SOFTWARE VERIFICATION, VALIDATION AND TESTING

TESTING DOCUMENTATION

REDDIT

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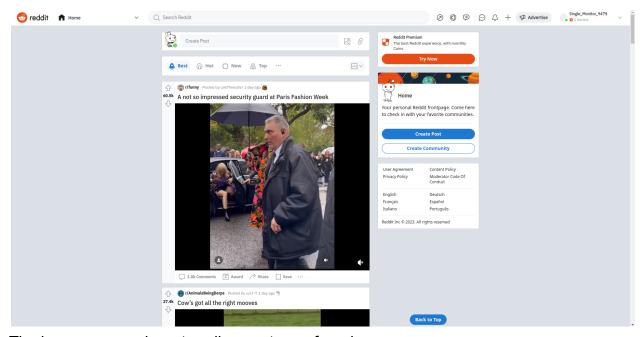
1. Introduction

1.1. About the project

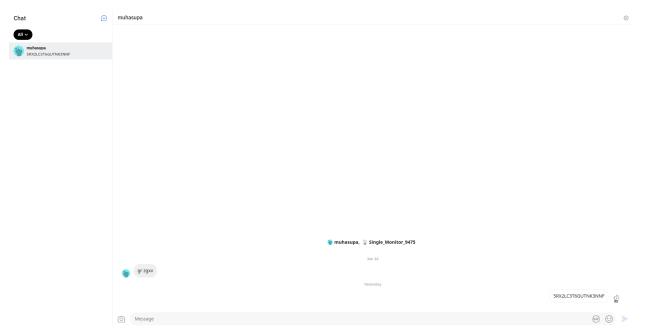
Reddit is a social news and discussion website where users can post and comment on content. It is organized into various topic-specific communities called "subreddits." Each subreddit has its own rules and moderators, and users can subscribe to as many subreddits as they want. Reddit also has a feature called "upvoting" and "downvoting," which allows users to signal their approval or disapproval of a post or comment. Reddit is known for its open and diverse community, as well as its role in hosting and promoting discussions on a wide range of topics.

1.2. Project Functionalities and Screenshots

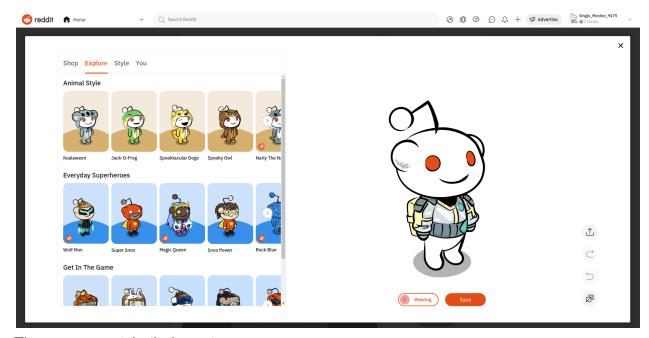
The main purpose and hence the functionalities of this project is to test various functions of Reddit.



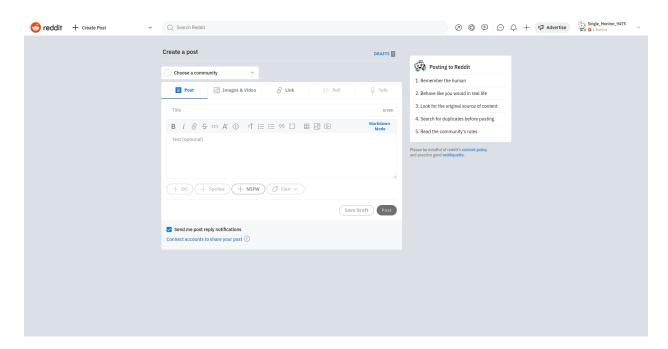
The homescreen where trending posts are found.



The chat section where the user can communicate with other users



The user can style their avatar.



The user can also create posts and save them to drafts or post them.

2. Test Plan

2.1. Scope

Since Reddit is a complex website with numerous features it would be nearly impossible

to test all features properly in respect to the assigned ECTS points for the course.

Hence we have decided to focus on a number of "feature batches". We define a feature

batch as a closely related functionalities which enable the execution of a user flow.

Our scope for testing consists of:

- Reddit Avatar functionality, where we will test the creation, update and

modification of it.

Common user flows such as log in, log out.

- User communication functionality through chat where we will test gifs, emotes

deletion and sending of messages

Posting of comments and posts as well as post draft functionality and user

reporting flow

- Miscellaneous test considering the UI

2.2. Testing Environment and Tools

For the project we are using the Java programming language. Additionally, we are using

Maven version 4.0.0. as our project bootstrapper and dependency manager paired with

jUnit version 5.7.1 in addition to Selenium 4.6.0.

All test have been performed on Google Chrome running on Fedora 36 and Windows

Chrome driver version: 109.0.5414.74 (Fedora 36)

Chrome driver version: 107.0.5304.62

3. Test Execution

3.0 Reddit profile initializer

Test Name: Reddit profile ini	tializer			
Description: Initializes a chr	ome profile in order	to perform other tes	sts with ease	
Pre-condition(s): You must	have a reddit accou	nt and know its cred	dentials	
Test Steps: 1. Start the test	Test Data:	Expected Result: The user will use the opened Chrome tab to login into Reddit.	Actual Result: Depends on the user.	Status: TBA

Notes: This test is only intended for easier creation of ChromeProfiles

```
class testChromeProfile {
    /**
    * This test can be used as a setup in order to create a Chrome Profile,
    * it eliminates the need of constant log in
    *
    */
    private static WebDriver webDriver;
    private static String baseURL;

    @BeforeAll
    static void setUP() {
        System.setProperty("webdriver.chrome.driver", "/home/musaka/Desktop/Semester
```

```
5/svvt/chromedriver");
      ChromeOptions options = new ChromeOptions();
      options.addArguments("--no-sandbox",
                           "--disable-notifications",
                           "--disable-extensions");
      String path = "/home/musaka/Desktop/RedditProfile";
      options.addArguments("--user-data-dir="+path);
      options.addArguments("--start-maximized");
      webDriver = new ChromeDriver(options);
      baseURL = "https://www.reddit.com/";
    }
   @AfterAll
    static void tearDownAfterClass() throws Exception {
      webDriver.quit();
    }
   @Test
    void testCommentPersistance() throws InterruptedException {
      webDriver.get(baseURL);
      webDriver.manage().window().maximize();
      Thread.sleep(300000);
    }
```

3.1 Reddit Avatar

Test Name: Test Avatar Body Color

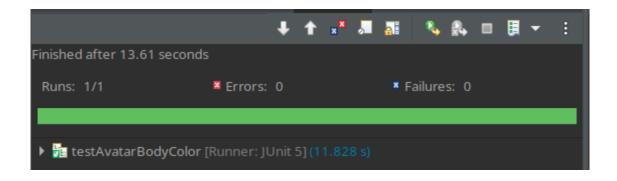
Description: The test performs a check of every preset available body color for the avatar

Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached

Test Steps:	Test Data:	Expected Result:	Actual Result:	
Navigate to user profile		The test goes through	The actual result was	
2. Open create avatar panel		all body options and	identical to the	
3. Open you section		every body change is	expected result.	
4. Open body section		reflected in the avatar		
5. Get all body options		preview screen.		PASS
6. Check every body option				PASS

Notes: The test does not test custom colors.

```
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[4]/div/div/div/div[1]/div[1]/div[1]/nav/div/div[4]"))
                 ).click();
      //open body section
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[4]/div/div/div/div[1]/div[1]/div[1]/div/div[2]/section/div[1]"))
                 ).click();
      // check body change color
      // get all color body options
      WebElement holder = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[4]/div/div/div/div[1]/div[1]/div[1]/div/div/div[2]/section/div[2]/div[2]/div/
div[1]/div/div"))
                 );
      List<WebElement> colorOptions = holder.findElements(By.xpath("./child::*"));
      for(int i = 0; i < colorOptions.size()-1;i++) {</pre>
           colorOptions.get(i).click();
           System.out.print(colorOptions.get(i).getCssValue("background-color"));
           Thread.sleep(1000);
           WebElement body = webDriver.findElement(By.xpath("/html/body"));
           String style = body.getAttribute("style");
           int startIndex = style.indexOf("--color-body:");
           String color = style.substring(startIndex + 13 , startIndex + 20);
           int r = Integer.valueOf(color.substring(1,3),16);
           int g = Integer.valueOf(color.substring(3,5),16);
           int b = Integer.valueOf(color.substring(5,7),16);
           System.out.println(" - " + "rgba(" + r + ", " + g + ", " + b + ", 1)");
           assertEquals(colorOptions.get(i).getCssValue("background-color"), "rgba("
        " + g + ", " + b + ", 1)");
     } }
```



Toot Hamile Calling				
Description: It tests if Garmo	ent changes a	are reflected in the Reddit	Avatar preview	
Pre-condition(s): 3.0 test cached	se is a pre-co	ondition, the chrome drive	r must have account crede	entials
Test Steps: 1. Open create avatar 2. Open style section 3. Open face section 4. Get the item holder 5. Get all face options 6. Check if they match	Test Data:	Expected Result: The avatar changes are properly reflected in the avatar preview screen	Actual Result: The actual result matches the expected result	PASS

Notes: The test tests only certain garments

Test Name: Garment Change

```
@Test
   void testGarments() throws InterruptedException {
      webDriver.get(baseURL);
      WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));
      //open create avatar
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[2]/div/div/div/div[2]/div[3]/div[2]/div/div[1]/div/button"))
                 ).click();
      //open style section
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[4]/div/div/div/div[1]/div[1]/div[1]/nav/div/div[3]"))
                 ).click();
      // open face section
      //
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[4]/div/div/div/div[1]/div[1]/div[1]/div/div[2]/div[4]"))
                 ).click();
      // get the item holder
      WebElement itemHolder = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[4]/div/div/div/div[1]/div[1]/div[1]/div/div[3]/div[2]/div/div[2]"))
      // get all face options
      List<WebElement> faceOptions = itemHolder.findElements(By.xpath("./child::*"));
      List<WebElement> actualCurrentState = new ArrayList<WebElement>();
      for( WebElement faceOption : faceOptions) {
           //System.out.println(faceOption.getAttribute("class"));
           WebElement child = faceOption.findElement(By.xpath("./child::*"));
           WebElement child2 = child.findElement(By.xpath("./child::*"));
```

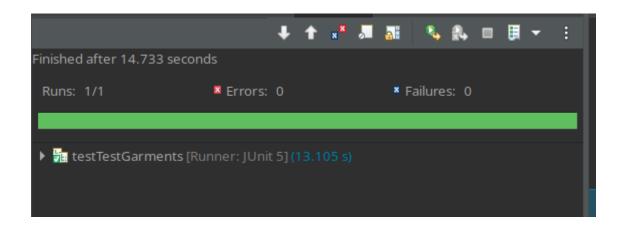
```
//System.out.println(child2.getAttribute("data-testid"));

List<WebElement> children = child2.findElements(By.xpath("./child::*"));

//System.out.println(children.get(3).getAttribute("data-testid"));
actualCurrentState.add(children.get(3));

//System.out.println("--- End of children ---");
}

for( int i = 0;i < 10;i++) {
    faceOptions.get(i).click();
    String s = actualCurrentState.get(i).getAttribute("data-testid");
    String s1 =
webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/div[4]/div/div/div/div/div/div[1]/div[1]/div[2]/div[2]/div[4]")).getAttribute("data-testid");
    assertEquals(s,s1);
    Thread.sleep(500);
}
</pre>
```



3.2. Test general UI Features

Test Name: Display language change

Description: Checks if UI properly responds to language change

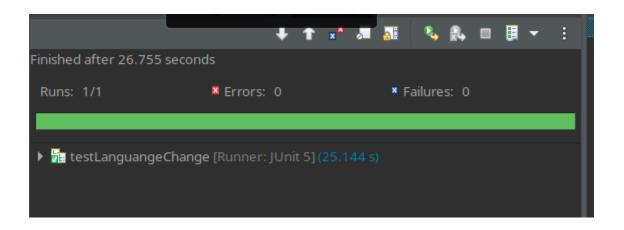
Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached

Test Steps: 1. Navigate to settings 2. Wait till selects loads 3. Extract all available languages 4. Check all languanges so we liste different was	Result: The listened on element will change its language based on select	Actual Result: The actual result is the same as the expected result.	PASS
---	--	--	------

Notes: The test does not check all elements for a change.

```
List<String> visibleTextLanguanges = new ArrayList<String>();
      for( int i = 0;i < allLanguanges.size();i++) {</pre>
            visibleTextLanguanges.add(allLanguanges.get(i).getText());
      }
      for( int i = 0;i < allLanguanges.size();i++) {</pre>
            System.out.println("Testing: " + visibleTextLanguanges.get(i));
            languange = new
Select(webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/div[2]/div/div/div
v[2]/div[1]/div[4]/div[3]/span/select")));
            languange.selectByVisibleText(visibleTextLanguanges.get(i));
            wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("//*[@id=\"AppRouter-main-cont
ent\"]/div/div[2]/div[1]/h2"))
                       );
            Thread.sleep(300);
            String accSettingsText =
webDriver.findElement(By.xpath("//*[@id=\"AppRouter-main-content\"]/div/div[2]/div[1]
/h2")).getText();
            if(visibleTextLanguanges.get(i).equals("Deutsch")) {
                 assertEquals("Kontoeinstellungen", accSettingsText);
            }else if(visibleTextLanguanges.get(i).equals("English (US)")) {
                 assertEquals("Account settings", accSettingsText);
            }else if(visibleTextLanguanges.get(i).equals("Español (ES)")) {
                 assertEquals("Ajustes de cuenta", accSettingsText);
            }else if(visibleTextLanguanges.get(i).equals("Español (MX)")) {
                 assertEquals("Ajustes de la cuenta", accSettingsText);
            }else if(visibleTextLanguanges.get(i).equals("Français")) {
                 assertEquals("Paramètres du compte", accSettingsText);
            }else if(visibleTextLanguanges.get(i).equals("Italiano")) {
                 assertEquals("Impostazioni account", accSettingsText);
            }else if(visibleTextLanguanges.get(i).equals("Português (BR)")) {
                 assertEquals("Configurações da conta", accSettingsText);
            }else if(visibleTextLanguanges.get(i).equals("Português (PT)")) {
                 assertEquals("Definições da conta", accSettingsText);
```

```
} }
```



Test Name: Test opting out of redesign test

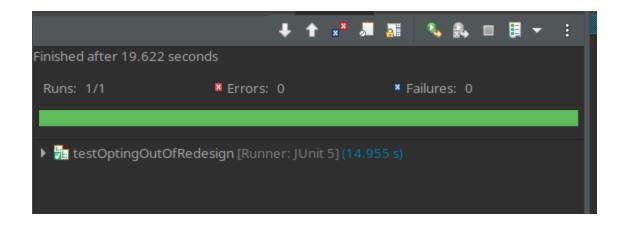
Description: Checks if you can still opt out of the redesign and return to the redesigned version

Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached

Test Steps: 1. Press the opt out button 2. Confirm the opt out 3. Assert if the design changed	Test Data:	Expected Result: The design changes to the older version	Actual Result: The actual result matches the expected result	PASS

Notes: We return to the new design, since all other tests are created with the new design in mind.

```
@Test
   void testOptOut() throws InterruptedException {
      webDriver.get(baseURL);
      WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));
      WebElement buttonSwitch = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[2]/div/div/div[2]/div[1]/div[11]/div[2]/div/button"))
                 );
      buttonSwitch.click();
      // confirm opt out
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[4]/div/div/div/div/button[2]"))
                 ).click();
      // check if design changed
      String msg = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[2]/div[1]/div/
button"))
                 ).getText();
      assertEquals("GET NEW REDDIT", msg);
      Thread.sleep(3000);
   }
```



Test Name: User report flow

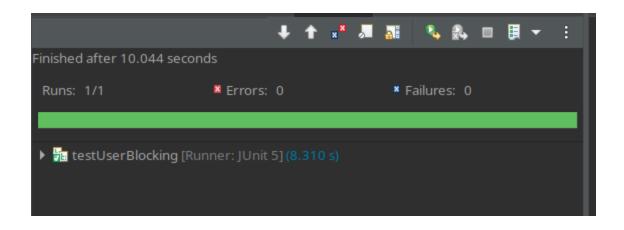
Description: Checks if the user is properly blocked

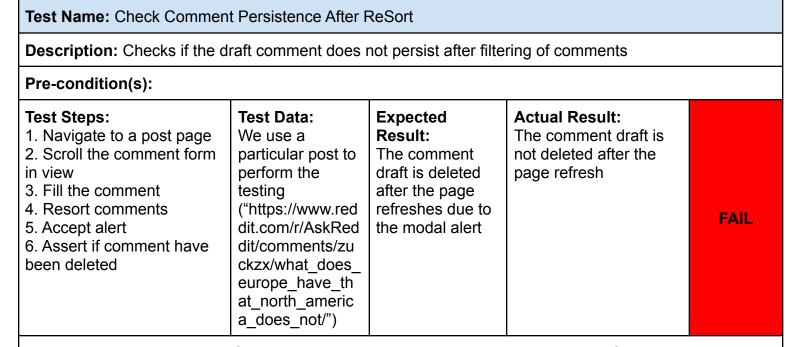
Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached. A new non blocked username

Test Steps: 1. Navigate to the profile page we want to block 2. Block the user 3. Refresh the page	Test Data: We hard code a user to block RightImage9461.	Expected Result: The user is successfully blocked.	Actual Result: The actual result is in line with the expected result.	
4. Assert the user is blocked				PASS

Notes: For every instance the test is run, we need to supply it with a new non blocked username

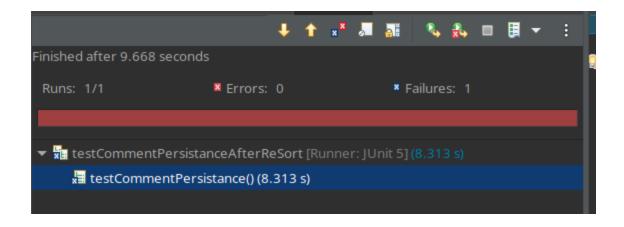
```
@Test
             void testUserBlock() {
                      webDriver.get(baseURL);
                      WebDriverWait wait = new WebDriverWait(webDriver,
Duration.ofSeconds(10));
                      WebElement buttonShowMore = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/di
v[1]/div/div[2]/div[2]/div/div/div[2]/div[3]/div[2]/div/div[1]/di
v/div[7]/div/button"))
                                                             );
                      buttonShowMore.click();
                   //block user
                      WebElement blockButton = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/di
v[1]/div/div[2]/div[2]/div/div/div[2]/div[3]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[
v/div[7]/button[1]"))
                                                             );
                      blockButton.click();
                      webDriver.navigate().refresh();
                      String s = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/di
v[1]/div/div[2]/div[2]/div/div/h3"))
                                                             ).getText();
                       assertTrue(s.contains("is blocked"));
```





Notes: This case deserves a further look into, while it is not a breaking change the flow is not consistent.

```
@Test
    void testCommentPersistance() throws InterruptedException {
      baseURL =
"https://www.reddit.com/r/AskReddit/comments/zuckzx/what does europe have that north
america does not/";
      webDriver.get(baseURL);
      webDriver.manage().window().maximize();
      WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));
      WebElement commentForm = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("//*[@id=\"AppRouter-main-con")
tent\"]/div/div/div[2]/div[3]/div[1]/div[2]/div[3]/div/div/div/div[2]/div/div
/div/div/div/div/div"))
                 );
      JavascriptExecutor jse2 = (JavascriptExecutor) webDriver;
      jse2.executeScript("arguments[0].scrollIntoView", commentForm);
      commentForm.click();
      commentForm.sendKeys("Hello");
      webDriver.findElement(By.id("CommentSort--SortPicker")).click();
      wait.until(
                 ExpectedConditions.visibilityOfElementLocated(By.linkText("Top"))
      ).click();
      webDriver.switchTo().alert().accept();
      String commentFormText =
webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/div[2]/div/div/div/div[
2]/div[3]/div[1]/div[2]/div[3]/div/div/div/div[2]/div/div[1]/div/div/div/div/div
/div/span/span")).getText();
      assertNotEquals(commentFormText, "Hello");
    }
```

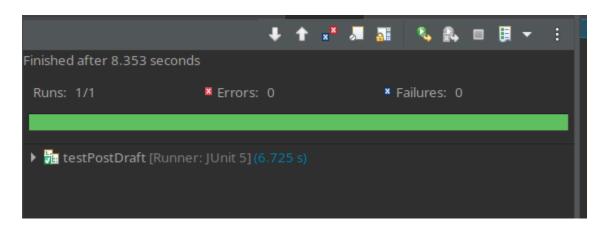


3.3. Posts

Test Name: Test post draft				
Description: Test if post dra	ft persits the draft			
Pre-condition(s): 3.0 test cached	ase is a pre-conditio	n, the chrome drive	r must have account crede	entials
Test Steps: 1. Open post submit page 2. Fill in post 3. Save post as draft 4. Assert if draft is saved	Test Data: We hard code the post title as "Test Title" and post description as "Test Text"	Expected Result: The draft is successfully saved.	Actual Result: The actual result is the same as the expected result.	PASS
Notes:				

```
@Test
    void testPostDraftFunctionality() throws InterruptedException {
      webDriver.get(baseURL);
      WebDriverWait wait = new WebDriverWait(webDriver,
Duration.ofSeconds(10));
      WebElement titleTextArea = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/di
v[1]/div/div[2]/div[2]/div/div/div[2]/div[3]/div[1]/div[2]/div[3]
/div[2]/div[1]/div/textarea"))
                 );
      titleTextArea.sendKeys("Test Title");
      WebElement textTextArea =
webDriver.findElement(By.xpath("//*[@id=\"AppRouter-main-content\"]/d
iv/div/div[2]/div[3]/div[1]/div[2]/div[3]/div[2]/div[2]/div/div/div[3
]/div/div[1]/div/div/div"));
      textTextArea.sendKeys("Test Text");
      WebElement saveDraftButton =
webDriver.findElement(By.xpath("//*[@id=\"AppRouter-main-content\"]/d
iv/div/div[2]/div[3]/div[1]/div[2]/div[3]/div[3]/div[2]/div/div/div[2
]/button"));
      saveDraftButton.click();
      Thread.sleep(400);
      // go to draft list
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/di
v[1]/div/div[2]/div[2]/div/div/div[2]/div[3]/div[1]/div[2]/div[1]
/button"))
                 ).click();
      // check if draft is saved
      WebElement draftTitle = wait.until(
```

```
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/di
v[1]/div/div[2]/div[4]/div/div/div/div[2]/div[1]/div[2]/h2"))
          );
    System.out.println(draftTitle.getText());
    assertEquals(draftTitle.getText(),"EDITING: Test Title");
}
```



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1661	14	41116			1 11 15 1	
1001		aiic			$\nu - \nu$	DOGHIN

Description: Check if posts are created successfully.

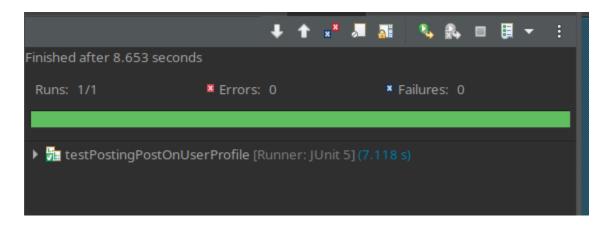
Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached

T 101	T (D)	T_ , .	A (15 II	
Test Steps: 1. Open the submit post page 2. Fill in the post 3. Submit a post 4. Assert if post is created successfully.	Test Data: We hard code the post title as "Test Title" and post description as "Test Text"	Expected Result: The post is posted successfully.	Actual Result: The actual result is the same as the expected result.	PASS

Notes: The test only tests if the post was created by the cached user.

```
@Test
    void testPostPosting() throws InterruptedException {
      webDriver.get(baseURL);
      WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));
      WebElement titleTextArea = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("//*[@id=\"AppRouter-main-cont
ent\"]/div/div/div[2]/div[3]/div[1]/div[2]/div[3]/div[2]/div[1]/div/textarea"))
      titleTextArea.sendKeys("Test Title");
      //
      WebElement textTextArea = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[2]/div/div/div/div[2]/div[3]/div[1]/div[2]/div[3]/div[2]/div[2]/div/div/div/div[3]/di
v/div[1]/div/div/div"))
                 );
      textTextArea.sendKeys("Test Text");
webDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/div[2]/div/div/div/div[2]
]/div[3]/div[1]/div[2]/div[3]/div[2]/div/div/div[1]/button")).click();
      //
      WebElement upt = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2]/
div[2]/div/div/div/div[2]/div[2]/div[1]/div[3]/div[1]/div/div[2]/div/div[1]"))
                 );
      System.out.println(upt.getText());
      //Thread.sleep(10000);
      assertEquals(upt.getText(), "Posted by\n"
```

```
+ "u/Character0k8020\n"
+ "just now");
}
```



3.4. Social links

Test Name: Test adding of soci	al link
---------------------------------------	---------

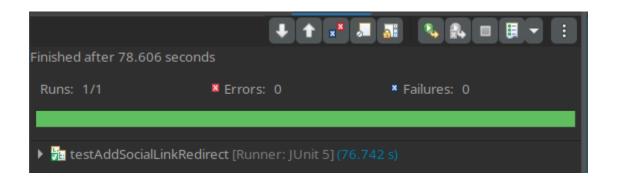
Description: The test should add a social link redirect

Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached

Test Steps:	Test Data:	Expected	Actual Result:	
 Navigate to profile page Choose to add a link Choose reddit as a link Add a link Assert that the link has been aded 	3.0	Result: The social redirect link is added.	The social redirect link is added.	PASS

```
class testAddSocialLinkRedirect {
    private static WebDriver webDriver;
   private static String baseURL;
   @BeforeAll
   static void setUP() {
       System.setProperty("webdriver.chrome.driver",
"/home/musaka/Desktop/Semester 5/svvt/chromedriver");
       ChromeOptions options = new ChromeOptions();
       options.addArguments("--no-sandbox",
                                 "--disable-notifications",
                                 "--disable-extensions");
       String path = "/home/musaka/Desktop/RedditProfile";
       options.addArguments("--user-data-dir="+path);
       options.addArguments("--start-maximized");
       webDriver = new ChromeDriver(options);
       baseURL = "https://www.reddit.com/settings/profile";
   }
   @AfterAll
   static void tearDownAfterClass() throws Exception {
       webDriver.quit();
   }
   @Test
   void testSocialLink() throws InterruptedException {
       webDriver.get(baseURL);
       WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));
       WebElement addSocialLinkDiv = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2
]/div[2]/div/div/div[2]/div[1]/div[3]/div[2]/div/div"))
                    );
       addSocialLinkDiv.click();
       WebElement redditSocialLink = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2
```

```
]/div[4]/div/div/section/div/div[2]"))
                    );
       redditSocialLink.click();
       WebElement socialLinkInput = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2
]/div[4]/div/div/section/div/input"))
                    );
       socialLinkInput.sendKeys("r/Home");
       // /html/body/div[1]/div/div[2]/div[4]/div/div/section/div/div[2]
       Thread.sleep(3000);
       wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2
]/div[4]/div/div/section/header/div/div[3]/button"))
                    ).click();
       webDriver.navigate().refresh();
       WebElement socialLink = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/div/div[2
]/div[2]/div/div/div[2]/div[1]/div[3]/div[2]/div/div[1]"))
                    );
       assertEquals("r/Home", socialLink.getText());
       Thread.sleep(3000);
       }
}
```



3.5. Miscellaneous

3.5.1. Testing of Emoji Send

Test Name: Testing of Emoji Send

Description: The test should send a emoji to a user

Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached. Also a username for the user to chat with.

Test Steps: 1. Navigate to chat page 2. Find the user to chat with 3. Start Chat 4. Send Emoji 5. Assert Emoji is sent	Test Data: 3.0	Expected Result: The emoji is sent	Actual Result: The emoji is sent	PASS

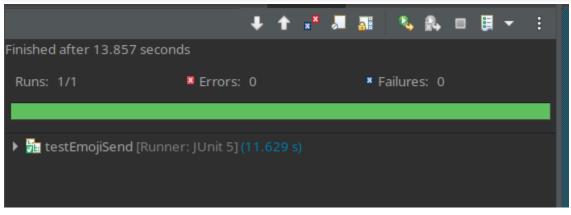
```
@Test
    void testUserBlock() throws InterruptedException {
        webDriver.get(baseURL);
        Thread.sleep(3000);

        WebElement l= webDriver.findElement(By.tagName("body"));
        String p = l.getAttribute("innerHTML");
        int numOfIcons =

this.countOfOccurrences(p,"https://www.redditstatic.com/desktop2x/img/snoom oji/sloth.png");

        WebDriverWait wait = new WebDriverWait(webDriver,
Duration.ofSeconds(10));
```

```
// i must find the user
           wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[1]/div/button"))
                        ).click();
           // send search atttributes
           wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div/div[2]/div[1]/span/input"))
                       ).sendKeys("muhasupa");
           // wait till search loads
           Thread.sleep(1000);
           // seelect user to send
           wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div/div[2]/div[2]/div"))
                       ).click();
           // press start chat
           wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div[2]/div/button[2]"))
                        ).click();
           // press emoji button
           wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div[1]/form/div/div/div/div[2]"))
                        ).click();
           //press sloth emoji
           //
           wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
```



3.5.2 Test Join Subreddit

Test Name: Testing Join Subreddit

Description: The test should test if joining a subreddit works.

Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached.

Test Steps: 1. Navigate to subreddit 2. Join a subreddit	Test Data: 3.0	Expected Result: The user is added to the subreddit	Actual Result: The user is added to the subreddit	
				PASS

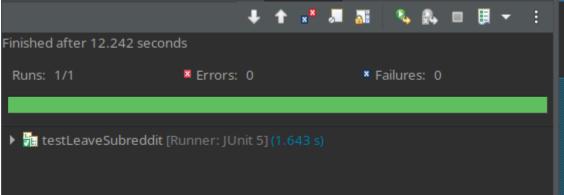


3.5.3. Test Leave Subreddit

Test Name: Testing Leaving Subreddit				
Description: The test should test if leaving a subreddit works.				
Pre-condition(s): 3.0 test case is a pre-condition, the chrome driver must have account credentials cached.				
Test Steps: 3. Navigate to subreddit 4. Leave a subreddit	Test Data: 3.0	Expected Result: The user leaves the subreddit.	Actual Result: The user leaves the subreddit	PASS
Notes:				

```
@Test
    void testLeave() throws InterruptedException {
```

```
WebDriverWait wait = new WebDriverWait(webDriver,
Duration.ofSeconds(10));
       // now i leave
       wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/d
iv/div[2]/div[2]/div/div/div[2]/div[1]/div/div[1]/div/div[2]/div/button
"))
                   ).click();
       String buttonText = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div[1]/d
iv/div[2]/div[2]/div/div/div[2]/div[1]/div/div[1]/div/div[2]/div[1]"))
                   ).getText();
       Thread.sleep(1500);
       assertEquals(buttonText, "Join");
    }
Finished after 12.242 seconds
 Runs: 1/1
                       Errors: 0
                                             ■ Failures: 0
```



3.5.4 Test Login User Flow

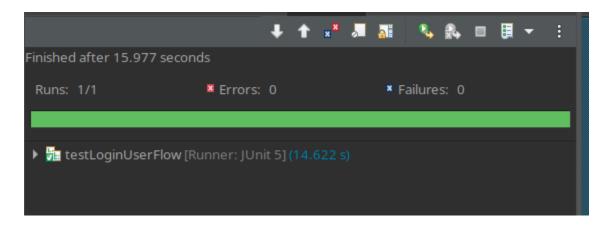
Test Name: Testing Login User Flow

Description: The test should test if user login flow works

Pre-condition(s): The user must not be logged in, The user must have an account. The user must have access to their credentials.

Test Steps: 1. Navigate to login page 2. Enter credentials 3. Log into Reddit	Test Data: Username and password credentials	Expected Result: The user logs into Reddit	Actual Result: The user logs into Reddit	PASS
--	--	---	--	------

```
@Test
    void testUserBlock() throws InterruptedException {
       webDriver.get(baseURL);
       WebDriverWait wait = new WebDriverWait(webDriver,
Duration.ofSeconds(10));
       WebElement u = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/main
/div[1]/div/div[2]/form/fieldset[1]/input"))
                   );
       u.sendKeys("Single_Monitor_9475");
       WebElement p = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/main
/div[1]/div/div[2]/form/fieldset[2]/input"))
                   );
       p.sendKeys("Sc8f&9fxwMfAcSPSuUt!V*5QFsgq");
       wait.until(
```



3.5.5 Test Message Delete

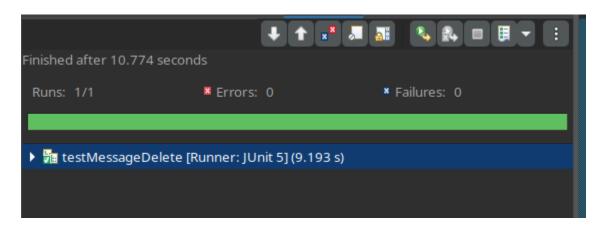
Test Name: Testing Message Deletion

Description: The test should test if message is deleted

Pre-condition(s): 3.0. There must be ONE message sent from the receiving user and no messages sent from the test driver.

```
@Test
    void testMessage() throws InterruptedException {
       webDriver.get(baseURL);
       Thread.sleep(3000);
       WebElement l= webDriver.findElement(By.tagName("body"));
       String p = 1.getAttribute("innerHTML");
       int numOfIcons =
this.countOfOccurrences(p, "https://www.redditstatic.com/desktop2x/img/snoom
oji/sloth.png");
       WebDriverWait wait = new WebDriverWait(webDriver,
Duration.ofSeconds(10));
      // i must find the user
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[1]/div/button"))
                   ).click();
      // send search atttributes
       wait.until(
```

```
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div/div[2]/div[1]/span/input"))
                   ).sendKeys("muhasupa");
       // wait till search loads
       Thread.sleep(1000);
       // seelect user to send
       wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div/div[2]/div[2]/div"))
                   ).click();
       // press start chat
       wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div[2]/div/button[2]"))
                   ).click();
       WebElement input = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/form/div/div/textarea"))
                   );
       input.clear();
       String salt = this.getSaltString();
       input.sendKeys(salt);
       // then i press the send button
       wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/form/div/button"))
                   ).click();
       // press the new message
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div[1]/div[1]/div/span[3]/span"))
                   ).click();
```



3.5.6. Test Message Sending

Test Name: Testing Message Sending				
Description: The test should test if message is sent				
Pre-condition(s): 3.0.				
Test Steps: 1. Navigate to chat page 2. Send a message to user	Test Data: An user to chat with	Expected Result: The message is sent	Actual Result: The message is sent	PASS

```
@Test
   void testUserBlock() throws InterruptedException {
      webDriver.get(baseURL);
      Thread.sleep(3000);
      WebDriverWait wait = new WebDriverWait(webDriver,
Duration.ofSeconds(10));
      // i must find the user
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[1]/div/button"))
                   ).click();
      // send search atttributes
      wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div/div[2]/div[1]/span/input"))
                  ).sendKeys("muhasupa");
      // wait till search loads
      Thread.sleep(1000);
      // seelect user to send
      wait.until(
```

```
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div/div[2]/div[2]/div"))
                   ).click();
       // press start chat
       wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/div/form/div/div[2]/div/button[2]"))
                   ).click();
       // now i send message to user
       WebElement input = wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/form/div/div/textarea"))
                   );
       input.clear();
       String salt = this.getSaltString();
       input.sendKeys(salt);
       // then i press the send button
       wait.until(
ExpectedConditions.visibilityOfElementLocated(By.xpath("/html/body/div/div/
main/div[1]/div[2]/div/form/div/button"))
                   ).click();
       //check if page contains our salt
       String source = webDriver.getPageSource();
       assertTrue(source.contains(salt));
       Thread.sleep(5000);
    }
```

