

# Software Engineering IT314

## **Fake News Faux Real**

# **GUI TESTING:**

- All the buttons are working correctly for every page.
- All pages are compatible with different browsers.
- For any page, the font size and indentation is consistent.
- The text displayed on the page is readable.

## 1. Home Page

- Layout and design of the webpage is good and the content is readable.
- Navigation through the page is easy.

- Navigation menu is working correctly, by clicking on each link the user is directed to to the intended page.
- "Get Started" button, ensuring that it redirects the user to the appropriate page.
- Text under the features is aligned properly and symbols used are in accordance.
- Privacy policy statement in the "Privacy is our top priority" feature is correct and up-to-date.
- Web page is responsive, and displays correct data on various screen sizes and resolutions.
- Test the compatibility of the web page across different browsers and platforms, ensuring that it works correctly on each one.

## 2. Signin/Signup

- The page title is "Sign Up".
- The "Sign Up" tab is active with the inactive "Sign In" tab.
- There is an icon displayed on the page.
- On clicking sign up the signup page is displayed.
- With appropriate placeholders, there are input fields for "Name", "Email", "Password", and "Confirm Password".
- There is a "Sign Up" and a "Back" button.
- By clicking on the back button we are redirected to the previous page.
- An error message is displayed on entering an invalid email address in the "Email" field.
- No error message is displayed on entering a valid email address in the "Email" field.
- For too short or too long passwords in the "Password" field, an error message is displayed.
- For a valid password in the "Password" field, no error message is displayed.
- If the password doesn't match the "Confirm Password" field, an error message is displayed.
- For a password that matches the "Confirm Password" field, no error message is displayed.

### 3. Login

- Login form is displayed on the page.
- It includes two input fields for email and password, respectively.
- Email input field accepts valid email addresses only and if the email address is not valid displays an error message for invalid email addresses.
- Password input field accepts passwords that are between 6 to 25 characters long.

- "Log In" button is present and is clickable as well.
- On clicking the "Log In" button without entering any details or with invalid login details displays appropriate error messages.
- By clicking the "Log In" button with valid login details logs the user in and redirects to the home page.
- The image and icon on the page are displayed correctly.
- The "Back" button is present and by clicking it redirects the user to the previous page.
- The page is responsive to different screen sizes and on different browsers.

#### 4. Result

- The page loads without any errors and all the elements are visible and functional, including the navigation bar, the header, the footer, and the main section containing the result.
- By clicking on the links in the navigation bar redirects to the correct page.
- The elements adjust accordingly by resizing the browser window ensures the responsiveness of the page.
- The functionality of all interactive elements on the page, such as the collapse button in the navigation bar or buttons that present it is working properly.
- The loading speed of the page is good enough.

## 5. News\_detection

- Navbar is displayed correctly and the links are working as expected.
- "Detect News" section is displaying correctly with the correct form fields and buttons.
- Form gives correct responses for different input methods (text and URL) and the newsletter options are displayed or hidden based on the selected input method.
- Form is submitted correctly for both the input methods.
- Cross-browser testing: Check the webpage on different web browsers to ensure that it is displaying correctly and functioning properly on all browsers.

#### 6. About us

- The web page loads without any errors.
- The title of the web page is "Fake News Detection".
- The text in the "About Us" section is displayed correctly.
- The font Family of the text on the page is "Roboto".
- The "Work with heart" feature box, "Reliable services" feature box and "Great support" feature box are correctly displayed, including the text and icon.
- At the bottom of the page, the footer is displayed correctly.
- The copyright notice in the footer is correctly written and the current year is displayed.
- The links to the CSS files and JavaScript files are functioning properly as required.

## **7. FAQ**

- Links on the navigation bar are working properly.
- Accordion is used to display the frequently asked questions (FAQs). It works correctly, and the questions and answers are displayed and hidden as expected.
- Logout button works correctly.
- Title of the page is displayed correctly, and it is easy to read.
- The content of the page, such as the FAQ questions and answers, is displayed correctly and easy to read.

#### 8. Contact us

- Navbar is displayed properly and all the navigation links are working correctly.
- "Contact Us" page is displayed properly and the form is displayed correctly.
- Form has four input fields: name, email, subject, and message and all the input fields have proper labels and placeholders.
- Email field only accepts valid email addresses.
- Clicking the "Submit" button sends the form data to the email specified in the "action" attribute of the form.

## 9. Forgot Password

- "Password Recovery" header is displayed on the page.
- Email input field and "Send" button are present on the page.
- "Send" button triggers a server request to the correct URL.
- Entering a valid email address in the input field and clicking the "Send" button triggers a
  password recovery email to the correct email address.
- Entering an invalid email address in the input field and clicking the "Send" button displays an error message that email is not registered.
- "Back" button redirects the user to the login page.

## **GUI Testing using Selenium:**

## Test1\_basic:

#### Code:

```
element = self.driver.find_element(By.CSS_SELECTOR, ".wrapper")
actions = ActionChains(self.driver)
actions.move_to_element(element).release().perform()
 self.driver.find_element(By.CSS_SELECTOR, "body").click()
self.driver.find_element(By.ID, "login").click()
 self.driver.find_element(By.CSS_SELECTOR, ".first").click()
self.driver.find_element(By.ID, "login").click()
self.driver.find_element(By.ID, "login").send_keys("aayush@123.com")
self.driver.find_element(By.ID, "password").click()
self.driver.find_element(By.ID, "password").send_keys("123456")
self.driver.find_element(By.CSS_SELECTOR, ".fourth").click()
self.driver.find element(By.ID, "input-data").click()
# 16 | type | id-input-data | (CNN) On Veterans Day we recognize and honor the sacrifices our service members and their families make for our country. We owe ou self.driver.find element(By.ID, "input-data").send_keys("(CNN) On Veterans Day we recognize and honor the sacrifices our service members and their families make
self.driver.find element(By.CSS SELECTOR, ".btn").click()
self.driver.find element(By.LINK TEXT, "Logout").click()
self.driver.find_element(By.LINK_TEXT, "Get Started").click()
self.driver.find_element(By.CSS_SELECTOR, ".inactive").click()
self.driver.find_element(By.ID, "login").click()
   Lf.driver.find_element(By.ID, "login").send_keys("aayush@123.com")
```

```
self.driver.find_element(By.ID, "password").click()
self.driver.find_element(By.ID, "password").send_keys("123456")
self.driver.find_element(By.CSS_SELECTOR, ".fourth").click()
element = self.driver.find_element(By.ID, "input-method")
actions = ActionChains(self.driver)
actions.move_to_element(element).click_and_hold().perform()
element = self.driver.find_element(By.ID, "input-method")
actions = ActionChains(self.driver)
actions.move_to_element(element).perform()
element = self.driver.find_element(By.ID, "input-method")
actions = ActionChains(self.driver)
actions.move_to_element(element).release().perform()
 self.driver.find_element(By.ID, "input-method").click()
# 30 | select | id=input-method | label=URL
dropdown = self.driver.find_element(By.ID, "input-method")
dropdown.find_element(By.XPATH, "//option[. = 'URL']").click()
# 31 | mousenoumar | rd=select-investecter | 120, 393,000,00105
element = self.driver.find_element(By.ID, "select-newsletter")
actions = Actionchains(self.driver)
actions.move_to_element(element).click_and_hold().perform()
\label{eq:element} \begin{array}{l} \text{element} = \textit{self}. \\ \text{driver.find\_element(By.ID, "select-newsletter")} \\ \text{actions} = \text{ActionChains(self.driver)} \end{array}
actions.move_to_element(element).perform()
element = self.driver.find_element(By.ID, "select-newsletter")
actions = ActionChains(self.driver)
actions.move_to_element(element).release().perform()
```

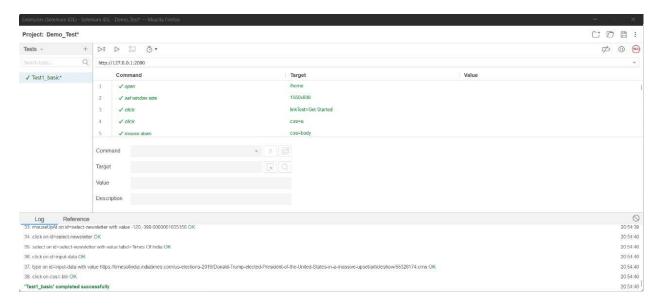
```
self.driver.find_element(By.ID, "select-newsletter").click()

# 35 | select | id=select-newsletter | label=Times Of India
dropdown = self.driver.find_element(By.ID, "select-newsletter")
dropdown.find_element(By.XPATH, "//option[. = 'Times Of India']").click()

# 36 | click | id=input-data |
self.driver.find_element(By.ID, "input-data").click()

# 37 | type | id=input-data | https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-elected-President-of-the-United-Sta
self.driver.find_element(By.ID, "input-data").send_keys("https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-elected-
# 38 | click | css=.btn |
self.driver.find_element(By.CSS_SELECTOR, ".btn").click()
```

#### **Result:**



## Test2\_basic:

#### Code:

```
# Generated by Selenium IDE

import pytest
import time

import jon

from selenium import webdriver

from selenium webdriver.common.by import By

from selenium webdriver.common.action chains import ActionChains

from selenium webdriver.support import expected conditions

from selenium webdriver.common.keys import MedbriverNait

from selenium webdriver.common.desired capabilities import DesiredCapabilities

**Class Testrest2basic():**

**Velass Testrest
```

```
self.driver.find_element(By.ID, "password").click()
self.driver.find_element(By.ID, "password").send_keys("12345678")
self.driver.find_element(By.CSS_SELECTOR, ".fourth").click()
self.driver.find_element(By.ID, "input-data").click()
 self.driver.find_element(By.ID, "input-method").click()
# 13 | click | css=#input-method > option:nth-child(2) |
self.driver.find_element(By.CSS_SELECTOR, "#input-method > option:nth-child(2)").click()
self.driver.find_element(By.ID, "input-data").click()
# 15 | Type | id=input-data| Support Us Should I Get Botox? \nsource Add To The Conversation Using Facebook Comments November 1, 2016 at 6:25 am \nI think that is self.driver.find_element(By.ID, "input-data").send_keys("Support Us Should I Get Botox? \\nsource Add To The Conversation Using Facebook Comments November 1, 201
self.driver.find_element(By.CSS_SELECTOR, ".btn").click()
self.driver.find_element(By.ID, "select-newsletter").click()
# 19 | select | id=select-newsletter | label=Times Of India
dropdown = self.driver.find_element(By.ID, "select-newsletter")
dropdown.find_element(By.XPATH, "//option[. = 'Times Of India']").click()
self.driver.find_element(By.CSS_SELECTOR, "#select-newsletter > option:nth-child(2)").click()
self.driver.find_element(By.ID, "input-data").click()
sety.oriver.find_element(By.ID, input-data ).click()
# 22 | type | id=input-data | https://www.thehindu.com/opinion/editorial/batting-for-borrowers-on-the-reserve-bank-of-indias-recent-draft-circular/article6677412
self.driver.find_element(By.ID, "input-data").send_keys("https://www.thehindu.com/opinion/editorial/batting-for-borrowers-on-the-reserve-bank-of-indias-recent-dr
self.driver.find_element(By.CSS_SELECTOR, ".btn").click()
 self.driver.find_element(By.ID, "input-data").click()
1-23 | type | id=input-data | https://www.thehindu.com/opinion/editorial/batting-for-borrowers-on-the-reserve-bank-of-indias-recent-draft-circular/article667741
self.driver.find_element(By.ID, "input-data").send_keys("https://www.thehindu.com/opinion/editorial/batting-for-borrowers-on-the-reserve-bank-of-indias-recent-draft
self.driver.find_element(By.CSS_SELECTOR, ".btn").click()
# 24 | assertAlert | Please select the correct newsletter |
assert self.driver.switch_to.alert.text == "Please select the correct newsletter"
self.driver.find_element(By.ID, "select-newsletter").click()
# 26 | select | id-select-newsletter | label=The Guardian
dropdown = self_driver, find_element(By.TO, "select-newsletter")
dropdown.find_element(By.XPATH, "//option[. = 'The Guardian']").click()
```

```
## 22 Type | id=input-data | https://www.thehindu.com/opinion/editorial/batting-for-borrowers-on-the-reserve-bank-of-indias-recent-draft circular/article66774120.
## 23 | click | css=_btn |
## 24 | click | css=_btn |
## 24 | assertalert | Please select the correct newsletter |
## 25 | click | dis-select-newsletter |
## 25 | click | dis-select-newsletter |
## 25 | click | dis-select-newsletter |
## 26 | select | dis-select-newsletter |
## 27 | select | dis-select-newsletter |
## 26 | select | dis-select-newsletter |
## 27 | select | dis-select-newsletter |
## 28 | select | dis-select-newsletter |
## 28 | select | dis-select-newsletter |
## 29 | select | dis-select-newsletter |
## 20 | select | dis-select-newsletter |
## 21 | select | dis-select-newsletter |
## 22 | select | dis-select-newsletter |
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## 24 | select | select-newsletter | select-newsletter |
## 25 | select | select-newsletter | select-newsletter |
## 26 | select-newsletter | select-newsletter | select-newsletter |
## 26 | select-newsletter | select-newsletter | select-newsletter | select-newsletter |
## 26 | select-newsletter | select-newsletter | select-newsletter | select-newsletter |
## 26 | select-newsletter | select-news
```

## **Result:**

