**4. TEST PLAN**

5.1 Unit Test Plan

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| --- | --- | --- | --- | --- |
| **Test ID** | **Description** | **Expected input** | **Expected output** | **Actual output** |
| UT-1 | Add item to list | Give the data in key, pair | Item added to the list | Item added to list |
| UT-2 | Find an item in the list | Correct Key value | Give the pair value for the given key | Give all details based on key value |
| UT-3 | Find an item in the list | Wrong Key value | Give NULL output | Give NULL output |
| UT-4 | Make changes to an item in the data | Alter the pair data value | Change in the list | Change in the list |
| UT-5 | Delete an item from the data set | Select the data to be deleted | Change in the list | Change in the list |

## 5.2 Integration Test Plan

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| --- | --- | --- | --- | --- |
| **Test ID** | **Description** | **Expected input** | **Expected output** | **Actual output** |
| IT-1 | Arranging item in an order | List of data | Ordered list | Ordered list |
| IT-2 | Search for item by ID number in the localhost URL | Give the correct ID number | Details of data with that ID number | Details of data with that ID number |
| IT-3 | Search for item by ID number in the localhost URL | Give the wrong ID number | Null details as wrong ID | Null details |
| IT-4 | Identify by item ID & change data | ID number & changes in the data | Changed data with a ID number | Changed data with a ID number |
| IT-5 | Identify item to be deleted by ID number | ID number & choose delete | Change in the list | Change in the list |