CHAPTER 8

TESTING

8.1 Introduction

In order for the web application to run seamlessly, certain test cases must be developed. These test cases will ensure that all the required conditions are met and prevents the application from throwing any errors or running infinite loops which would waste the user’s time and resources.

8.2 Testing Tools and Environment

The test cases were written in Python 3.4 similar to the entire application.The test cases can be run on any environment compatible with Python and which also has Flask, nltk and all the other mentioned libraries installed and configured.

8.3 Test cases

| Check Conditions | Action to be Performed |
| --- | --- |
| Check if OS Parameters are obtained before prediction | It should throw appropriate error message showing that parameters have not been obtained successfully. |
| Check if one particular mandatory parameter is missing | Display message stating which parameter is missing. |
| Check for invalid parameters being sent | Display appropriate error message stating which parameter and the valid range of values. |
| Low internet connectivity | Displaying a message to inform the user of low internet connectivity |
| Check if accuracy values are correctly displayed | Verify the accuracy with the model used |
| Check that the values are randomised and taken every time | Verify by running the reading of values multiple times |

Table 8.1: Unit test cases