

## **Exercise 9:**

# **Simulate the life cycle stages for UI design using the RAD model and develop a small interactive interface using OpenProj**

### **AIM:**

The aim is to recreate the lifecycle stages of UI design using the RAD model and design a small interactive interface with OpenProj

### **PROCEDURE:**

**Tool Link:** <https://sourceforge.net/projects/openproj/>

### **Step 1: Requirements Planning**

#### **1. Gather Requirements:**

- Identify key features and functionalities needed for your interface. ○

Example: A simple "Login" and "Register" interface with debug logs. **2. Define**

#### **Use Cases:**

- Specify use cases for user login and registration.
- Example: User logs in with valid credentials, user registers with a new account.

### **Output in OpenProj:**

- Create a new project.
- Add tasks: "Gather Requirements" and "Define Use Cases."
- Set durations and dependencies for each task.

### **Step 2: User Design**

#### **1. Sketch Initial Designs:**

- Draw rough sketches of the "Login" and "Register" screens on paper. **2.**

### **Create Digital Wireframes:**

- Use a tool like Figma or Sketch to create digital wireframes.

### **Example Wireframes:**

1. **Login Screen:** Username field, Password field, Login button, Register link. 2.

**Register Screen:** Username field, Email field, Password field, Confirm Password field, Register button.

### **Output in OpenProj:**

- Add tasks: "Sketch Initial Designs" and "Create Digital Wireframes." ●

Allocate time and resources to complete these tasks.

### **Step 3: Rapid Prototyping**

#### **1. Develop Prototypes:**

- Use a tool like Axure RP to convert wireframes into interactive prototypes. 2.

#### **Test Prototypes:**

- Share prototypes with stakeholders for feedback.
- Collect feedback and iterate on the design.

### **Output:**

- Interactive prototypes for "Login" and "Register" screens.

### **Output in OpenProj:**

- Add tasks: "Develop Prototypes" and "Test Prototypes."
- Set dependencies and milestones.

### **Step 4: User Acceptance/Testing**

#### **1. Review Prototype:**

- Conduct user and stakeholder reviews.

## 2. Conduct Usability Testing:

- Perform usability testing and document feedback.

### Output:

- Documented feedback and test results.

### Output in OpenProj:

- Add tasks: "Review Prototype" and "Usability Testing."
- Track progress and resources.

## Step 5: Implementation

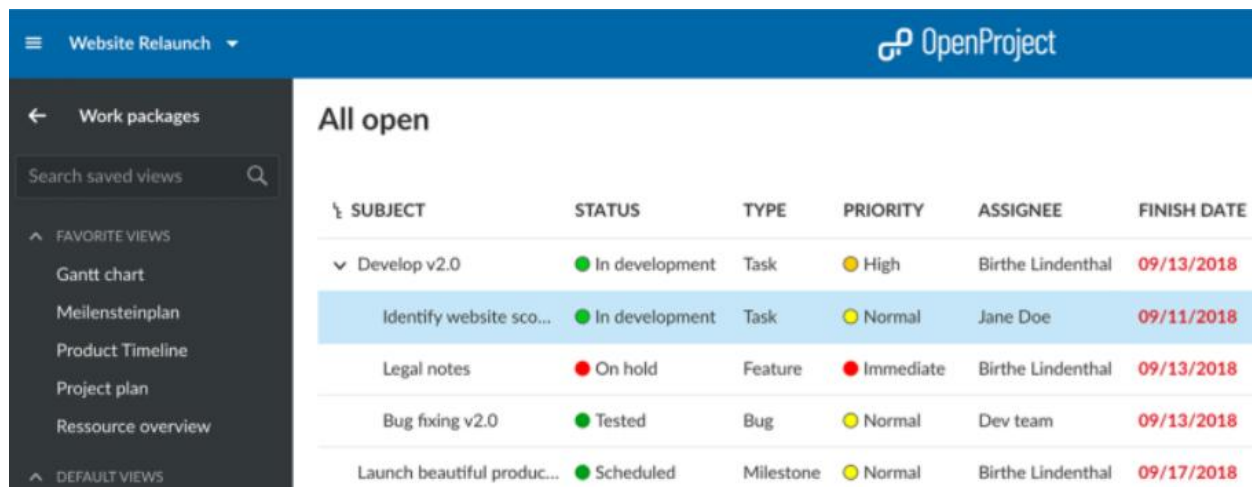
### 1. Develop Functional Interface:

- Implement final designs and functionalities based on feedback. 2.

### Integrate Backend (if required):

- Connect the UI with backend services for tasks like user authentication.

### OUTPUT:



The screenshot displays the OpenProject web application. The top navigation bar is blue with the 'OpenProject' logo on the right and a dropdown menu for 'Website Relaunch' on the left. A sidebar on the left contains a 'Work packages' section with a search bar and a list of 'FAVORITE VIEWS' including 'Gantt chart', 'Meilensteinplan', 'Product Timeline', 'Project plan', and 'Ressource overview'. The main content area is titled 'All open' and contains a table of tasks.

SUBJECT	STATUS	TYPE	PRIORITY	ASSIGNEE	FINISH DATE
Develop v2.0	In development	Task	High	Birthe Lindenthal	09/13/2018
Identify website sco...	In development	Task	Normal	Jane Doe	09/11/2018
Legal notes	On hold	Feature	Immediate	Birthe Lindenthal	09/13/2018
Bug fixing v2.0	Tested	Bug	Normal	Dev team	09/13/2018
Launch beautiful produc...	Scheduled	Milestone	Normal	Birthe Lindenthal	09/17/2018

### RESULT:

The output was verified successfully.