

NewsApp

Automation Test

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1. ACKNOWLEDGEMENT

We are extremely glad to present our project as a part of our training. We take this opportunity to express our sincere thanks to those who helped us in bringing out the report of my project.

I am deeply grateful to Stack Route , for their help and suggestions throughout the project.

Express heartiest thanks to **Mrs. Koel Chowdhury**, Project Scrum Master for her encouragement and valuable suggestion. Finally, we express our thanks to all of our friends who gave us their valuable suggestion for successful completion of this project.

Aiswarya K V
Anjali Usha
Jincy Job

2. SYSTEM SPECIFICATIONS

1.1.HARDWARE REQUIREMENTS:

Processor : Intel i3 or above

RAM : 2GB or Above

Hard Disk: PC with 20 GB

1.2.SOFTWARE REQUIREMENTS :-

Operating System Server:_Linux.

DataBase Server: Oracle MySQL.

Client: Google Chrome, Version-88.

Tools: Spring Tool Suite-4, Visual Studio Code, PostMan, MySql WorkBench

3. INTRODUCTION

The purpose of the project is to test a web application which will display news articles. A user can register and login to the web application. Authorized users can browse news articles through the web application. Application will enable users to view news details, add news to their favourite list as well as delete the news articles. Here, we are trying to figure out the accuracy and defects of the web application.

3.1 Project Aims and Objectives

The aims and objectives of this project is described below:

- Search for a news article
- View or open an article
- Add an article to favourite list
- Users should be able to update their profile data and should be able to view updated data in POSTMAN.
- Should be able to see favourite articles
- UI should be responsive which can run smoothly on various devices

3.2 Testing Aims and Objectives

- Unit Testing for UserService and FavoriteService
- Web application has to be tested using protractor-jasmine framework
- Angular front end has to be tested using Protractor
- UserService and FavoriteService should be tested using REST Assured and Mockito

3.3 Overall description of testing techniques.

Backend Testing frameworks:

Mockito+J-unit:

Mockito is an open source testing framework for java released under the MIT License. The framework allows the creation of test doubles objects (mock objects) in automated unit tests for the purpose of test-driven development (TDD) or

behavior-driven development (BDD). JUnit is a simple framework to write repeatable tests. It is an instance of the xUnit architecture for unit testing frameworks.

Rest-Assured+TestNg:

Rest Assured enables you to test REST APIs using java libraries and integrates well with Maven. It has very efficient matching techniques, so asserting your expected results is also pretty straight forward. Rest Assured has methods to fetch data from almost every part of the request and response no matter how complex the JSON structures are. TestNG is a testing framework inspired from JUnit and NUnit but introducing some new functionalities that make it more powerful and easier to use.

PostMan:

Postman is an interactive and automatic tool for verifying the APIs of your project. Postman is a Google Chrome app for interacting with HTTP APIs. It presents you with a friendly GUI for constructing requests and reading responses. It works on the backend, and makes sure that each API is working as intended.

In Postman, we create a request, and Postman looks at the response to make sure it has the element we want in it. As it is an automation tool, it drastically improves testing time and quality of the project. It helps in the early detection of bugs that might sprout at later stages and cause more damage to the system. Postman is the way to streamline the process of API testing. All APIs that we create and deploy first rigorously go through Postman so that any major or show stopper bugs are identified on time and fewer bugs leak through to later stages.

Frontend Testing frameworks:

- Protractor-Jasmine:

Jasmine is a Behavior Driven Development testing framework for JavaScript. ... js projects, or anywhere that JavaScript can run; **Protractor**: End-to-end test framework for Angular and AngularJS applications. **Protractor** is an end-to-end test framework for Angular and AngularJS applications.

3.4 IDEs used:

- Visual StudioCode
- Spring Tool Suite

3.5 Database Used:

- MySQL WorkBench

3.6 Web page details:

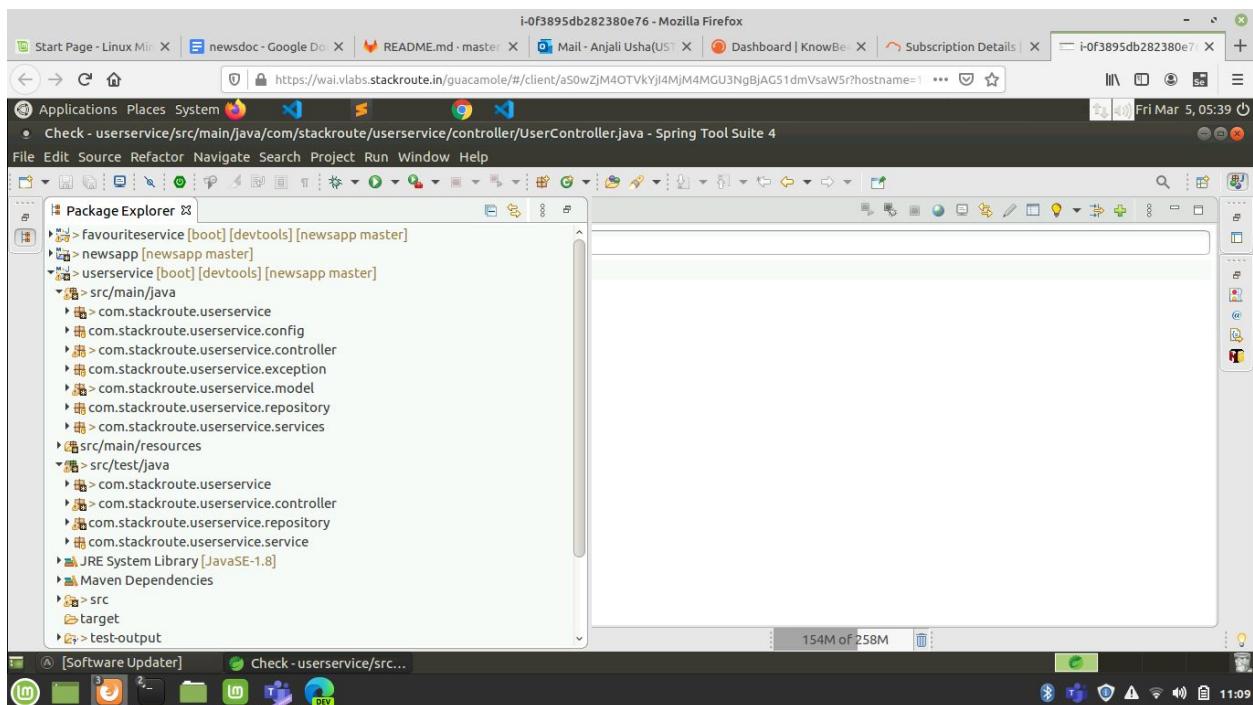
- Registration page
- Login page.
- Dashboard page
- Search Page
- Favourites page

4. PROJECT STRUCTURE

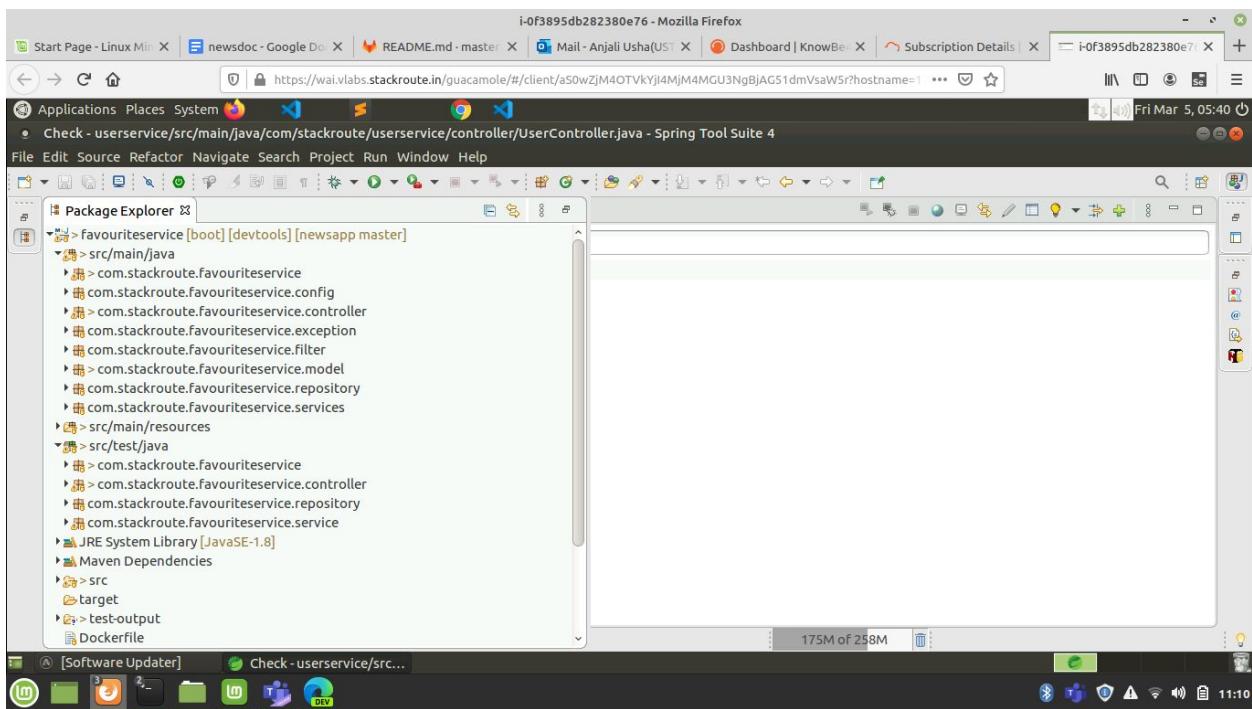
BACKEND STRUCTURE

4.1 Backend Modules:

USER SERVICE:



FAVOURITE SERVICE:



5. TESTING THE BACKEND

Here we test the different functionalities of the web application. This testing is done in order to make sure that all the given functionalities are behaving and responding as per the standards and the client requirements.

The testing technologies used are :

1) for Backend

- Mockito+J-Unit testing
- Rest-Assured+TestNg

5.1 UserService module:

The classes we are testing in UserService module are:

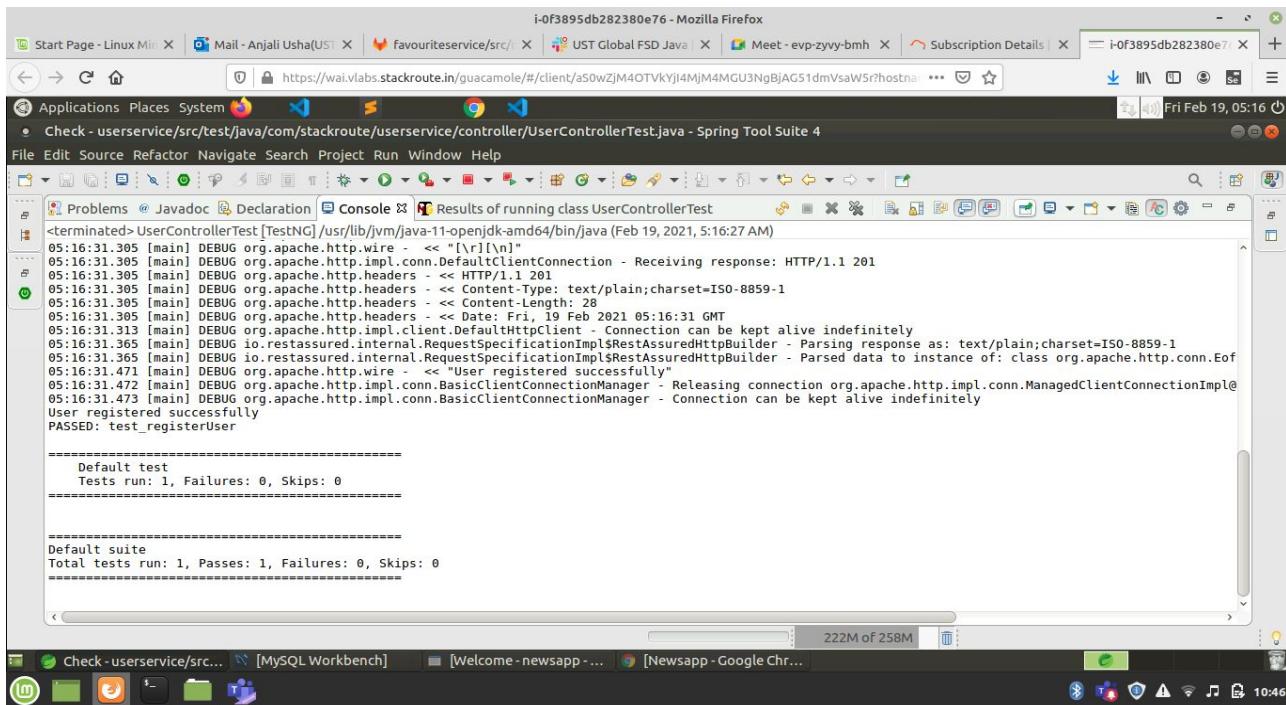
- _User Controller Test
- User Service Test

5.1.1 User Controller Testing:

The User Controller class is tested using the Rest-Assured+TestNg framework. The functionalities assigned in the controller part are:

NewsApp

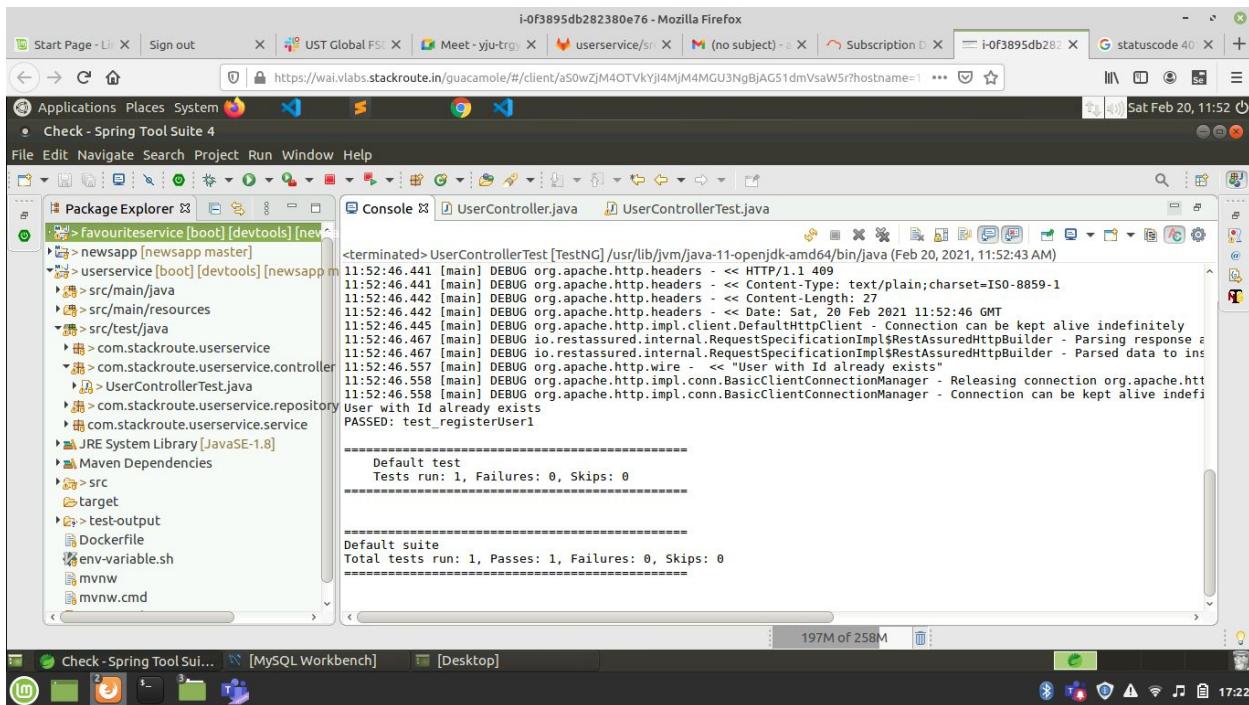
- User Registration with valid credentials



```
i-0f3895db282380e76 - Mozilla Firefox
Start Page - Linux Mint | Mail - Anjali Usha(UST) | favouriteservice/src/ | UST Global FSD Java | Meet - evp-zyyv-bmh | Subscription Details | i-0f3895db282380e76
https://wai.labs.stackroute.in/guacamole/#/client/a50wZjM4OTVkyJ4MjM4MGU3NgBjAG51dmVsaw5r?hostna ...
Applications Places System
Check - userservice/src/test/java/com/stackroute/userservice/controller/UserControllerTest.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Problems @ Javadoc Declaration Console Results of running class UserControllerTest
<terminated> UserControllerTest [TestNG] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (Feb 19, 2021, 5:16:27 AM)
05:16:31.305 [main] DEBUG org.apache.http.wire - << "[\r\n]"
05:16:31.305 [main] DEBUG org.apache.http.impl.conn.DefaultClientConnection - Receiving response: HTTP/1.1 201
05:16:31.305 [main] DEBUG org.apache.http.headers - << HTTP/1.1 201
05:16:31.305 [main] DEBUG org.apache.http.headers - << Content-Type: text/plain;charset=ISO-8859-1
05:16:31.305 [main] DEBUG org.apache.http.headers - << Content-Length: 28
05:16:31.305 [main] DEBUG org.apache.http.headers - << Date: Fri, 19 Feb 2021 05:16:31 GMT
05:16:31.313 [main] DEBUG org.apache.http.impl.client.DefaultHttpClient - Connection can be kept alive indefinitely
05:16:31.365 [main] DEBUG io.renrenstated.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsing response as: text/plain;charset=ISO-8859-1
05:16:31.365 [main] DEBUG io.renrenstated.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsed data to instance of: class org.apache.http.conn.Eof
05:16:31.471 [main] DEBUG org.apache.http.wire - << "User registered successfully"
05:16:31.472 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Releasing connection org.apache.http.impl.conn.ManagedClientConnectionImpl@...
05:16:31.473 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Connection can be kept alive indefinitely
User registered successfully
PASSED: test_registerUser
=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```

- User already exist



```
i-0f3895db282380e76 - Mozilla Firefox
Start Page - Li... | Sign out | UST Global FSD | Meet - yiu-trg | userservice/sr... | (no subject) | Subscription | i-0f3895db28... | statuscode 40... | + | https://wai.vlabs.stackroute.in/guacamole/#/client/a50wZjM4OTVkyJ4MjM4MGU3NgBjAG51dmVsaw5r?hostname=...
Applications Places System | Check - Spring Tool Suite 4 | File Edit Navigate Search Project Run Window Help | Package Explorer | Console | UserController.java | UserControllerTest.java | Sat Feb 20, 11:52 | 197M of 258M | 17:22

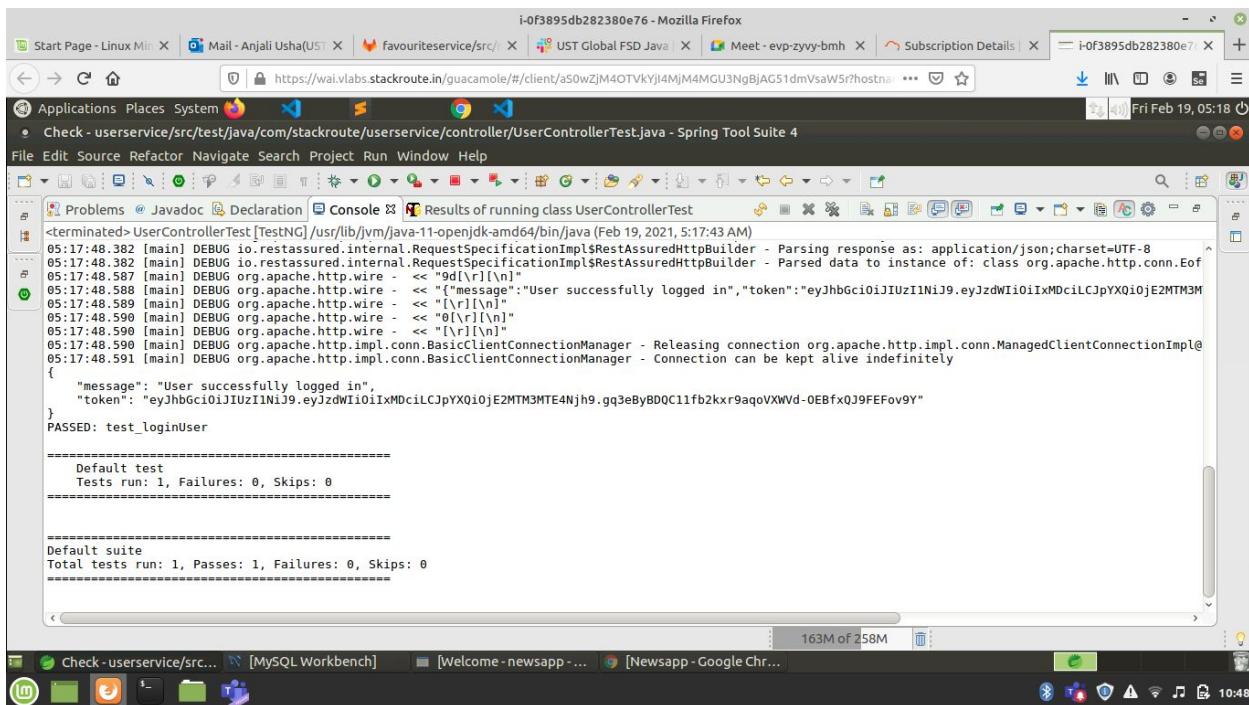
<terminated> UserControllerTest [TestNG] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (Feb 20, 2021, 11:52:43 AM)
11:52:46.441 [main] DEBUG org.apache.http.headers - <> HTTP/1.1 409
11:52:46.441 [main] DEBUG org.apache.http.headers - <> Content-type: text/plain;charset=ISO-8859-1
11:52:46.442 [main] DEBUG org.apache.http.headers - <> Content-length: 27
11:52:46.442 [main] DEBUG org.apache.http.headers - <> Date: Sat, 20 Feb 2021 11:52:46 GMT
11:52:46.445 [main] DEBUG org.apache.http.impl.client.DefaultHttpClient - Connection can be kept alive indefinitely
11:52:46.467 [main] DEBUG io.restarused.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsing response as: application/json; charset=UTF-8
11:52:46.467 [main] DEBUG io.restarused.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsed data to instance of: class org.apache.http.conn.Eof
11:52:46.557 [main] DEBUG org.apache.http.wire - <> "User with Id already exists"
11:52:46.558 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Releasing connection org.apache.http.impl.conn.BasicClientConnectionManager - Connection can be kept alive indefinitely
User with Id already exists
PASSED: test_registerUser

=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====

[Desktop] | MySQL Workbench | [MySQL Workbench] | [Check - Spring Tool Sui...]
```

- User login with valid credentials



```
i-0f3895db282380e76 - Mozilla Firefox
Start Page - Linux Min... | Mail - Anjali Usha(UST) | Favouriteservice/src/ | UST Global FSD Java | Meet - evp-zvyy-bmh | Subscription Details | i-0f3895db282380e7... | + | https://wai.vlabs.stackroute.in/guacamole/#/client/a50wZjM4OTVkyJ4MjM4MGU3NgBjAG51dmVsaw5r?hostname=...
Applications Places System | Check - userservice/src/test/java/com/stackroute/userservice/controller/UserControllerTest.java - Spring Tool Suite 4 | File Edit Source Refactor Navigate Search Project Run Window Help | Problems | Declaration | Console | Results of running class UserControllerTest | Fri Feb 19, 05:18 | 163M of 258M | 10:48

<terminated> UserControllerTest [TestNG] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (Feb 19, 2021, 5:17:43 AM)
05:17:48.382 [main] DEBUG io.restarused.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsing response as: application/json; charset=UTF-8
05:17:48.382 [main] DEBUG io.restarused.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsed data to instance of: class org.apache.http.conn.Eof
05:17:48.587 [main] DEBUG org.apache.http.wire - <> "9d[\r][\n]"
05:17:48.588 [main] DEBUG org.apache.http.wire - <> "[{"message":"User successfully logged in","token":"eyJhbGciOiJIUzI1NiJ9eyJzdWIiOiIxMDciLCJpYXQiOjE2MTM3M
05:17:48.589 [main] DEBUG org.apache.http.wire - <> "9d[\r][\n]"
05:17:48.590 [main] DEBUG org.apache.http.wire - <> "0[\r][\n]"
05:17:48.590 [main] DEBUG org.apache.http.wire - <> "[\r][\n]"
05:17:48.590 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Releasing connection org.apache.http.impl.ManagedClientConnectionImpl@
05:17:48.591 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Connection can be kept alive indefinitely
{
    "message": "User successfully logged in",
    "token": "eyJhbGciOiJIUzI1NiJ9eyJzdWIiOiIxMDciLCJpYXQiOjE2MTM3MTE4Njh9.gq3eByBDQC1fb2kxr9aqoVXWVd-0EBfxQ9FEFov9Y"
}
PASSED: test_loginUser

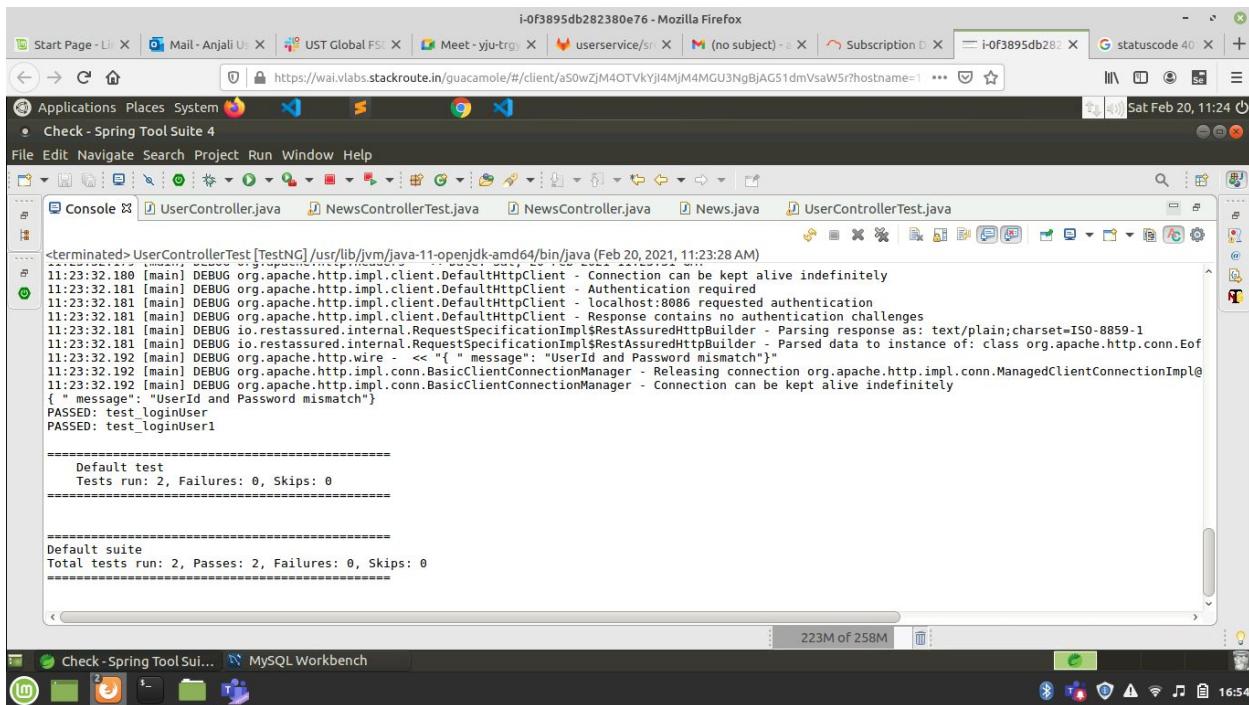
=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====

[Check - userservice/src... | MySQL Workbench | [Welcome - newsapp ... | [Newsapp - Google Ch...]
```

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- User login with invalid credentials



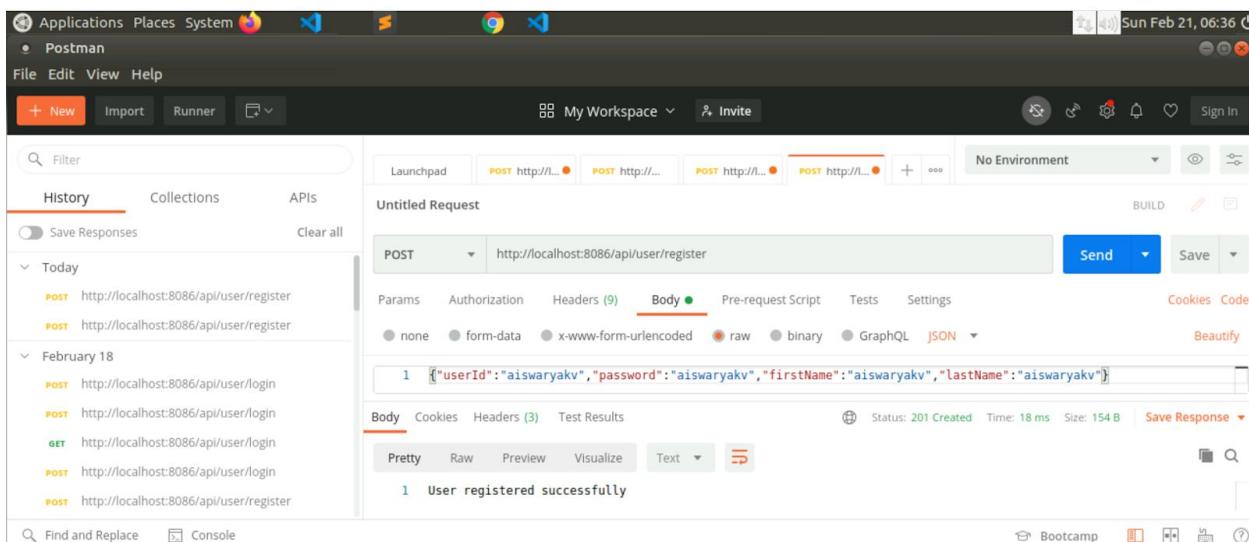
A screenshot of the Spring Tool Suite interface. The central window shows a terminal session titled "Console". The output of the session is as follows:

```
<terminated> UserControllerTest [TestNG] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (Feb 20, 2021, 11:23:28 AM)
11:23:32.180 [main] DEBUG org.apache.http.impl.client.DefaultHttpClient - Connection can be kept alive indefinitely
11:23:32.181 [main] DEBUG org.apache.http.impl.client.DefaultHttpClient - Authentication required
11:23:32.181 [main] DEBUG org.apache.http.impl.client.DefaultHttpClient - localhost:8086 requested authentication
11:23:32.181 [main] DEBUG io.restarustest.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsing response as: text/plain;charset=ISO-8859-1
11:23:32.181 [main] DEBUG io.restarustest.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsed data to instance of: class org.apache.http.conn.Eof
11:23:32.192 [main] DEBUG org.apache.http.wire - <<{ "message": "UserId and Password mismatch"}>>
11:23:32.192 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Releasing connection org.apache.http.impl.ManagedClientConnectionImpl@
{
  "message": "UserId and Password mismatch"
}
PASSED: test_loginUser
PASSED: test_loginUser
PASSED: test_loginUser

=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
=====
```

- User Registration using Postman testing



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- User login with existing UserId

The screenshot shows the Postman application interface. On the left, the 'History' tab is selected, displaying a list of API requests made today and on February 18. A specific POST request to `http://localhost:8086/api/user/register` is highlighted. The main panel shows an 'Untitled Request' with a POST method and URL `http://localhost:8086/api/user/register`. The 'Body' tab is active, showing a JSON payload: `{"userId": "aiswarya", "password": "aiswarya", "firstName": "aiswarya", "lastName": "aiswarya"}`. The response status is 409 Conflict, with the message 'User with Id already exists'.

- User successfully login

The screenshot shows the Postman application interface. The 'History' tab is selected, displaying a list of API requests made today and on February 18. A specific POST request to `http://localhost:8086/api/user/login` is highlighted. The main panel shows an 'Untitled Request' with a POST method and URL `http://localhost:8086/api/user/login`. The 'Body' tab is active, showing a JSON payload: `{"userId": "aiswarya", "password": "aiswarya"}`. The response status is 200 OK, with the message 'User successfully logged in'.

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- User login failure

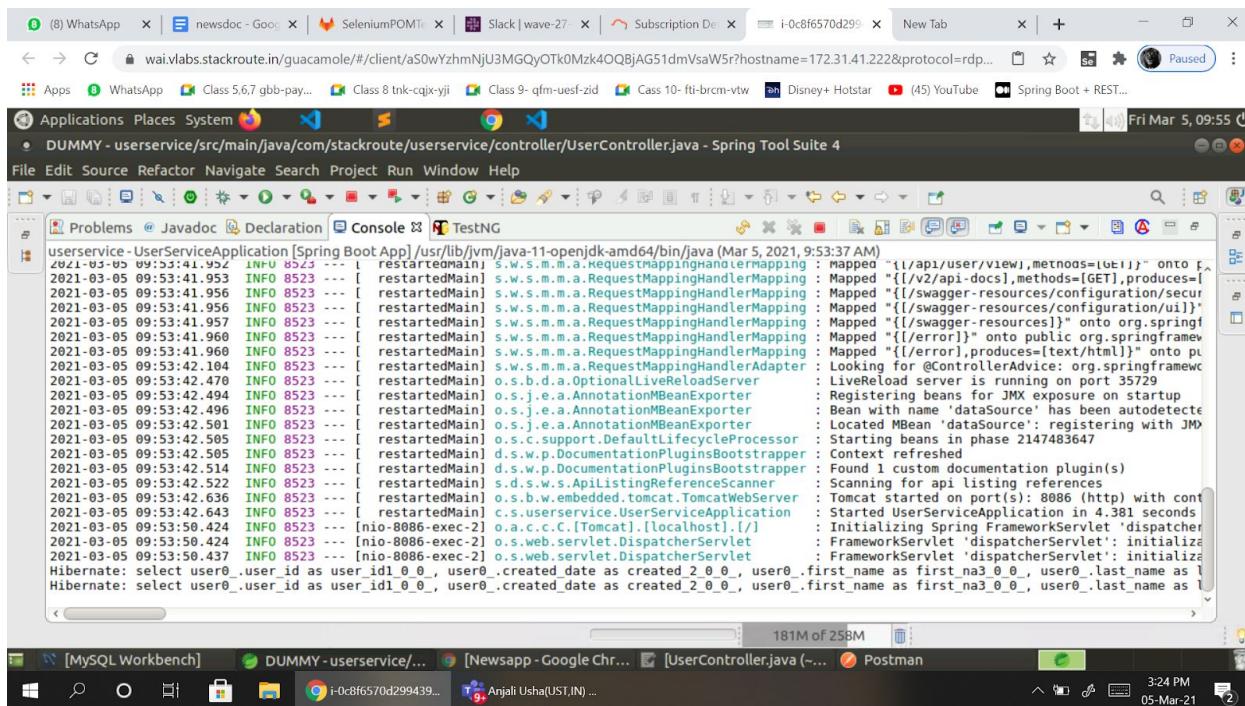
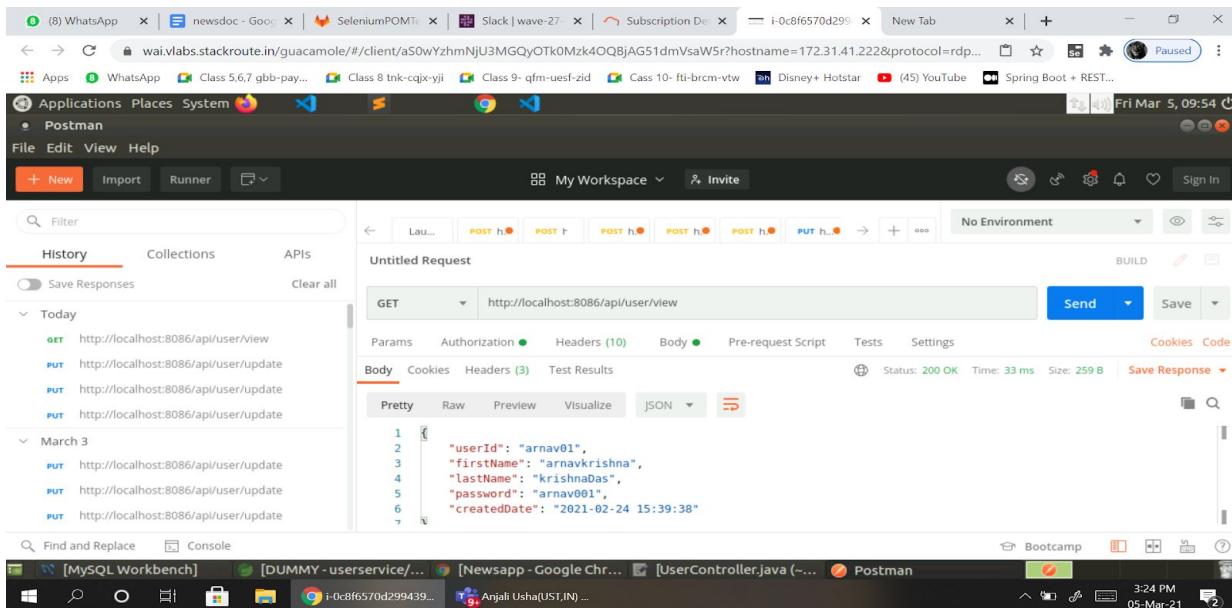
The screenshot shows the Postman application interface. In the 'History' section, there are three failed POST requests to `http://localhost:8086/api/user/login`. The first two requests have status codes 401 Unauthorized, and the third has a status code of 401. The 'Body' tab shows JSON input: `{"userId": "anand", "password": "aiswarya"}`. The response body shows an error message: `{"message": "UserId and Password mismatch"}`.

- User Updation

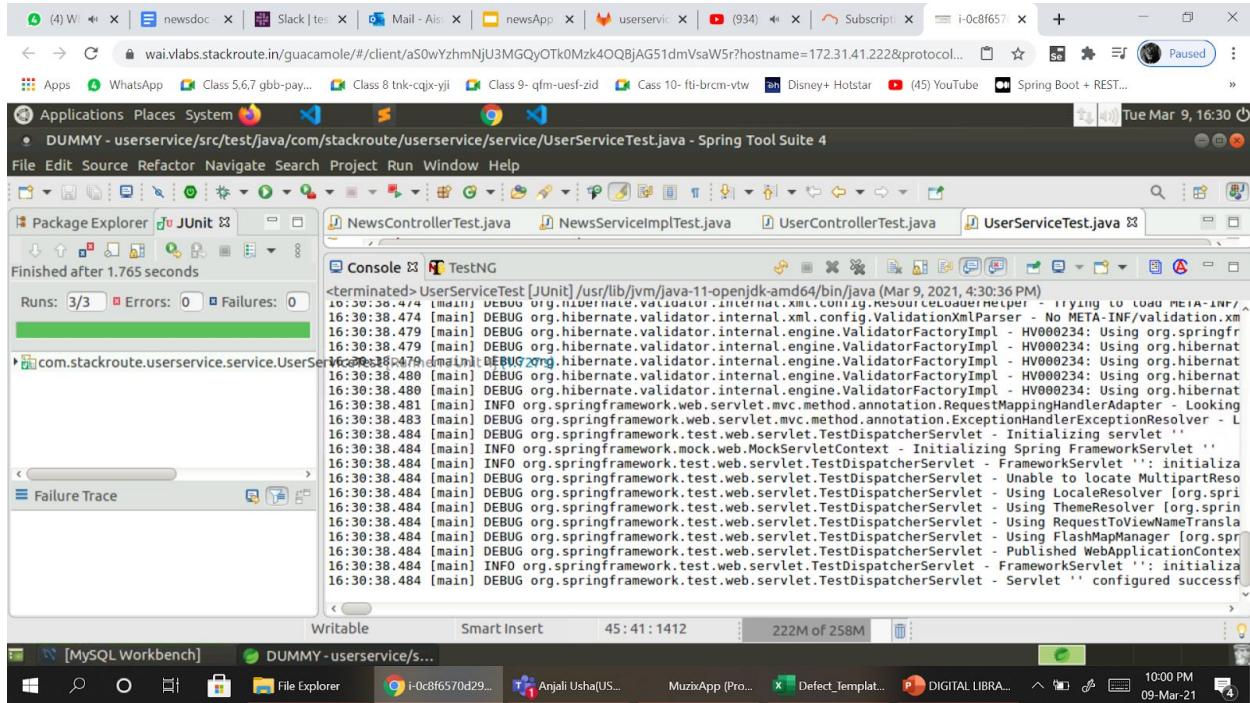
The screenshot shows the Postman application interface. In the 'History' section, there are multiple successful PUT requests to `http://localhost:8086/api/user/update`. The status code for all these requests is 201 Created. The response body for one of the updates is `Updated Successfullycom.stackroute.userservice.model.User@2defbcfd`. The 'Body' tab shows JSON input: `{} (empty)`.

NewsApp

- View user updation



5.1.2 User Service Testing:



5.2 FavouriteService module:

The classes we are testing in FavouriteService module are:

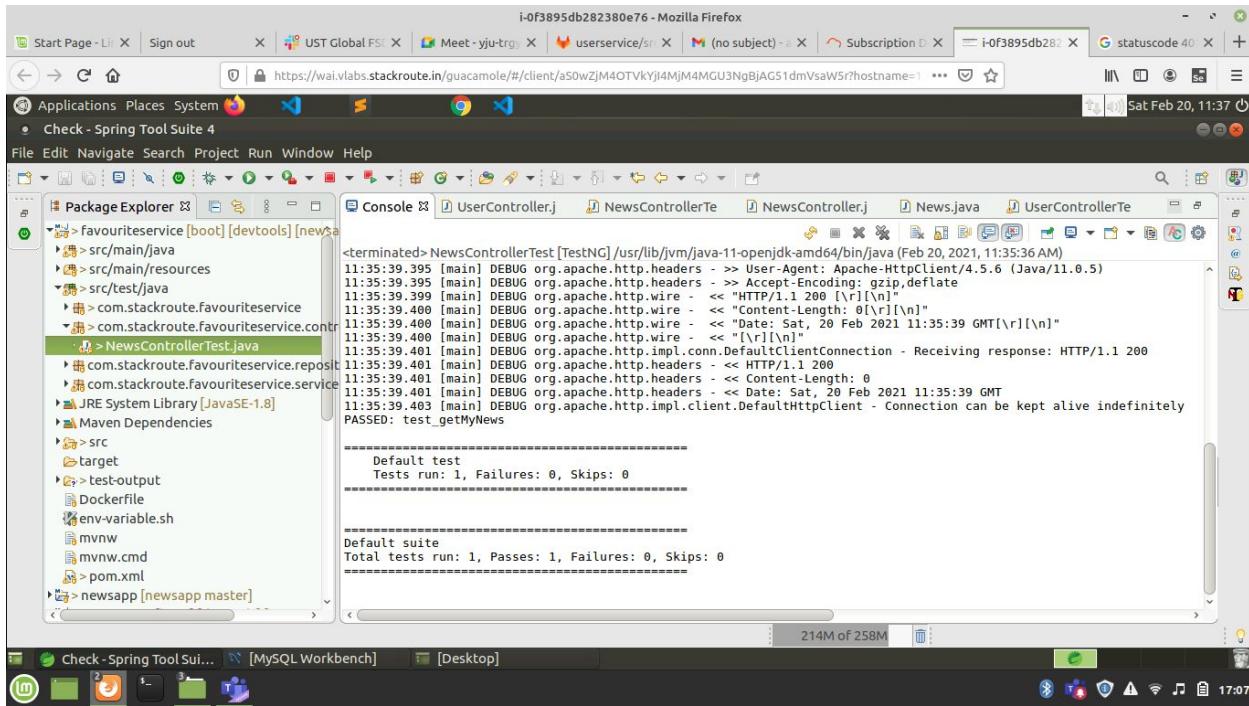
- Favourite Controller Test
- Favourite Service Test

5.2.1 Favourite Controller Testing:

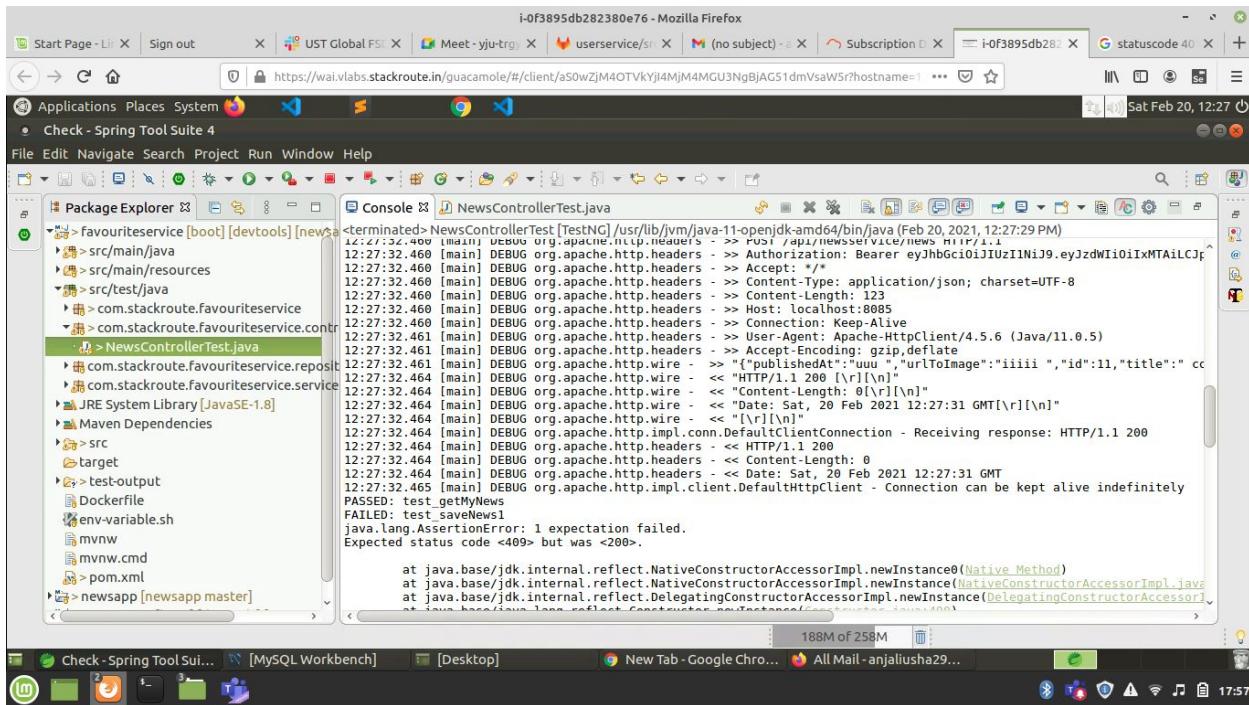
The favourite Controller class is tested using the Rest-Assured+TestNg framework. The functionalities assigned in the controller part are:

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- Save news to favourite list



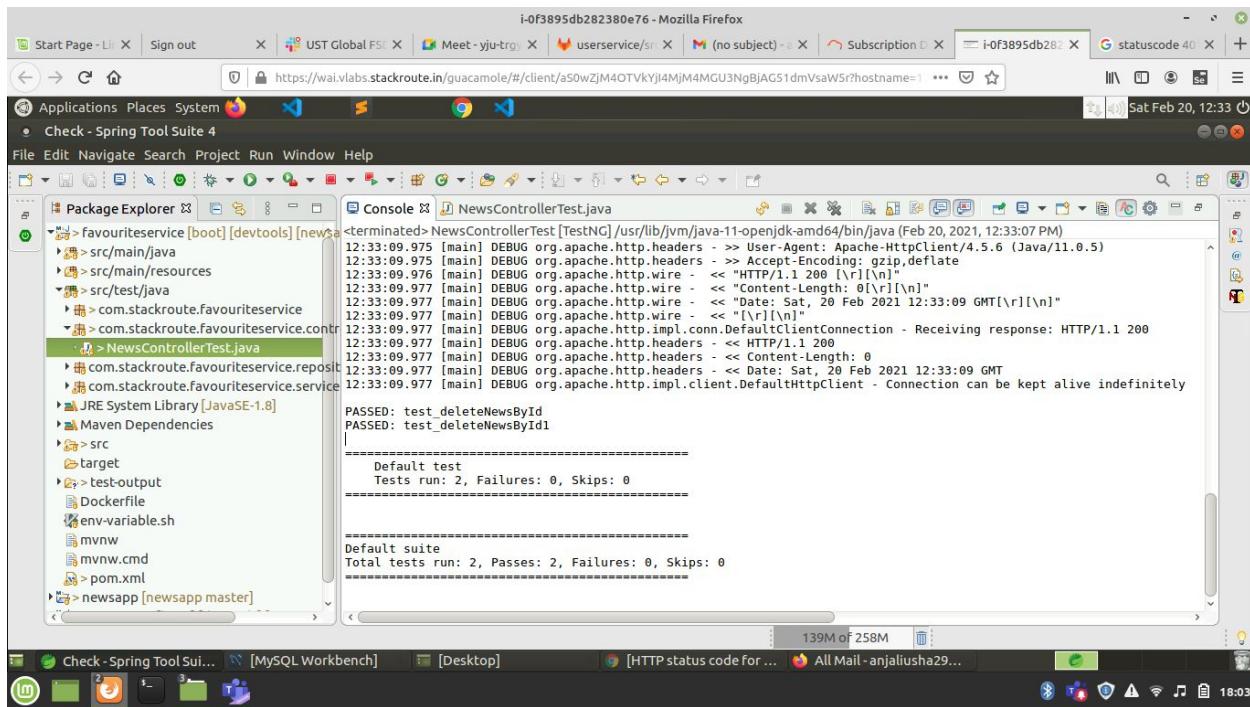
- Save a news which is already in the favourite list



NewsApp

The test case for adding a news which is already in the favourite list is failed. The status code must be 409 which means the data is in conflict. But it's showing 200 which means the data is again added to the favorite list which is a defect of the application.

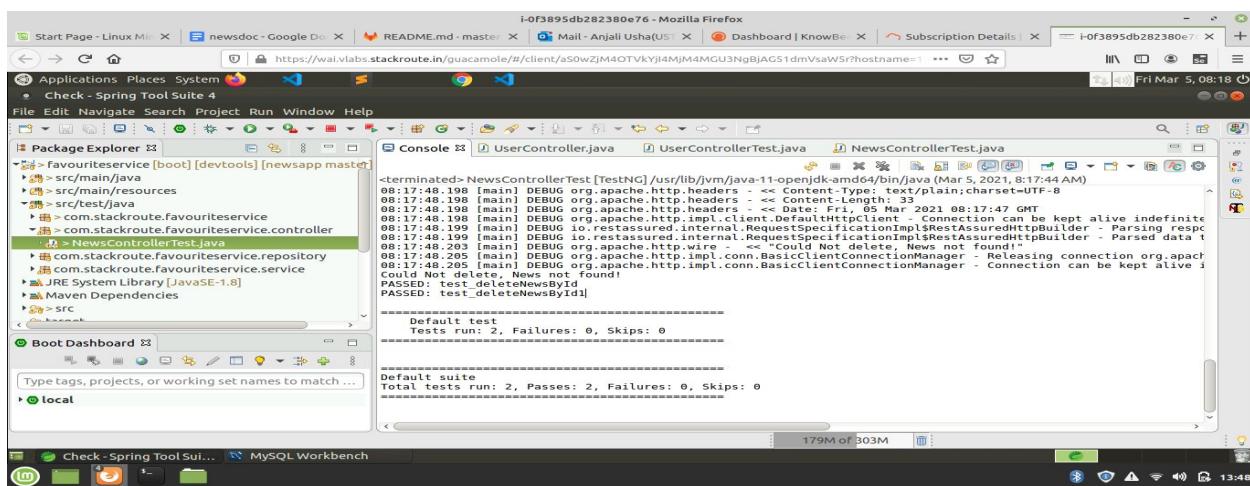
- Delete news from the favourite list using news id



A screenshot of the Spring Tool Suite interface. The left pane shows the Package Explorer with a project named 'newsapp'. The right pane contains a Console window displaying the output of a Java test class, 'NewsControllerTest.java'. The console output shows several DEBUG log entries from the Apache HttpClient library, indicating a successful connection and response handling. Below the logs, the test results are summarized:

```
PASSED: test_deleteNewsById
PASSED: test_deleteNewsById1
=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
```

- Delete news from the favourite list which is already deleted



A screenshot of the Spring Tool Suite interface. The left pane shows the Package Explorer with a project named 'newsapp master'. The right pane contains a Console window displaying the output of a Java test class, 'NewsControllerTest.java'. The logs show a series of DEBUG messages from the Apache HttpClient library. A specific error message is highlighted in red:

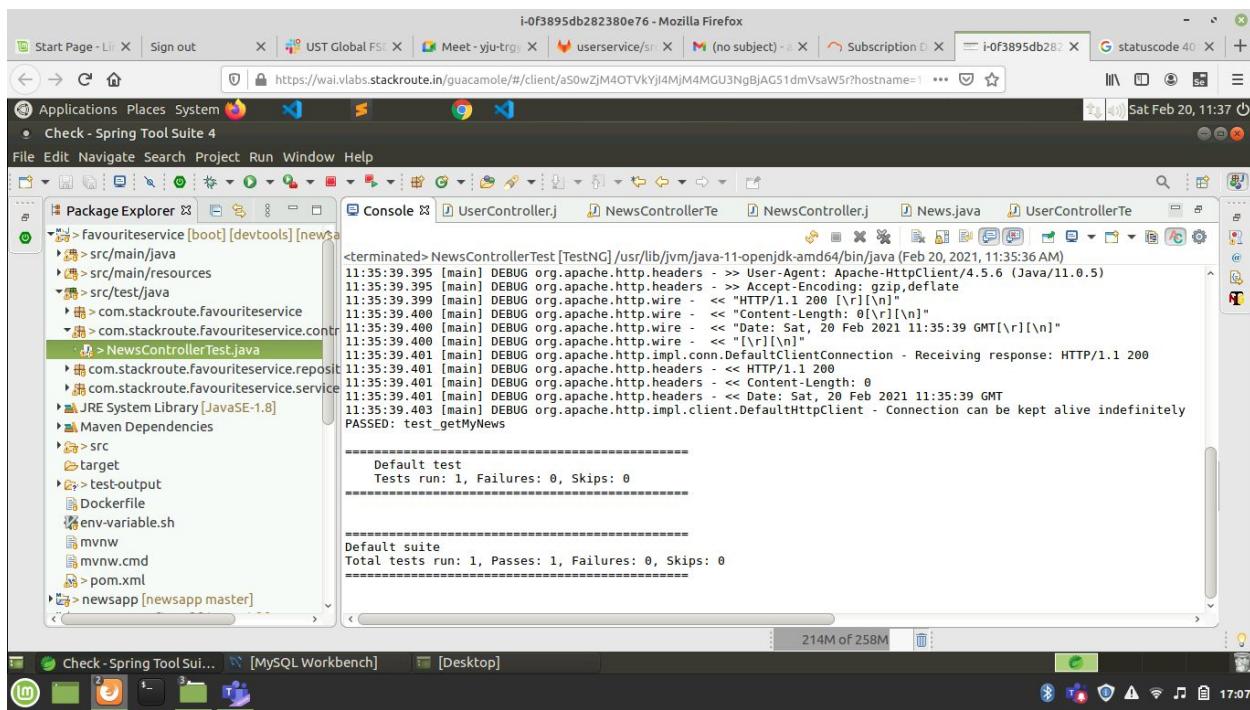
```
08:17:48.198 [main] DEBUG org.apache.http.headers - <> Content-Type: text/plain; charset=UTF-8
08:17:48.198 [main] DEBUG org.apache.http.headers - <> Date: Fri, 05 Mar 2021 08:17:47 GMT
08:17:48.198 [main] DEBUG org.apache.http.impl.client.DefaultHttpClient - Connection can be kept alive indefinitely
08:17:48.198 [main] DEBUG io.resteasy.internal.RequestSpecificationImpl$RestAssuredHttpBuilder - Parsing data 1
08:17:48.199 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Releasing connection org.apache.http.impl.conn.BasicClientConnectionManager - Connection can be kept alive indefinitely
08:17:48.203 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Could Not delete, News not found!
08:17:48.203 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Releasing connection org.apache.http.impl.conn.BasicClientConnectionManager - Connection can be kept alive indefinitely
08:17:48.203 [main] DEBUG org.apache.http.impl.conn.BasicClientConnectionManager - Could Not delete, News not found!
```

The test results summary shows:

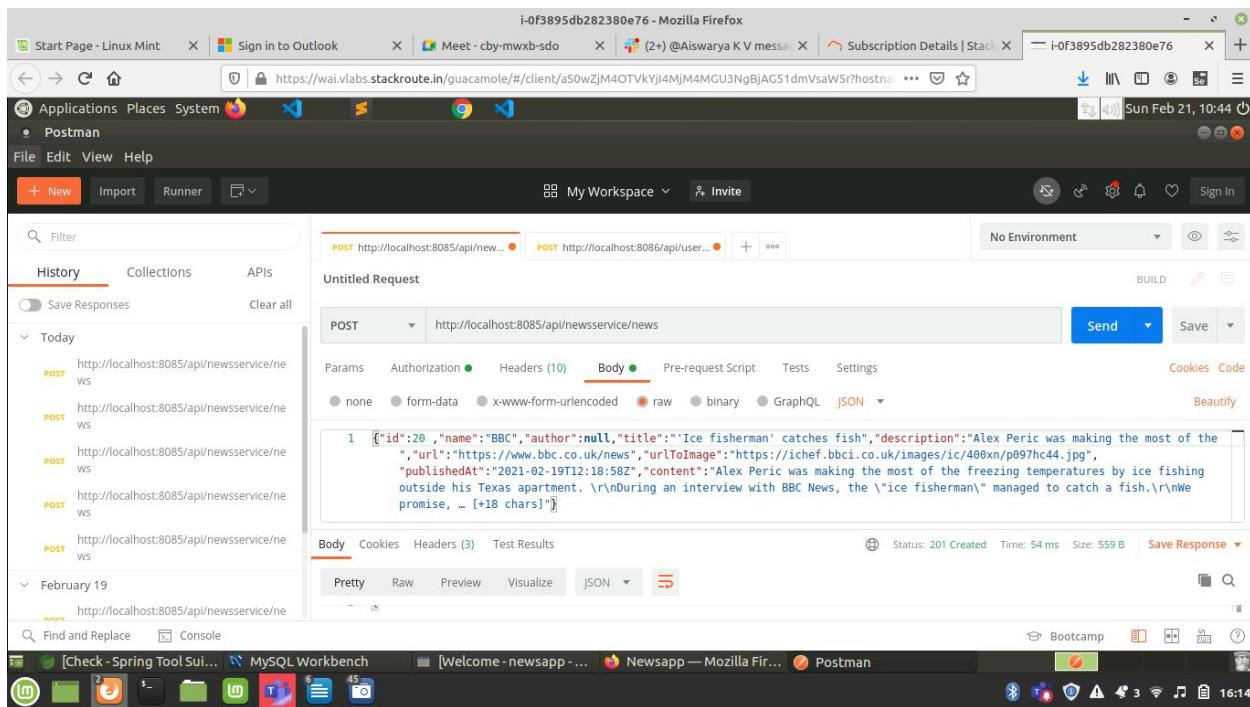
```
PASSED: test_deleteNewsById
PASSED: test_deleteNewsById1
=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
```

NewsApp

- Get news from the favourite list

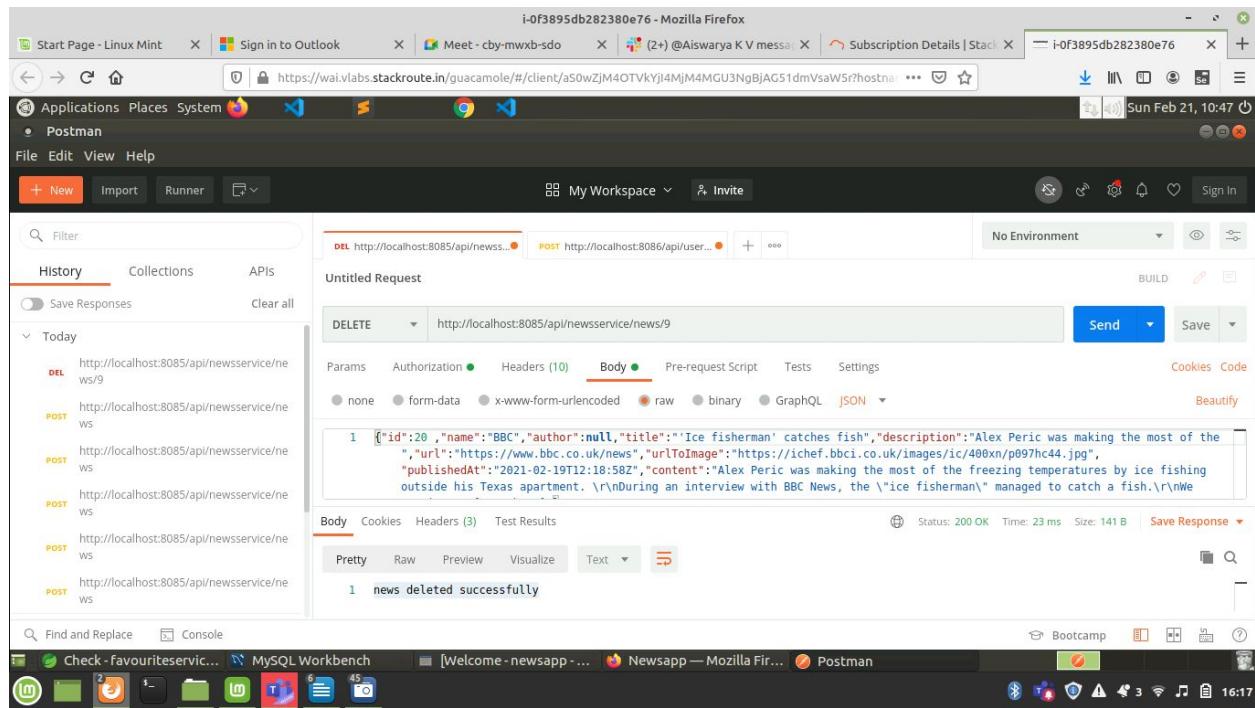


- Save news using postman

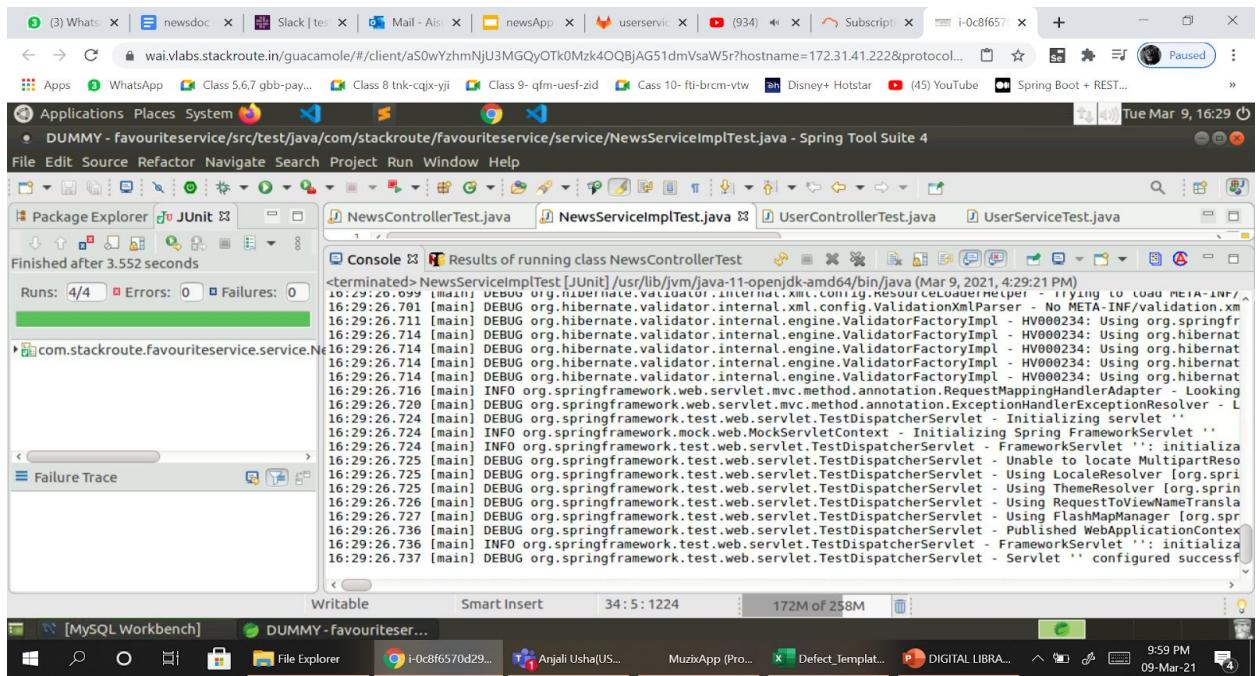


NewsApp

- Delete news using id



5.2..2 Favourite Service Testing:



6. TESTING THE FRONTEND

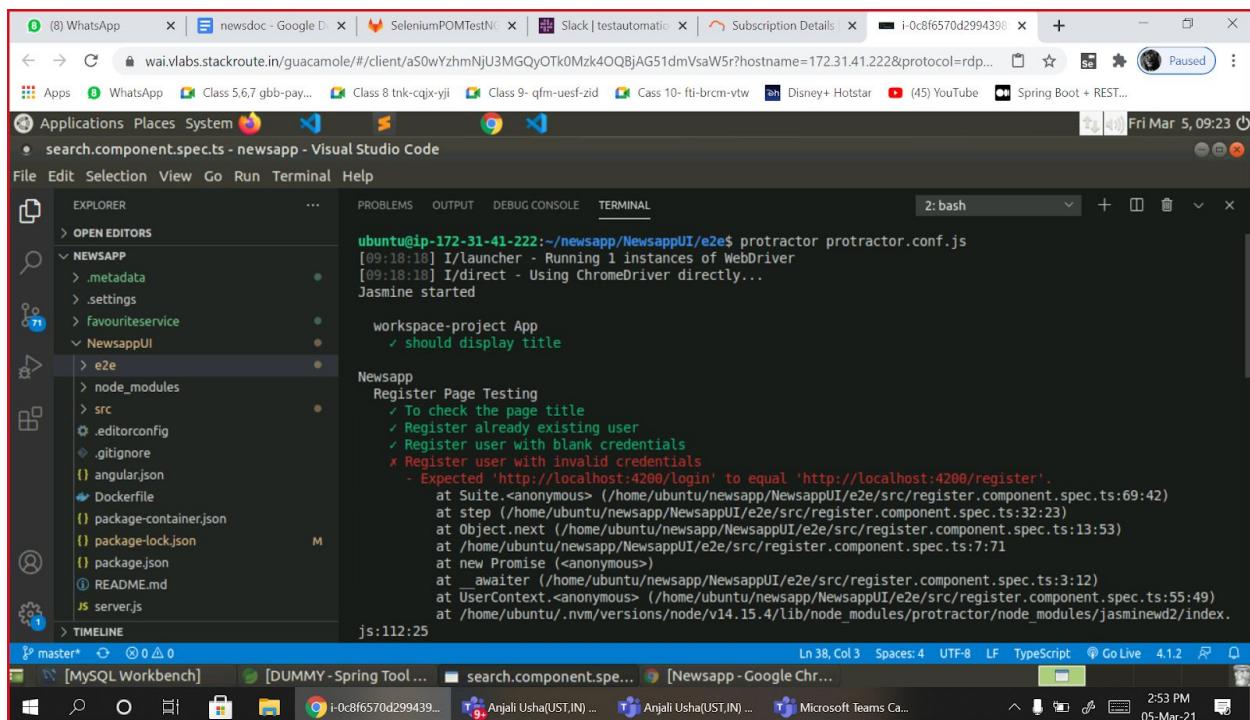
6.1 NewsAppUI module:

1) Frontend

- protractor-jasmine

6.1.1 E2E Testing:

Test Case for Registration using invalid credentials such as invalid userid(length is less than 5 or greater than 10) is failed. The web application is accepting invalid credentials.



```
ubuntu@ip-172-31-41-22:~/newsapp/NewsappUI/e2e$ protractor protractor.conf.js
[09:18:18] I/launcher - Running 1 instances of WebDriver
[09:18:18] I/direct - Using ChromeDriver directly...
Jasmine started

workspace-project App
  ✓ should display title

Newsapp
Register Page Testing
  ✓ To check the page title
  ✓ Register already existing user
  ✓ Register user with blank credentials
  ✗ Register user with invalid credentials
    - Expected 'http://localhost:4200/login' to equal 'http://localhost:4200/register'.
      at Suite.<anonymous> (/home/ubuntu/newsapp/NewsappUI/e2e/src/register.component.spec.ts:69:42)
      at step (/home/ubuntu/newsapp/NewsappUI/e2e/src/register.component.spec.ts:32:23)
      at Object.next (/home/ubuntu/newsapp/NewsappUI/e2e/src/register.component.spec.ts:13:53)
      at /home/ubuntu/newsapp/NewsappUI/e2e/src/register.component.spec.ts:7:71
      at new Promise (<anonymous>)
      at awaiter (/home/ubuntu/newsapp/NewsappUI/e2e/src/register.component.spec.ts:3:12)
      at UserContext.<anonymous> (/home/ubuntu/newsapp/NewsappUI/e2e/src/register.component.spec.ts:55:49)
      at /home/ubuntu/.nvm/versions/node/v14.15.4/lib/node_modules/protractor/node_modules/jasminewd2/index.js:112:25
js:112:25
```

In the application all the fields are mandatory . But here the user is able to register using the user id only, which is a defect in the application.

NewsApp

```

i-0f3895db282380e76 - Mozilla Firefox
Start Page - Linux Mint | newsdoc - Google Doc | Copy of FINAL_REVIE | newsApp - Google S... | Slack | Aiswarya K V... | Subscription Details | i-0f3895db282380e76

File Edit Selection View Go Run Terminal Help
OPEN EDITORS
> register.component.spec.ts > search.component.spec.ts > register.component.ts > package.json > package-lock.json > protractor ...
NEWSAPP
> .settings
> favouriteservice
> NewsappUI
> e2e
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
4: bash
workspace-project App
should display title

Register Page Testing
To check the page title
Register user with without firstname seconname and password
- Expected "http://localhost:4200/login" to equal 'http://localhost:4200/register',
at Suite.<anonymous> (/home/ubuntu/Downloads/newsapp/NewsappUI/e2e/src/register.component.spec.ts:32:44)
at step (/home/ubuntu/Downloads/newsapp/NewsappUI/e2e/src/register.component.spec.ts:32:23)
at Object.next (/home/ubuntu/Downloads/newsapp/NewsappUI/e2e/src/register.component.spec.ts:13:53)
at /home/ubuntu/Downloads/newsapp/NewsappUI/e2e/src/register.component.spec.ts:7:71
at new Promise (<anonymous>)
atawaiter (/home/ubuntu/Downloads/newsapp/NewsappUI/e2e/src/register.component.spec.ts:3:12)
at UserContext.<anonymous> (/home/ubuntu/Downloads/newsapp/NewsappUI/e2e/src/register.component.spec.ts:29:71)
at /home/ubuntu/.nvm/versions/node/v14.15.4/lib/node_modules/protractor/node_modules/jasminewd2/index.js:112:25
at new ManagedPromise (/home/ubuntu/.nvm/versions/node/v14.15.4/lib/node_modules/protractor/node_modules/selenium-webdriver/l
Ln 27, Col 64 Spaces: 3 UTF-8 LF TypeScript 4.1.2

[MySQL Workbench] [Check - Spring Tool Sui... register.component.sp... Newsapp - Google Ch... 13:16

```

```

(4) WhatsApp | newsdoc - Google Doc | Subscription De... | i-0c8f6570d299 - Mozilla Firefox
WhatsApp | Class 5,6,7 gbb-pay... | Class 8 tnk-cqix-yji | Class 9- qfm-uesf-zid | Class 10- fti-brcm-vtw | Disney+ Hotstar | (45) YouTube | Spring Boot + REST...
File Edit Selection View Go Run Terminal Help
OPEN EDITORS
> register.component.css > register.component.html > register.component.ts > authentication-routing.m... > authentication.module.ts > authentication.service.sp... > authentication.service.ts
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
2: bash
workspace-project App
should display title

Login Page Testing
Login User invalid userId
Login User invalid Password
Login User blank credentials
Login User valid credentials

Newsapp
Dashboard Page Testing
To check the page title
To check the favourite list title
To check the search list title

Container Page Testing
To check Favourite List has become Empty
To check add to my article
To check add to my article2
To check delete from my article

Favourite List Page Testing
To check the favourite list title

Ln 10, Col 7 Spaces: 2 UTF-8 LF JavaScript Go Live
[MySQL Workbench] [DUMMY - favouriteser... [Newsapp - Google Ch... [newsapp] protractor.conf.js - ne... 11:57 AM 09-Mar-21

```

```

> login
> register
# register.component.css
register.component.html
register.component.ts
authentication-routing.m...
authentication.module.ts

Search Page Testing
To check search
To check invalid search

Newsapp
Logout Page Testing
To check the Logout

```

7. DEFECT REPORT

Defect_Template - NewsApp - Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Defect ID	Defect description	Reproducible (Yes\No)	Steps to Reproduce	Priority	Severity	Reported By	Reported Date	Resolution	Stage / PD of	Cause of Defect	Resolved By	Resolved Date	Remarks	Closed By	Closed Date	Defect Status	Resolution Status
2	D1	User Registration using Invalid credentials.	Yes	In User Registration, the length of User Id and Password should be in between 5 to 8.	High	High	Anjali Usha	25-02-21	It should give a pop up or an error message as "The Userid and Password are invalid".							Open	Not Resolved	
3	D2	User Registration with only User Id.	Yes	User should not be able to register by giving user id only. Other fields are mandatory.	High	High	Anjali Usha	26-02-21	It should give a pop up or an error message as "Fields are empty".							Open	Not Resolved	
4	D3	User can add a news multiple times.	Yes	User should not be able to add a news multiple times to the favourite list.	High	High	Aiswarya K	27-02-21	It should give a pop up or an error message as "News Already exists".							Open	Not Resolved	
5																		

8. CONCLUSION

- Number of Test cases tested in the back end is 18. Out of which, 1 test case has failed.
- Number of Test cases tested in the front end is 20. Out of which, 2 test cases have failed.
- Total number of defects found in the web application is 3.
 - Users should not be able to register using UserId only. All the fields are mandatory.
 - UserId should have the length >5 and length < 10.
 - Users should not be able to save news multiple times.

9. REFERENCE

- <https://stackbooks-ust.stackroute.in/>
- <https://www.guru99.com/>
- <https://github.com/>
- <https://stackoverflow.com/>
- <https://youtu.be/D6qPDww2X8k>
- <https://youtu.be/dl2y2Gtjemg>
- <https://howtodoinjava.com/spring-boot2/testing/spring-boot-mockito-junit-example/>