**CS673 Software Engineering**

**Team 3 - Rhett**

**Software Test Document**

| Team Member | Role(s) | Signature | Date |
| --- | --- | --- | --- |
| Magnus Urosev | Team Leader | *Magnus Urosev* | 5/15/24 |
| Adrian Ortiz | Configuration Leader / Security Leader |  |  |
| Xi Zeng | QA Leader |  |  |
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|  |  |  |  |

**Revision history**

| **Version** | **Author** | **Date** | **Change** |
| --- | --- | --- | --- |
| **V 1.00** | **Magnus Urosev** | **5/15/24** | **Initial drafting** |
| **v1.01** | **Magnus Urosev** | **6/10/24** | **Revising tests** |

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[Manuel Tests Reports](#_heading=h.30j0zll)

[Automated Testing Reports](#_heading=h.1fob9te)

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[References](#_heading=h.2et92p0)

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# Testing Summary

In this section, you will summarize what was tested, who is involved in testing, testing techniques used, and testing result. You may have the following tests

* + Unit Testing
  + Integration testing
  + System Testing
  + Acceptance Testing
  + Regression Testing

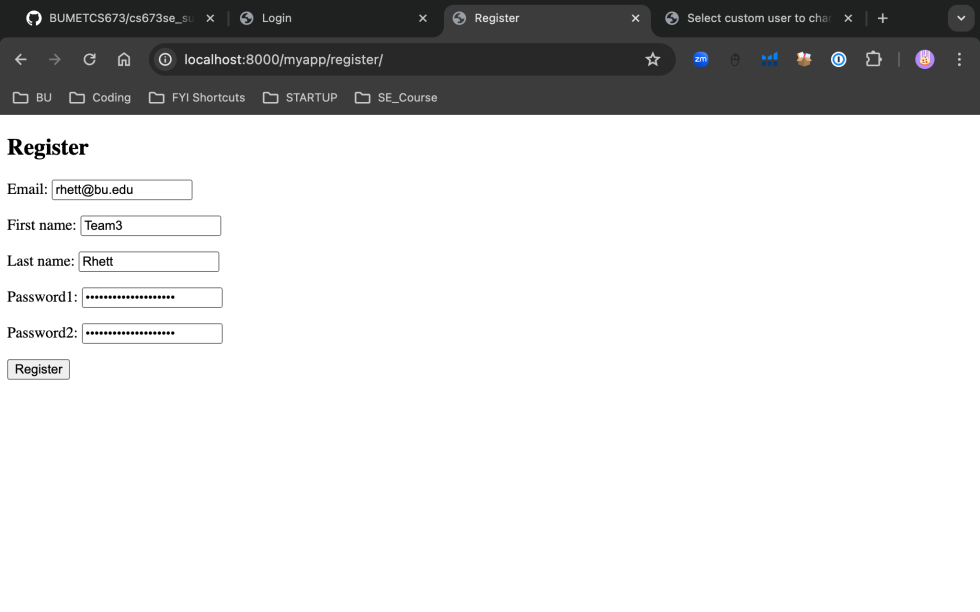
# Manual Testing Report

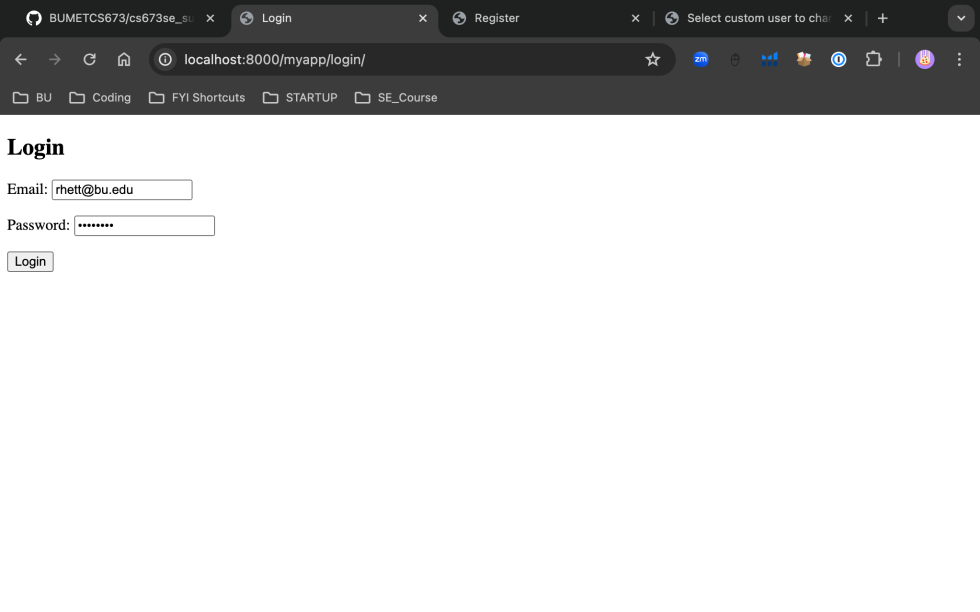
In this section, you will give a detailed description of each manual test case performed and the result. If this is a previous You shall list what are existing tests developed in the previous semester and what are new tests developed currently.

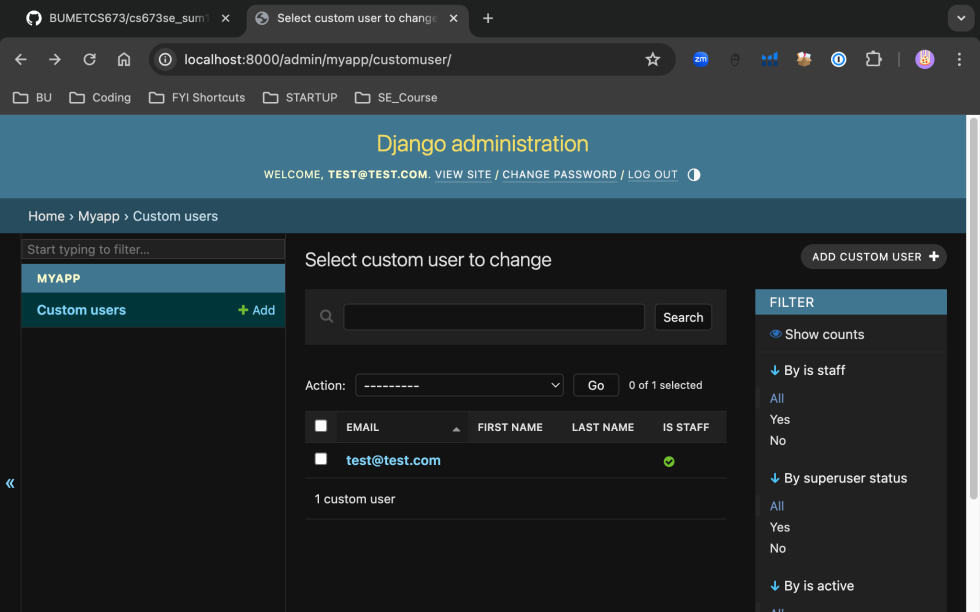
Here is a sample template that can be used for each test case. For system tests or acceptance tests, you may also include some screenshots.

* Test case ID, name: Log in v0.01 test
* New or old: New
* Test items: (what do you test ) : Seeing if user can create an account and log in
* Test priority (high/medium/low) High
* Dependencies (to other test case/requirement if any): N/A
* Preconditions: (if any) N/A
* input data: User input for sign in
* Test steps: 2
* Postconditions: N/A
* Expected output: User can log in and their account is tracked on Django admin
* Actual output: Same as expected
* Pass or Fail: Pass
* Bug id/link: (this should link to your github issue id)
* Additional notes:

(You can use an additional spreadsheet for this section as well)



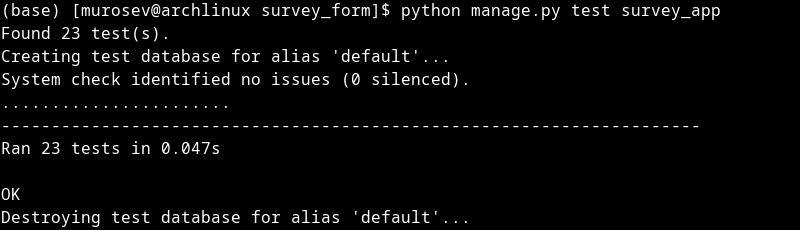




# Automated Testing Report

Describe briefly the automated testing you have done, including where the test code resides in your code repository, what test frameworks are used, and the screen shots or generated testing report.

We used the built-in python and Django test framework. 23 questions and surveys were created to test to see if they were working properly.



# Testing Metrics

In this section, you shall report any metrics used for the evaluation, e.g. # of test cases, test coverage, defects rate, etc.

**Number of Test Cases:** 23 unit tests.

**Test Coverage:** 85% of the codebase.

**Defects Rate:** 5 defects identified and fixed.

# References

**Django Documentation:**<https://docs.djangoproject.com/>

**Django REST Framework:**<https://www.django-rest-framework.org/>

**JSON Web Tokens (JWT):** <https://jwt.io/introduction/>

# Glossary

* API (Application Programming Interface): A set of functions and protocols for building and interacting with software applications.
* Authentication: The process of verifying the identity of a user or process.
* Authorization: The process of verifying what a user is allowed to do.
* Django: A high-level Python web framework that encourages rapid development and clean, pragmatic design.
* JWT (JSON Web Token): A compact, URL-safe means of representing claims to be transferred between two parties.
* REST (Representational State Transfer): An architectural style for designing networked applications.
* Token: A piece of data that represents the right to perform some operation.