Cookbook.com

Revature Group 1 - Project 2

Project Overview: Description

- A website that users can look up recipes for meals on, and if they create an account can save recipes for later. They can look up specific recipes by keyword, or they can click a button that presents them a random recipe. Recipe information includes the name of the recipe, ingredients required, steps required and a small picture accompanying it. Users that are logged on may also like other recipes, add recipes to their cookbooks and follow other users or cookbooks. Users may also create their own recipes.

Project Overview: User Stories

- As an anonymous user, I want to be able to…
  - Search for recipes (optionally by ingredient, type, area, prep time)
  - Look up random recipes
- As a logged in user, I want to be able to...
  - Save meals to my account
  - Create my own recipe
  - Follow other users
  - Leave a review on other recipes

Project Overview: MVP

- Searching recipes with optional filters
- Creating and storing users
  - Register yourself as a new user
  - Login
  - Usernames should be hashed
  - Passwords should be salted and hashed
- Random meal button

Project Overview: MVP Cont.

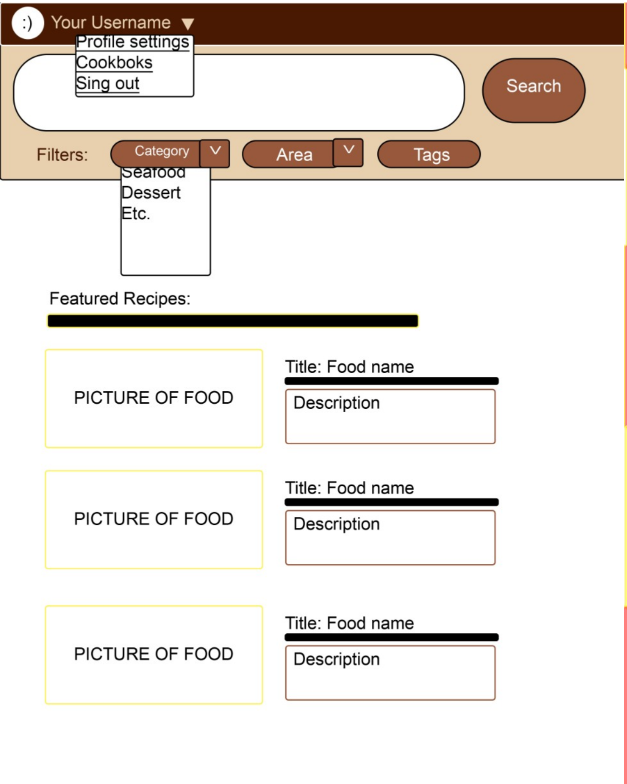
- When showing recipes
  - Show thumbnail of meal
  - Show ingredients included
  - Show steps in recipe
- Ability for users to create different “cookbooks”
- Ability for users to add recipes to their “cookbooks”

Project Overview: Stretch Goals

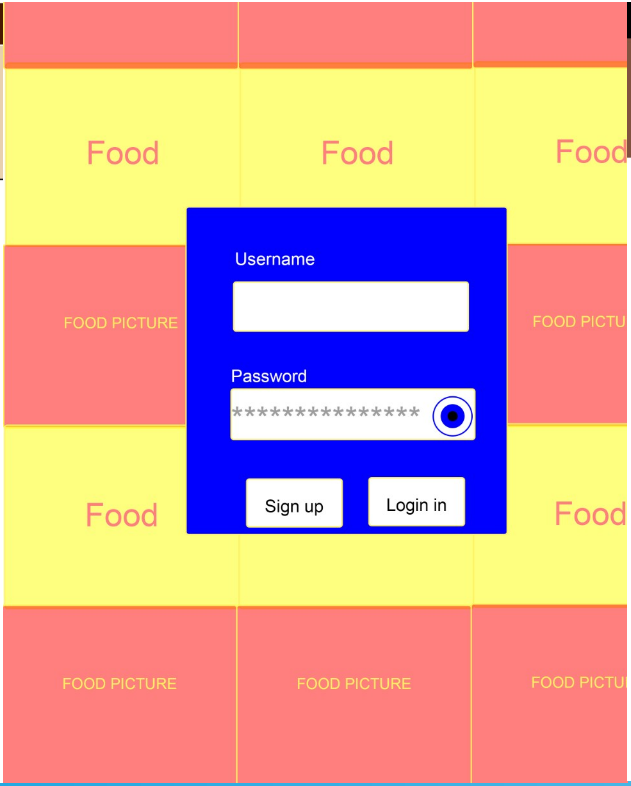
- Users can like recipes
- Ability for users to follow other users
- Ability for users to follow different “cookbooks”
- Users can leave a review for recipes
- Ability for users to download recipes
- Ability for users to create new recipes

Project Overview: Concept Pages

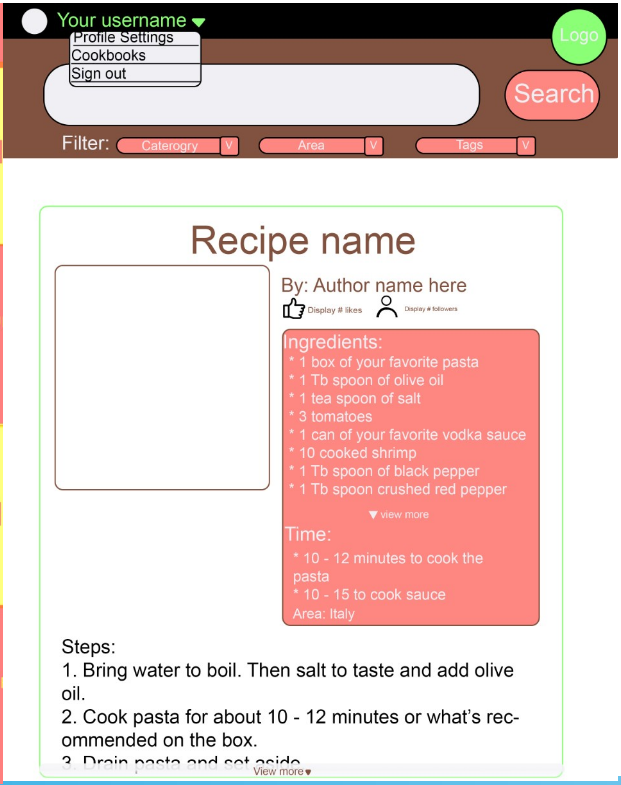
Main/Welcome Page



Login Page



Recipe Page



Recipe name

By: Author name here

Ingredients:
- 1 box of your favorite pasta
- 1 Tb spoon of olive oil
- 1 tea spoon of salt
- 3 tomatoes
- 1 can of your favorite vodka sauce
- 10 cooked shrimp
- 1 Tb spoon of black pepper
- 1 Tb spoon crushed red pepper

Time:
- 10 - 12 minutes to cook the pasta
- 10 - 15 to cook sauce

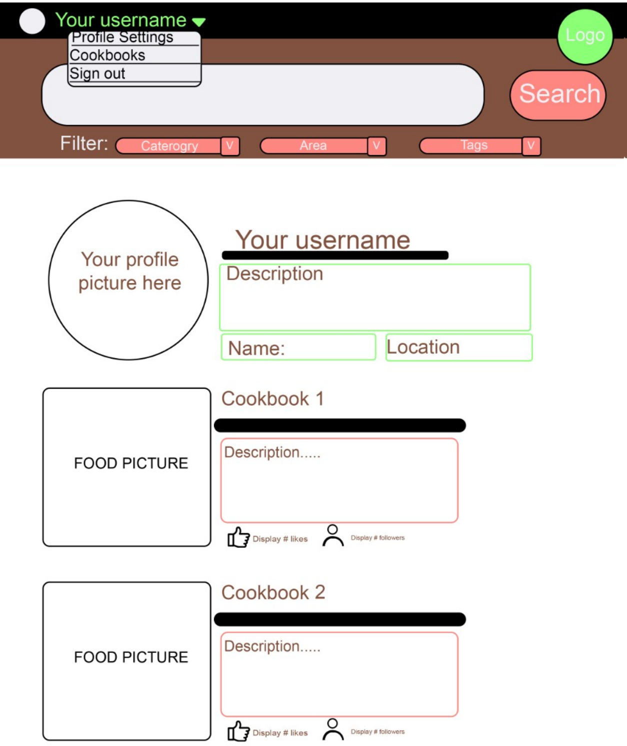
Area: Italy

Steps:
1. Bring water to boil. Then salt to taste and add olive oil.
2. Cook pasta for about 10 - 12 minutes or what's recommended on the box.
3. Drain pasta and set aside.

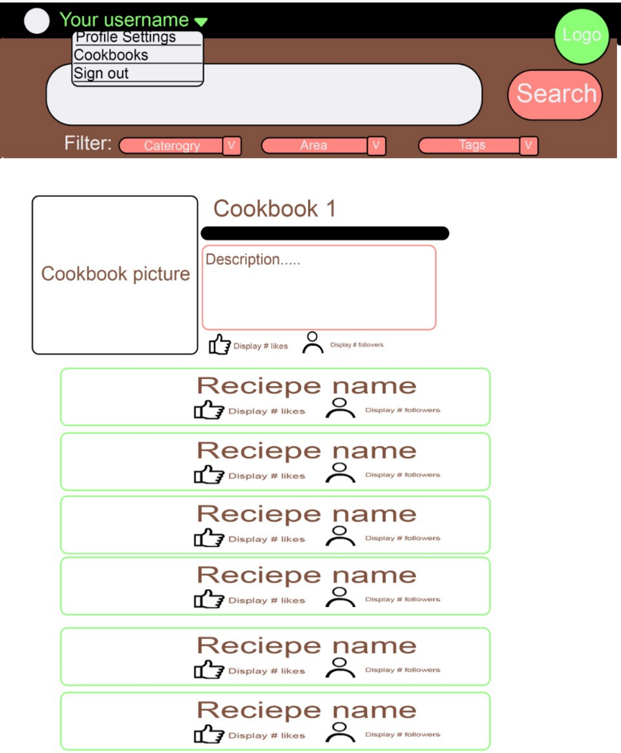
12/26/2021

Project Overview: Concept Pages Cont.

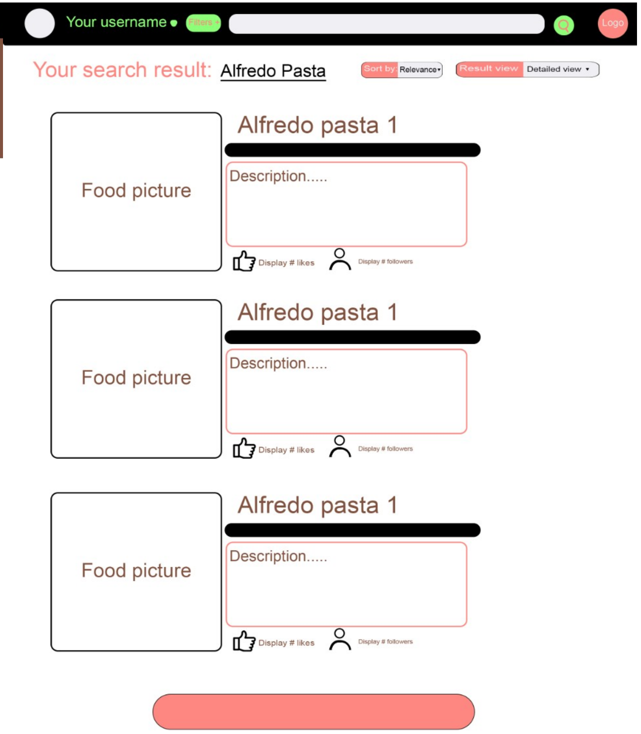
Profile Page



Cookbook Page

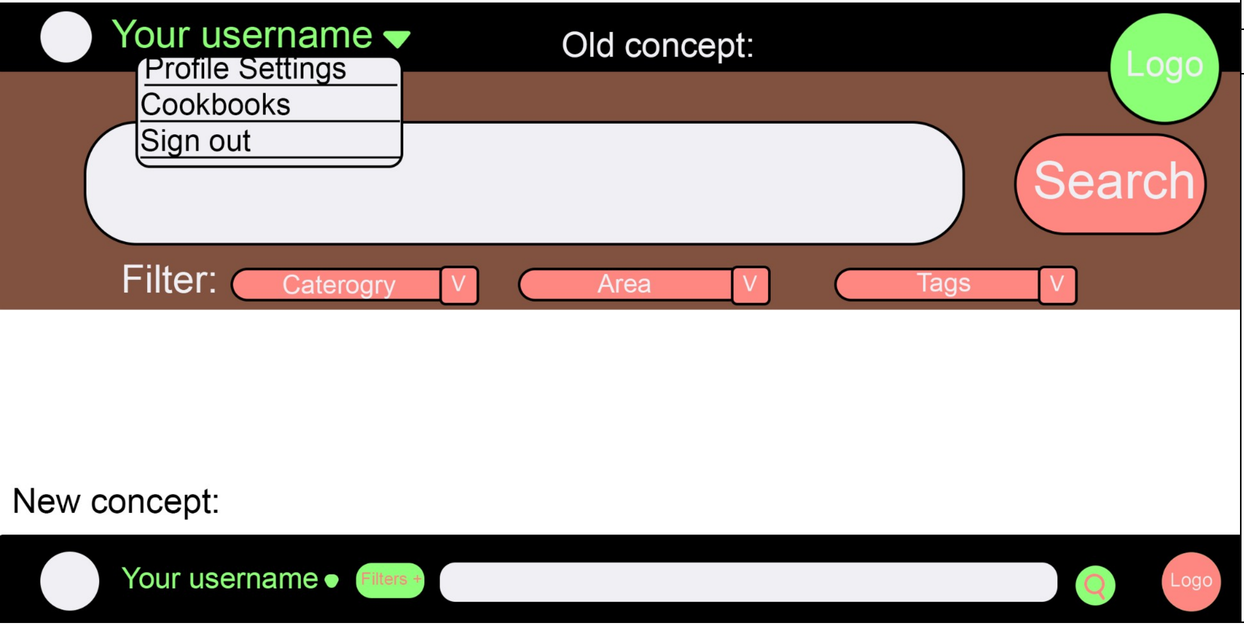


Search Results Page

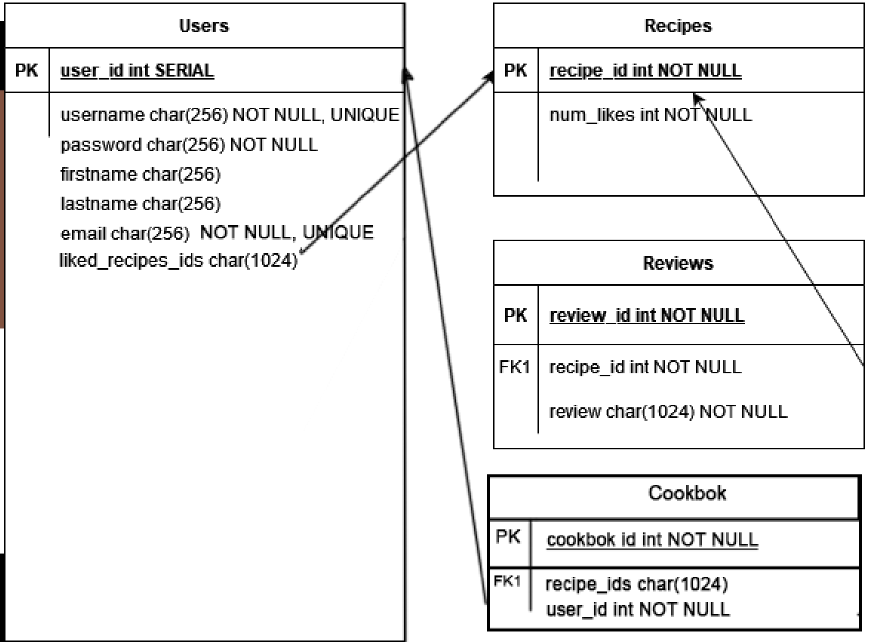


Project Overview: Concept Pages Cont.

Navbar Alternative



Database Tables



Users

PK user_id int SERIAL

username char(256) NOT NULL, UNIQUE
password char(256) NOT NULL
firstname char(256)
lastname char(256)
email char(256) NOT NULL, UNIQUE
liked_recipes_ids char(1024)

Recipes

PK recipe_id int NOT NULL

num_likes int NOT NULL

Reviews

PK review_id int NOT NULL

FK1 recipe_id int NOT NULL
review char(1024) NOT NULL

Cookbok

PK cookbok_id int NOT NULL

FK1 recipe_ids char(1024)
user_id int NOT NULL

Technologies Used: Backend

- Spring Framework, Spring Boot, Web
- Hibernate
- Logback
- Maven
- Junit5 (testing)
- Mockito (testing)
- H2 Database (testing)

Technologies Used: Frontend

- Angular/NodeJS
- Bulma
- MealDB (external API)
- Cucumber
- Selenium

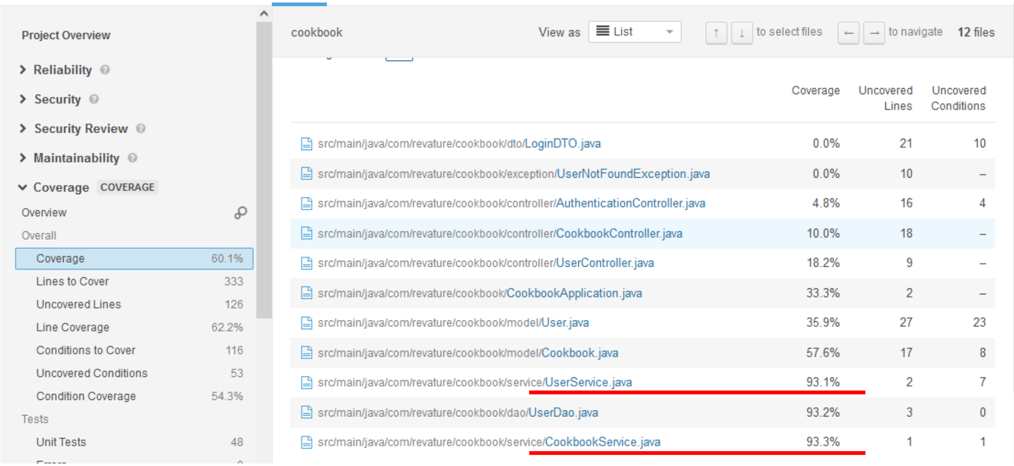
Technologies Used: Project Management

- AWS RDS
- AWS EC2
- Git
- SonarCloud

Design/Development Philosophies

- Behavior/Test Driven Development
- Scrum
- RESTful Web Service Design
- 3-Tiered architecture

Unit Tests and Code Coverage



Project Overview

- Reliability
- Security
- Security Review
- Maintainability
- Coverage COVERAGE

Overview

Overall

Coverage	60.1%
Lines to Cover	333
Uncovered Lines	126
Line Coverage	62.2%
Conditions to Cover	116
Uncovered Conditions	53
Condition Coverage	54.3%

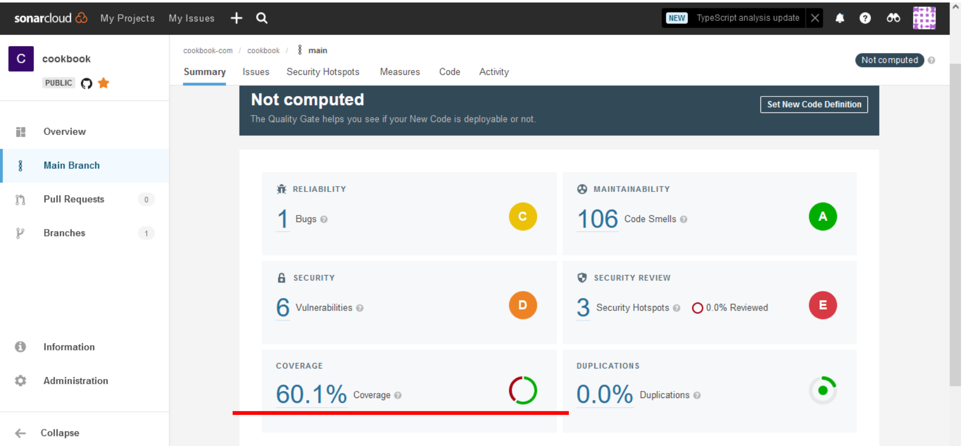
Tests

Unit Tests	48

	Coverage	Uncovered Lines	Uncovered Conditions
src/main/java/com/revature/cookbook/dto/LoginDTO.java	0.0%	21	10
src/main/java/com/revature/cookbook/exception/UserNotFoundException.java	0.0%	10	–
src/main/java/com/revature/cookbook/controller/AuthenticationController.java	4.8%	16	4
src/main/java/com/revature/cookbook/controller/CookbookController.java	10.0%	18	–
src/main/java/com/revature/cookbook/controller/UserController.java	18.2%	9	–
src/main/java/com/revature/cookbook/CookbookApplication.java	33.3%	2	–
src/main/java/com/revature/cookbook/model/User.java	35.9%	27	23
src/main/java/com/revature/cookbook/model/Cookbook.java	57.6%	17	8
src/main/java/com/revature/cookbook/service/UserService.java	93.1%	2	7
src/main/java/com/revature/cookbook/dao/UserDao.java	93.2%	3	0
src/main/java/com/revature/cookbook/service/CookbookService.java	93.3%	1	1

Code Coverage

SonarCloud Stats



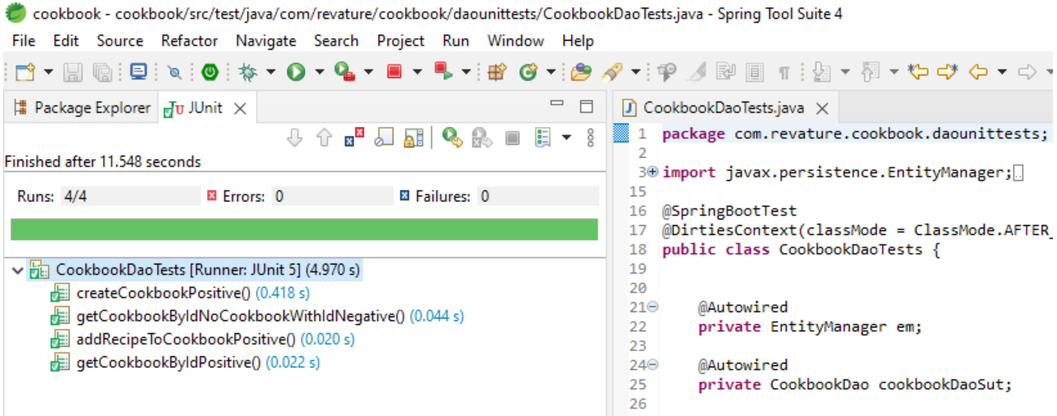
Not computed

The Quality Gate helps you see if your New Code is deployable or not.

RELIABILITY	MAINTAINABILITY
1 Bugs — C	106 Code Smells — A
SECURITY	SECURITY REVIEW
6 Vulnerabilities — D	3 Security Hotspots ○ 0.0% Reviewed — E
COVERAGE	DUPLICATIONS
60.1% Coverage	0.0% Duplications

Unit Tests

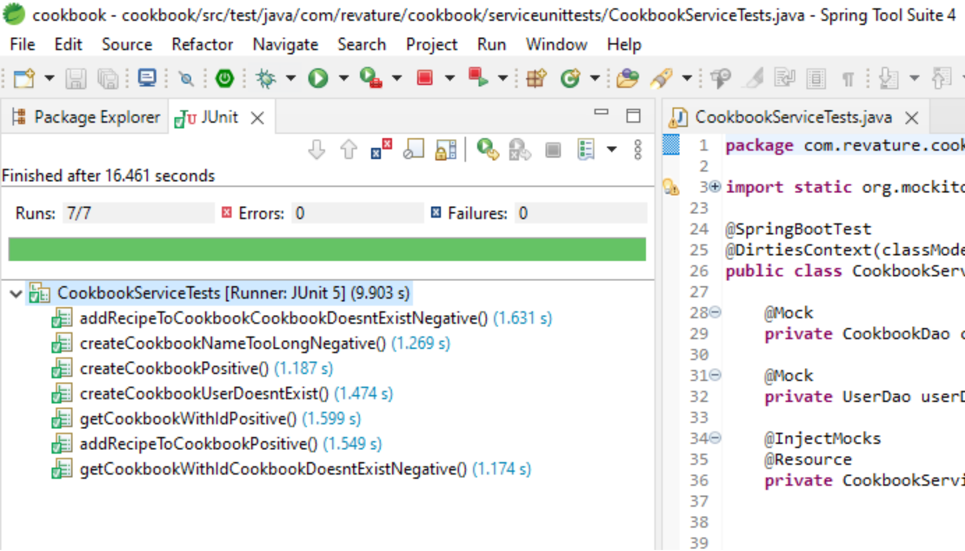
Cookbook Data Access Layer Unit Tests


cookbook - cookbook/src/test/java/com/revature/cookbook/daounittests/CookbookDaoTests.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
JUnit
CookbookDaoTests.java

```
Finished after 11.548 seconds

Runs: 4/4    Errors: 0    Failures: 0

CookbookDaoTests [Runner: JUnit 5] (4.970 s)
    createCookbookPositive() (0.418 s)
    getCookbookByIdNoCookbookWithIdNegative() (0.044 s)
    addRecipeToCookbookPositive() (0.020 s)
    getCookbookByIdPositive() (0.022 s)
```

```java
package com.revature.cookbook.daounittests;

import javax.persistence.EntityManager;

@SpringBootTest
@DirtiesContext(classMode = ClassMode.AFTER_
public class CookbookDaoTests {


    @Autowired
    private EntityManager em;

    @Autowired
    private CookbookDao cookbookDaoSut;

```


cookbook - cookbook/src/test/java/com/revature/cookbook/serviceunittests/CookbookServiceTests.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
JUnit
CookbookServiceTests.java

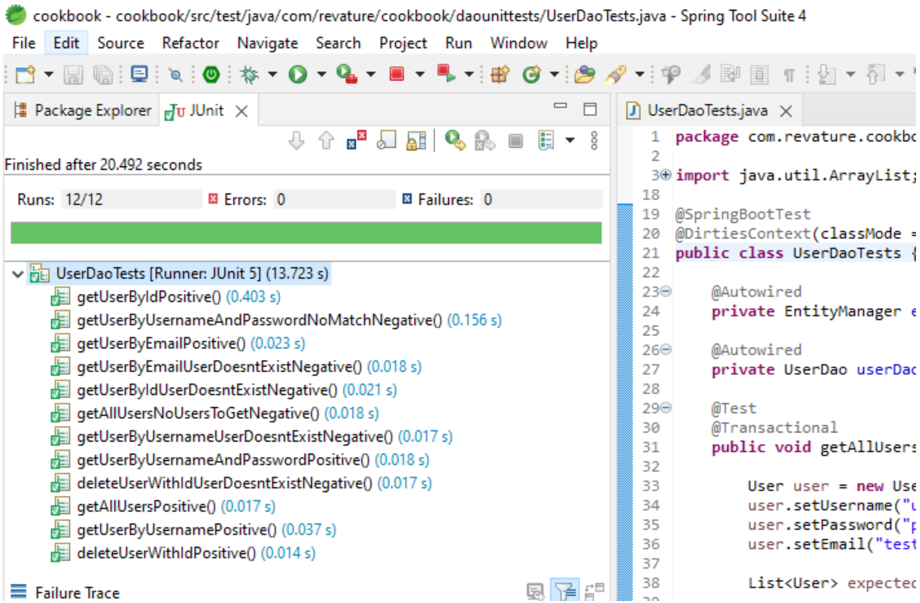
```
Finished after 16.461 seconds

Runs: 7/7    Errors: 0    Failures: 0

CookbookServiceTests [Runner: JUnit 5] (9.903 s)
    addRecipeToCookbookCookbookDoesntExistNegative() (1.631 s)
    createCookbookNameTooLongNegative() (1.269 s)
    createCookbookPositive() (1.187 s)
    createCookbookUserDoesntExist() (1.474 s)
    getCookbookWithIdPositive() (1.599 s)
    addRecipeToCookbookPositive() (1.549 s)
    getCookbookWithIdCookbookDoesntExistNegative() (1.174 s)
```

```java
package com.revature.cook

import static org.mockito

@SpringBootTest
@DirtiesContext(classMode
public class CookbookServ

    @Mock
    private CookbookDao c

    @Mock
    private UserDao userD

    @InjectMocks
    @Resource
    private CookbookServi



```

Cookbook Service Layer Unit Tests

Unit Tests

User Data Access Layer Unit Tests



cookbook - cookbook/src/test/java/com/revature/cookbook/daounittests/UserDaoTests.java - Spring Tool Suite 4

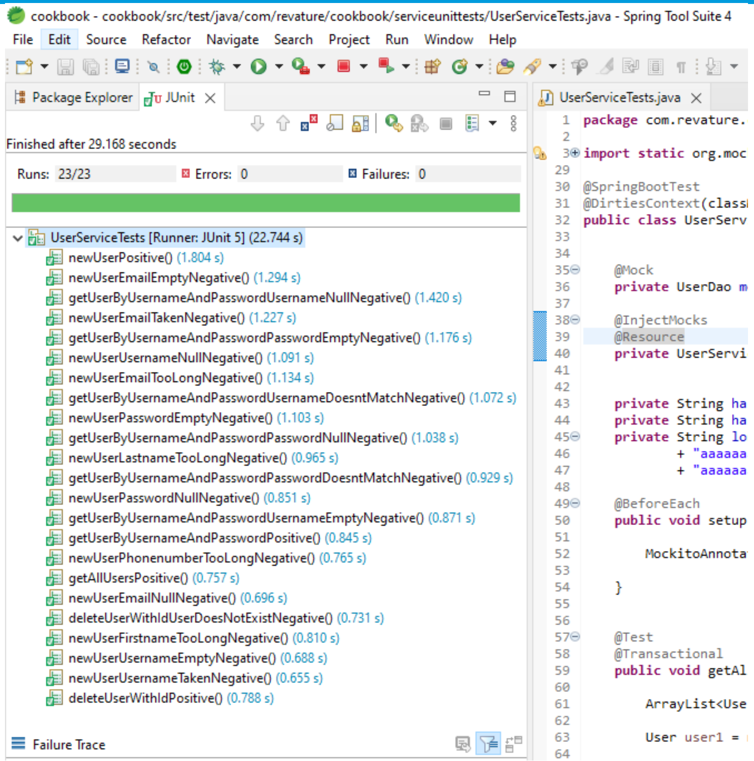
Finished after 20.492 seconds

Runs: 12/12 Errors: 0 Failures: 0

UserDaoTests [Runner: JUnit 5] (13.723 s)
- getUserByIdPositive() (0.403 s)
- getUserByUsernameAndPasswordNoMatchNegative() (0.156 s)
- getUserByEmailPositive() (0.023 s)
- getUserByEmailUserDoesntExistNegative() (0.018 s)
- getUserByIdUserDoesntExistNegative() (0.021 s)
- getAllUsersNoUsersToGetNegative() (0.018 s)
- getUserByUsernameUserDoesntExistNegative() (0.017 s)
- getUserByUsernameAndPasswordPositive() (0.018 s)
- deleteUserWithIdUserDoesntExistNegative() (0.017 s)
- getAllUsersPositive() (0.017 s)
- getUserByUsernamePositive() (0.037 s)
- deleteUserWithIdPositive() (0.014 s)

UserDaoTests.java

```java
package com.revature.cookbo

import java.util.ArrayList;

@SpringBootTest
@DirtiesContext(classMode =
public class UserDaoTests {

    @Autowired
    private EntityManager e

    @Autowired
    private UserDao userDao

    @Test
    @Transactional
    public void getAllUsers

        User user = new Use
        user.setUsername("u
        user.setPassword("p
        user.setEmail("test

        List<User> expectec
```



cookbook - cookbook/src/test/java/com/revature/cookbook/serviceunittests/UserServiceTests.java - Spring Tool Suite 4

Finished after 29.168 seconds

Runs: 23/23 Errors: 0 Failures: 0

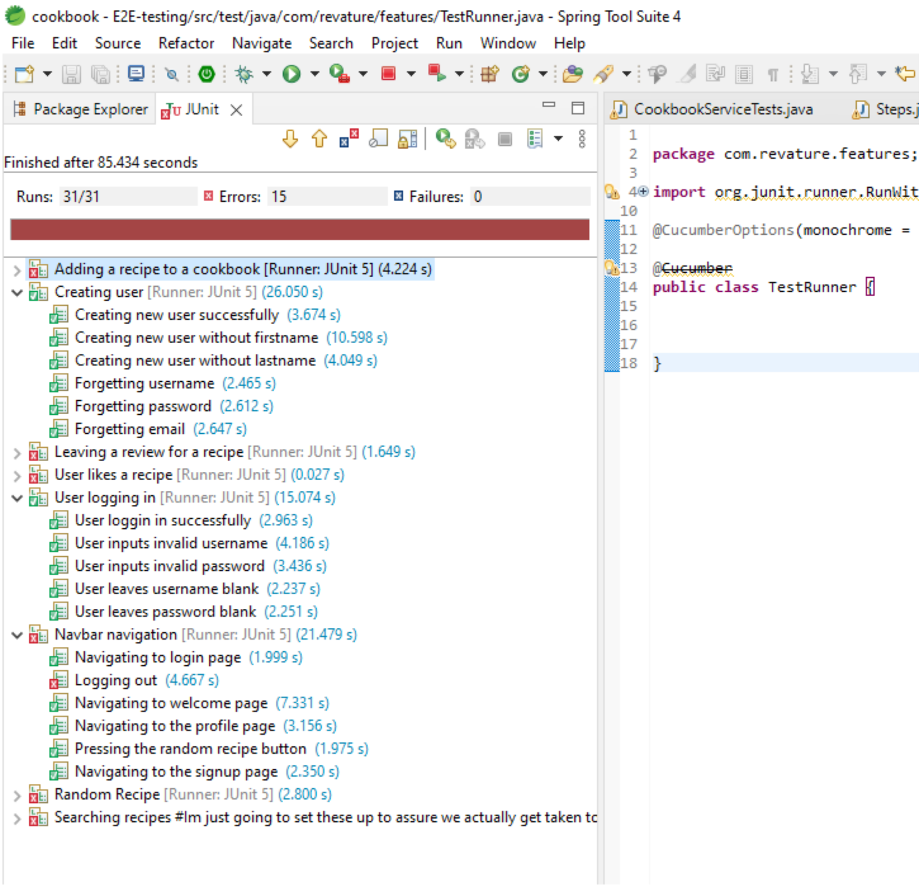
UserServiceTests [Runner: JUnit 5] (22.744 s)
- newUserPositive() (1.804 s)
- newUserEmailEmptyNegative() (1.294 s)
- getUserByUsernameAndPasswordUsernameNullNegative() (1.420 s)
- newUserEmailTakenNegative() (1.227 s)
- getUserByUsernameAndPasswordPasswordEmptyNegative() (1.176 s)
- newUserUsernameNullNegative() (1.091 s)
- newUserEmailTooLongNegative() (1.134 s)
- getUserByUsernameAndPasswordUsernameDoesntMatchNegative() (1.072 s)
- newUserPasswordEmptyNegative() (1.103 s)
- getUserByUsernameAndPasswordPasswordNullNegative() (1.038 s)
- newUserLastnameTooLongNegative() (0.965 s)
- getUserByUsernameAndPasswordPasswordDoesntMatchNegative() (0.929 s)
- newUserPasswordNullNegative() (0.851 s)
- getUserByUsernameAndPasswordUsernameEmptyNegative() (0.871 s)
- getUserByUsernameAndPasswordPositive() (0.845 s)
- newUserPhonenumberTooLongNegative() (0.765 s)
- getAllUsersPositive() (0.757 s)
- newUserEmailNullNegative() (0.696 s)
- deleteUserWithIdUserDoesNotExistNegative() (0.731 s)
- newUserFirstnameTooLongNegative() (0.810 s)
- newUserUsernameEmptyNegative() (0.688 s)
- newUserUsernameTakenNegative() (0.655 s)
- deleteUserWithIdPositive() (0.788 s)

UserServiceTests.java

```java
package com.revature.

import static org.moc

@SpringBootTest
@DirtiesContext(class
public class UserServ


    @Mock
    private UserDao m

    @InjectMocks
    @Resource
    private UserServi


    private String ha
    private String ha
    private String lo
            + "aaaaaa
            + "aaaaaa

    @BeforeEach
    public void setup

        MockitoAnnota

    }


    @Test
    @Transactional
    public void getAl

        ArrayList<Use

        User user1 =
```

User Service Layer Unit Tests

End to End Testing



cookbook - E2E-testing/src/test/java/com/revature/features/TestRunner.java - Spring Tool Suite 4

```
Finished after 85.434 seconds

Runs: 31/31        Errors: 15        Failures: 0

Adding a recipe to a cookbook [Runner: JUnit 5] (4.224 s)
Creating user [Runner: JUnit 5] (26.050 s)
    Creating new user successfully (3.674 s)
    Creating new user without firstname (10.598 s)
    Creating new user without lastname (4.049 s)
    Forgetting username (2.465 s)
    Forgetting password (2.612 s)
    Forgetting email (2.647 s)
Leaving a review for a recipe [Runner: JUnit 5] (1.649 s)
User likes a recipe [Runner: JUnit 5] (0.027 s)
User logging in [Runner: JUnit 5] (15.074 s)
    User loggin in successfully (2.963 s)
    User inputs invalid username (4.186 s)
    User inputs invalid password (3.436 s)
    User leaves username blank (2.237 s)
    User leaves password blank (2.251 s)
Navbar navigation [Runner: JUnit 5] (21.479 s)
    Navigating to login page (1.999 s)
    Logging out (4.667 s)
    Navigating to welcome page (7.331 s)
    Navigating to the profile page (3.156 s)
    Pressing the random recipe button (1.975 s)
    Navigating to the signup page (2.350 s)
Random Recipe [Runner: JUnit 5] (2.800 s)
Searching recipes #Im just going to set these up to assure we actually get taken tc
```

```java

package com.revature.features;

import org.junit.runner.RunWit

@CucumberOptions(monochrome =

@~~Cucumber~~
public class TestRunner {



}
```

Live Demo

- http://ec2-18-117-174-173.us-east-2.compute.amazonaws.com:8082