

UID

EX NO : 6

RAD Model Lifecycle Simulation for UI Design

AIM:

To simulate the UI design lifecycle using the Rapid Application Development (RAD) model and develop a small interactive shopping interface using Axure RP.

RAD Lifecycle Stages in UI Design:

Phase 1: Requirements Planning

1. Identify Key Features

Navigation Elements:

Home, Product Categories, Product Details, Cart, Checkout, Order Confirmation, Order History.

User Actions:

Browsing, Searching, Adding Items to Cart, Checkout, Tracking Orders.

2. Requirements Document

User Story Example:

"As a user, I want to browse products by category, so I can easily find items I'm interested in."

Use Case:

UC1: User browses categories → selects item → views details → adds to cart.

UC2: User views cart → proceeds to checkout → confirms order.

Phase 2: User Design

1. Install and Launch Axure RP

Visit <https://www.axure.com> → Download & Install.

2. Create a New Project

File → New → Name: "Shopping App Interface"

3. Wireframes Design

Create the following wireframes:

Home Page

Product Categories

Product Listings

Product Details

Cart

Checkout

Order Confirmation

Order History

4. Add Interactions

Example: On the "Add to Cart" button → Interaction: OnClick → Show Cart Panel

5. Create Masters

Header Master: Logo, Navigation Menu, Search Bar

Footer Master: Contact Info, Copyright

6. Annotations

Example:

"This button allows the user to add a selected item to the shopping cart. It updates the cart count dynamically."

Phase 3: Construction

1. Develop Interactive Prototypes

Use dynamic panels for carousels and modal windows.

Use onClick and onMouseEnter interactions for UI feedback.

2. Test and Iterate

Use the Preview button in Axure RP.

Collect stakeholder feedback.

Iterate based on findings.

Phase 4: Cutover

1. Finalize and Export

Final prototype is exported as:

HTML package for browser-based testing.

Shared via Axure Cloud for stakeholder review.

2. User Training and Support

Provide demo sessions and user manuals.

Document use cases and common workflows.

