

Activity 1.2 - Define The Architecture Of The Application

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Objective:

Define the software architecture for the SmartSDLC application.

Description:

The architecture of the SmartSDLC application defines the structure, components, and their interactions.

A good architecture ensures scalability, reliability, and maintainability.

Architecture Type:

We are using a layered architecture approach, separating concerns into different layers such as:

- Presentation Layer (Front-end interface)
- Business Logic Layer (Application logic)
- Data Access Layer (Database interactions)

Technology Stack:

- Frontend: HTML, CSS, JavaScript (or frameworks like React/Angular)
- Backend: Node.js / Python Flask / Java Spring Boot
- Database: MySQL / MongoDB
- Version Control: Git & GitHub

System Architecture Diagram:

Client -> API Gateway -> Application Server -> Database

Tools Used:

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- Visual Studio Code (IDE)
- Git and GitHub (Version Control)
- Lucidchart / Draw.io (for diagramming)
- Postman (API testing)

Roles Involved:

- KR
- JR
- JP
- PA

Summary:

The architecture of SmartSDLC is built using a modular, layered approach to ensure flexibility and efficiency.

