WEEKLY PRESENTATION

2024 APRIL 25

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OVERVIEW

This week we've learnt about API using Postman tool, continuing we've done a lot of activities on postman and a presentation, later the week started up with Selenium and we've done a lot of activities and learning Selenium

API'S

- What is an API?
- Types of APIs:
  - Web APIs.
  - RESTful APIs.
- APIs in Practice:
  - Integration.
  - Automation.
  - Third-party Services.
- API Documentation: Clear documentation is important for understanding and using an API effectively.
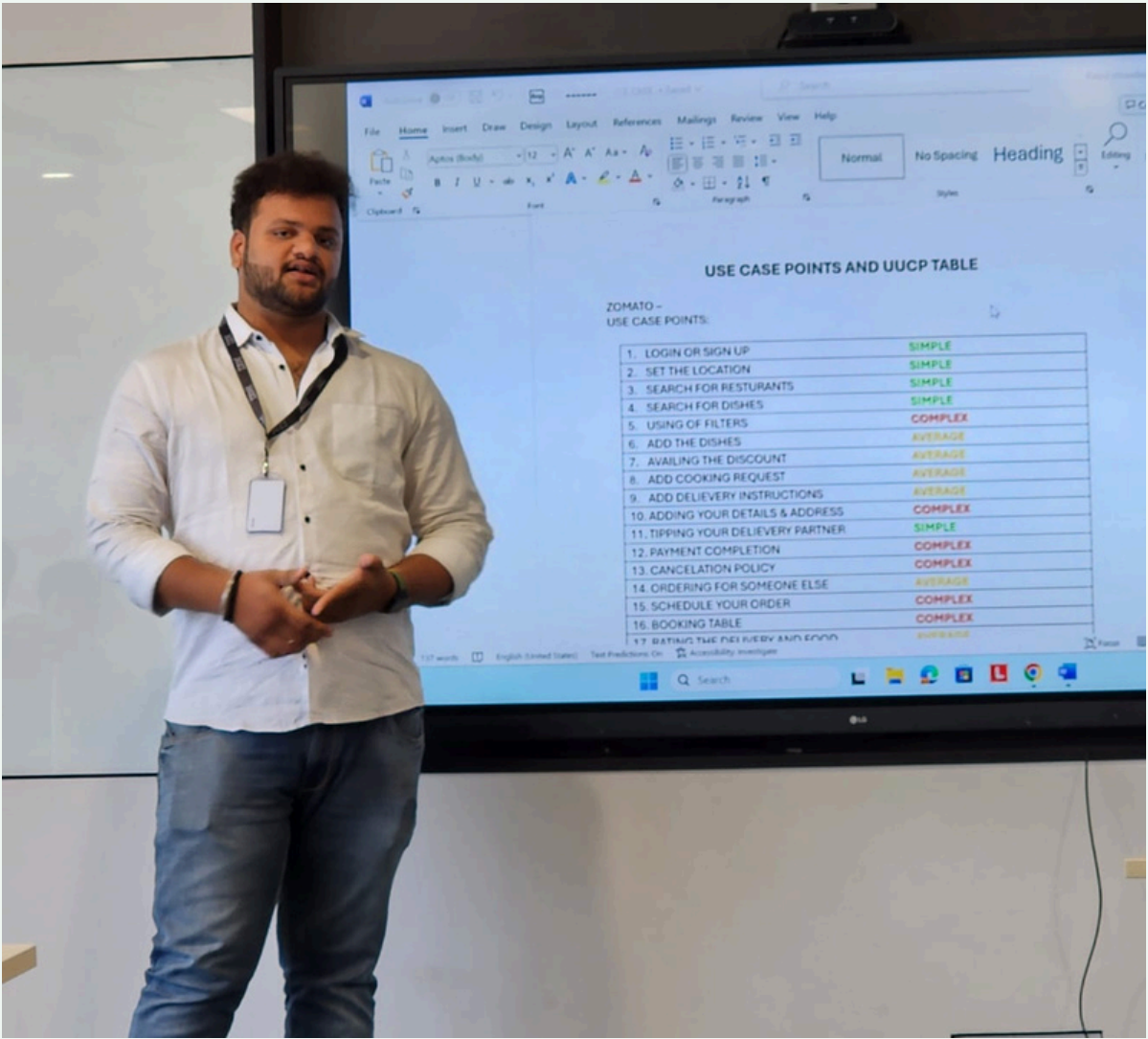
POSTMAN

- What is Postman?.
- Key Features:
  - API Testing.
  - Request Building.
  - Collections.
  - Mock Servers.
  - Documentation.

- Benefits:
  - Efficiency.
  - Collaboration.
  - Debugging.

- A series of continuos activities were mad and documented and are being uploaded to the github on regular bases

- Post this a presentation is made from the whole team divided into groups

TEAM PRESENTATION ON POSTMAN ACTIVITIES

DAY 2

SELENIUM

- Selenium is an open-source automated testing framework used to automate web applications across different browsers and platforms.
- It provides a suite of tools that enables testers to automate web browser interactions and perform automated testing on web applications.

Why Selenium is popular for automated testing:
1. Open-source Nature:
2. Cross-Browser Compatibility:
3. Language Support
4. Large Community Support
5. Integration with Testing Frameworks
6. Robust and Powerful
7. Scalability

- Selenium Webdrivers
- Selenium basic Commands
- Selenium Navigation Commands
- Selenium Locators
- Selenium web element commands
- xPath

SELENIUM

- Selenium Web elements
- Selenium waits
- Handling Dynamic Elements
- Interacting with web elements (clicking buttons, entering text, selecting options, etc.).
- Handling dropdowns, checkboxes, radio buttons, and alerts.
- Activities related to Selenium

```java
driver.get("https://v1.training-support.net/selenium/input-events");
String title= driver.getTitle();
System.out.println(title);
// Create an Actions object
new Actions(driver)
        .keyDown(Keys.SHIFT)
        .sendKeys("p")
        .keyUp(Keys.SHIFT)
        .perform();
new Actions(driver)
        .keyDown(Keys.CONTROL)
        .sendKeys("a")
        .keyUp(Keys.CONTROL)
        .perform();
new Actions(driver)
        .keyDown(Keys.CONTROL)
        .sendKeys("c")
        .keyUp(Keys.CONTROL)
        .perform();
```

```java
wait.until(ExpectedConditions.textToBePresentInElementLocated(By.cssSelector("#ajax-content h3"), text: "I'm late!"));

// Get and print the updated text
WebElement ajaxContent1 = driver.findElement(By.cssSelector("#ajax-content h1"));
WebElement ajaxContent = driver.findElement(By.cssSelector("#ajax-content h3"));
String original = ajaxContent1.getText();
System.out.println(original);
String updatedText = ajaxContent.getText();
System.out.println(updatedText);
```