

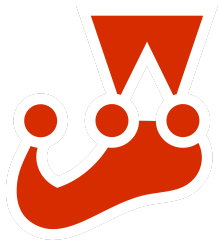
ThriveToday Testing Plan

Overview/Tools Being Used



- **End-to-end Testing**

- Using Selenium IDE, we will test the entire user experience. This includes:
 - Being able to sign up
 - Being able to log in
 - Being able to create a new plan
 - Being able to interact with a plan
 - Test permissions for users.



- **Unit Testing**

- Using Jest, a unit testing framework for NodeJS, we will be able to test individual units of our code.
- To accomplish this, and since most of our functions make database queries, we will have to set up a dummy database and test the functions on that.
- This will allow us to test each bit of code to make sure everything is functioning properly.

Instructions for Expert Users:

End to end testing using Selenium IDE:

1. Download and install Selenium IDE from the official website.
2. Open Selenium IDE and create a new test case.
3. Copy and paste the test script provided into the test case editor.
4. Run the test case and review the results for errors or unexpected behavior.
5. Report any issues to the developer along with relevant information.

Unit Testing using Jest:

1. Make sure you have Jest installed in your project. You can install it using NPM or Yarn. Run “npm install jest”.
2. Navigate to the root directory of the project in the terminal.
3. Run the command npm test or yarn test. This will run all the unit tests for the project.
4. Review the test results for any failures or errors.
5. If any test cases fail, review the error messages and make any necessary changes to your code.
6. All test cases passed verifies the backend is working correctly.

Coverage of tests:

End to end testing using Selenium IDE will contain test scripts for:

- Logging in / Logging out
- Creating a new plan and adding content
- Like another user’s plan page
- Look up most popular plans and view one of them

Using Selenium IDE and scripts provided will allow testers to view any issues with the web page and/or experience, including render bugs, backend server connectivity issues, and unexpected response time.

Unit testing using Jest will be pre-written unit test code provided by team ThriveToday.

These unit tests will cover:

- Adding new user to database
- Remove user from database
- Attempt to add new user given bad data (expecting error)
 - Bad data = already existing email/username, invalid password, empty parameters, etc.
- Create a new plan with content
- Edit an existing plan
- Like/unlike a post

The Jest unit tests will be prewritten, and testers will be able to run these tests using a script start command through terminal. Most likely this command will be “npm run tests”.