

## Activity 4.1 - Designing And Developing The User Interface

### Activity 4.1: Designing And Developing The User Interface

This activity focuses on developing the user-facing components of the SmartSDLC application. A well-designed user interface (UI) not only enhances user engagement but also provides smooth navigation, responsiveness, and clarity.

Technologies used:

- HTML5, CSS3 for structure and style
- JavaScript for dynamic behavior
- Optionally React, Bootstrap or Tailwind for faster UI development

Key Principles:

- Mobile-first Design
- Accessibility (WCAG Guidelines)
- Consistent Theming
- User-friendly Navigation

Tasks performed:

1. Created wireframes for the UI layout using Figma
2. Developed responsive HTML templates
3. Styled components with consistent branding
4. Added interactivity using JavaScript (or React)
5. Tested UI on multiple screen sizes

Code Snippet:

```
```html
```

```
<!DOCTYPE html>

<html>

<head><title>SmartSDLC</title></head>

<body>

  <h1>Welcome to SmartSDLC</h1>

  <button onclick="alert('Clicked!')">Click Me</button>

</body>

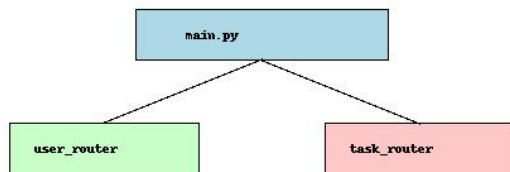
</html>

...

```

Outcome:

A fully responsive, clean, and usable front-end interface ready to interact with backend APIs.



## Code Example

```
```html
<!-- Sample Frontend UI Code -->

<html>

  <head><title>SmartSDLC</title></head>

  <body>

    <h1>Welcome to SmartSDLC</h1>

    <button>Click</button>

  </body>

</html>
```
```

## Summary

This activity focuses on building an efficient and interactive user experience, linking the UI with backend APIs for a functional SmartSDLC application.