

# **Coding Project Final Report**

**In this aspect of the summary, we discuss the coding project deliverables and testing/inspection part of the coding project. Here we discuss project overview, project domain, relationship to other documents, naming conventions and definitions, items to be tested, test specifications, test results, regression testing, items to be selected, inspection procedures, inspection results, recommendations and conclusions, project issues, open issues, waiting issues, ideas for solutions, project prospective, glossary and reference/bibliography.**

## **Project Overview:**

- Get Outside is a web application that allows you to explore, plan National Parks and be able to book Hotels and restaurants near the National Parks. It also allows users to explore activities around the National Park, weather, and in depth description of the National Park. Users can access all this information through the single platform "Get Outside".
- One of the catchy features of the app allows users to mark the visited parks to be able to differentiate from the visited and parks to be visited. We have also added the feature that allows users to add National Parks to the bucket list to be visited in future.

## **Project Domain:**

- The application could be used on any web browser. Users would also be able to create an account for privacy reasons and be able to access the application by their own personalized credentials.

## **Relationship to Other Documents:**

- This document would serve as an overview of the product and its complete working along with the domain so that the materials are being tested and inspected effectively. Surely the entire application and User Interface is user friendly, but some background information would be helpful for the user to get the best out of the product.

## **Items to be Tested:**

- If you are building an application or a product it is vital to lay down a testing plan before the application is deployed. Here we have tested different functionalities of the application ranging from backend, data storage, frontend, data displaying, map markers, parks visited, hotel bookings, FAQ's and feedback forms.

**Test Specifications:**

- In test specifications we explained different tests we did along with what items were covered in the particular tests. Environmental needs and test procedures were followed comprehensively in order to test the application. We utilized specific input specifications to get the desired output if a real user uses our application and how the application should be presented to them. We reviewed the effectiveness of the test by having a pass/fail criteria.

**Items to be inspected:**

- While building a product, it is necessary to check the build quality of the product while it is in the development phase. In this section, we discuss the code that needs to be inspected before proceeding with the web-app.

**Inspection Results:**

- The most critical part of a code is to make sure it is the most efficient implementation possible. We followed the procedure of code review. For instance Sanket worked on button.js and home.js and other three members reviewed the code. This practice allowed us to improve on any errors or bugs which we had in the code and we were able to implement the code in a more efficient manner.

**Project perspectives and concerns :**

The issue that is yet to be tackled is the performance of the application. The system needs to minimize the API calls by multi-threading. Over the course of the project, many organizations were needed to meet the objectives for the final product which includes the external resource. If we could integrate those to our application the product would be more competitive and secured. The other feature that could be included in the product includes the communication system.

Over the time, we worked on the project using the pair programming technique and distributing the tasks among the groups, which made the process more efficient and convenient. Also, it helped in limiting errors since this approach allows to review the code at the same time while coding and also the work in general tends to be done faster. We chose the product based on the fact that it was interesting. In the case that we devoted a bit more time to research before starting on implementation, perhaps we could have come up with even more unique ideas.

