CSI1007 Software Engineering Principles (Lab) Winter 2024-25 (L13+L14) [VL2024250503895]
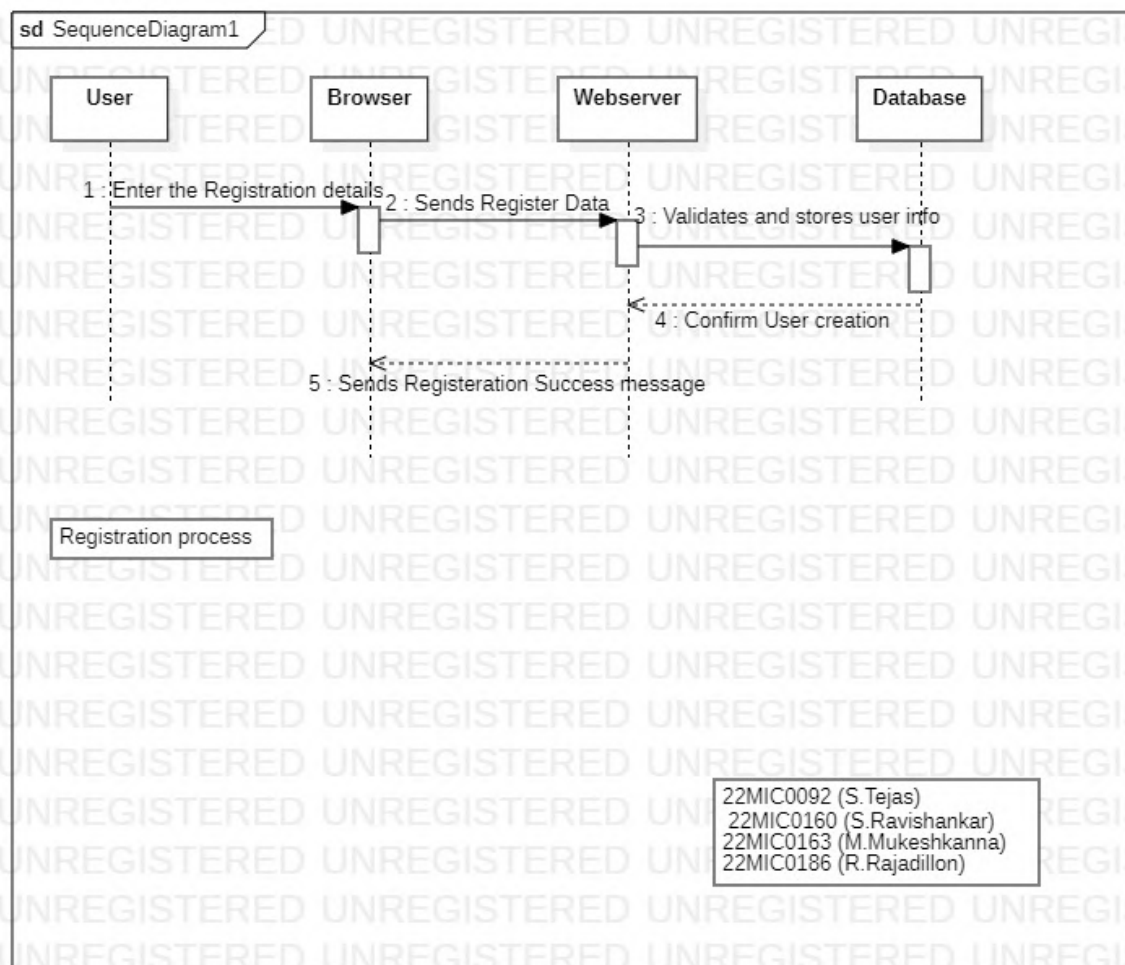
Activity-5

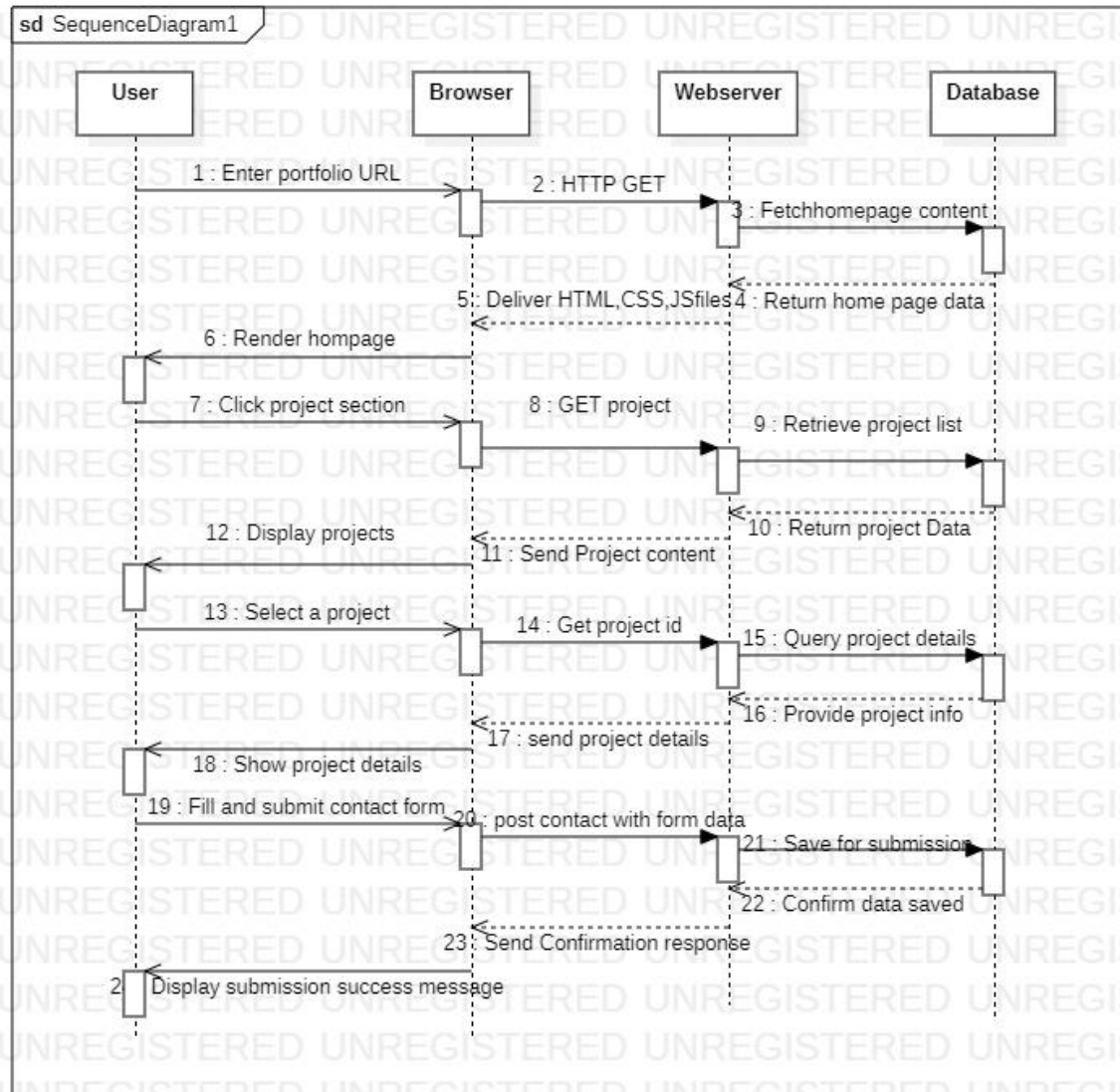**Name: S. Tejas**

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1. **Draw sequence diagrams to visualize the interactions within your project for 2 scenarios.**
   - **Scenarios 1**

- **Scenarios 2**

sd SequenceDiagram1

| User | Browser | Webserver | Database |

1 : Enter portfolio URL
2 : HTTP GET
3 : Fetchhomepage content
4 : Return home page data
5 : Deliver HTML,CSS,JSfiles
6 : Render hompage
7 : Click project section
8 : GET project
9 : Retrieve project list
10 : Return project Data
11 : Send Project content
12 : Display projects
13 : Select a project
14 : Get project id
15 : Query project details
16 : Provide project info
17 : send project details
18 : Show project details
19 : Fill and submit contact form
20 : post contact with form data
21 : Save for submission
22 : Confirm data saved
23 : Send Confirmation response
2 Display submission success message

2. Create comprehensive test cases for 2 key scenarios in your project

Test Case 1: Verify Client Login Functionality

Test Case ID: TC001
Test Scenario: Verify login functionality with valid and invalid credentials.
Test Case Description: Ensure the login system accepts correct credentials and rejects incorrect inputs.

Test Steps:

1. Open the photography website login page.
2. Enter a username.
3. Enter a password.
4. Click the "Login" button.

Test Data:

 Valid Case: Username: `clientuser`, Password: `Client@123`
 Invalid Case: Username: `wronguser`, Password: `wrongpass`

Test Expected Result:

- If valid credentials are entered, the user should be redirected to the Client Dashboard.
- If invalid credentials are entered, an error message "Invalid Username or Password" should appear.

Actual Result:

- **Valid credentials:** Redirected to the Client Dashboard.
- **Invalid credentials:** Received error message "Invalid Username or Password".

Pass/Fail: Pass

Test Case 2: Verify Image Upload in Portfolio Module

Test Case ID: TC002
Test Scenario: Verify image upload functionality for photographers.
Test Case Description: Ensure the photographer can upload images successfully, and unsupported file types are rejected.

Test Steps:

1. Log in as a **Photographer**.
2. Navigate to the **Portfolio Upload Section**.
3. Click the **"Upload Image"** button.
4. Select an image file and click **Upload**.
5. Verify the uploaded image appears in the **Gallery**.

Test Data:

 Valid Case: Image: `high_res_photo.jpg` (JPEG, <5MB)
 Invalid Case: File: `document.pdf` (Non-image format)

Test Expected Result:

- If a valid image is uploaded, it should be visible in the portfolio gallery.
- If an invalid file type is uploaded, an error message "Unsupported file format" should appear.

Actual Result:

- **Valid Image:** Successfully uploaded and displayed in the portfolio.
- **Invalid File:** Received error message "Unsupported file format".

Pass/Fail: Pass