section of the tab-bar without any issues | Clicking on the map, favorites list and settings without app crashing or data not showing up | Pass: if all elements in the tab-bar works  Fail: if app crashes |

### Individual’s roles and responsibilities

##### Team Members: Responsibilities

During the prototype face of the project, Danich was the main developer of the backend part of the application. She is the one that was responsible for fetching the API and implementing the CRUD operations. George was responsible to display the data of the API on the screen and make sure that the detail page of the application was reading the json file properly with data entries being displayed in the right order. Rolando was responsible for the UI and overall look of the app along with how the app would launch the login and register screens.

##### Team Members: Roles

* Danich
  + API and CRUD with implementation of favorites place added to the list.
  + Application flow and error fixes
  + Recycler view and structuring data
  + Application Structure
  + Fix Favorite List not displaying
  + Bug fix for review and. Firebase connection
  + Implementation of Review
  + Implementation of Schedule
  + Smooth scrolling of the list page
  + UI fix for phone screens
* George
  + Displaying json data on screen
  + Login and register bug and error fixes
  + Parks app detail activity with description of places
  + Fix the Sign in with google and GitHub
  + Bug fix for favorites button and design
  + Bug fix for API
  + Code clean up
  + Image View structure
* Rolando
  + UI implementation: Login and register
  + Splash Screen
  + UI elements and images
  + Profile page UI
  + App color
  + Schedule and Review UI
  + Code correction and clean up
  + UI fixes to profile page