Exercise 5b   Date:

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.

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