# TESTING REPORT

# Grabit

# Overview

Our web app is an online marketplace where IIITG members can post ads to buy and sell pre-owned goods like medicines, stationery, cycles etc. within the campus.

# Testing(with Selenium)

## Unit Testing:

**MODELS**

In django models should test the labels for all the ﬁelds, because even though haven't explicitly speciﬁed most of them, have a design that says what these values should be. If do not test the values, then don't know that the ﬁeld labels have their intended values.

Text

Description automatically generated

The above unit test case snippet is for search form . We ensure that the user entered all the required ﬁelds. Then a check is performed whether the entered data is valid or not, if it’s invalid appropriate errors are thrown, else the search will be performed.

**URLS**

Text

Description automatically generated **VIEWS**

View unit testing allows us to conﬁrm that our template is getting all the data it needs. In other words, can check that we are using the intended template and what data the template is getting, which goes a long way to verifying that any rendering issues are solely due to the template.

Below is the snippet attached for Add Items and Edit item details.

Text

Description automatically generated

Text

Description automatically generated

## Manual Testing:

Manual Testing was performed in order to find and fix the bugs in development process.

Two test accounts were created to test the ﬂow of entire web application

**Personal User account**

● Three dummy test Advt. posts were created for all the categories

● Reacted on other posts

● Interacted with seller via inbuilt direct messaging service on website

● Searched for products

**Admin Account**

● Veriﬁed the registration details of all the users.

● Account veriﬁcation by admin.

● Checked chat logs in case user needs any help/service regarding the product.

● Verify the products of seller.

● Tracked any suspicious product

Taking the account through the complete process from signing up to testing every feature ensured that none of the features were breaking in production and that they were all working properly.

also ran the tests in various devices and resolutions to make sure the UI did not vary incorrectly. This process was repeated with varying the inputs and corner case inputs to check for integrity of the application. employed various techniques to test input validation, including bug checks.

**Integration Testing**

ran all unit test modules. found that all the modules are loosely coupled and do not require separate integration testing.

To perform manual integration testing, have individually tested all the modules and made sure that they are working properly in combination with each other.

prepared a top-down ﬂowchart of all the modules to check the ﬂow of our web application.

**System Testing**

performed manual System testing on a complete integrated system to evaluate the compliance of the system with all the requirements.

assessed the design and behavior of the system.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr No.** | **Test Scenario** | **Expected Result** | **Actual Result** | **Status** |
| 1 | Login with Correct Credentials | User should be able to Log in. | Success message:  “Successfully Logged in” | pass |
| 2 | Login with incorrect Credentials | User should not be able to Log in | Error message: “Invalid  credentials! Please try again!” | pass |
| 3 | Search Item with matching name | Shows Available Items | Shows Available possible Items related to query | pass |
| 4 | Search Item with different not matching name | No search result found | Redirect to Error page with message “No Search result found. Please refine your query” | pass |
| 5 | Profile modification with change credentials | All recent changes are covered | Success message: “Profile Modification Done” | pass |
| 6 | Add item with its details | Item should be added to database | Item added Successfully and shows added item and its details | pass |
| 7 | Edit item details | Item details should be updated | Success message: “Item details updated successfully” and shows item with updated details | pass |
| 8 | Delete item | Item should be deleted from database | Success message: “Item deleted successfully” and  deleted item is not shown in my item list | pass |
| 9 | Direct access from changing the URL | Error-404 Page | Redirect 404-Not Found Page | Pass |
| 10 | Logout | User should be logged out and restricted from the system until next login. | User is successfully logged out and not able to access the system without signing again. | pass |

After running the above test cases we ﬁxed all detected irregularities between the unit tests that are integrated together. We made sure that none of the features are breaking and the system as a whole is working smoothly in all circumstances .