

EXP5

SYSTEM DESIGN AND ARCHITECTURE

Architecture Overview: The Online Clipboard follows a three-tier architecture: Presentation Layer, Business Logic Layer, and Data Access Layer.

1. Presentation Layer: HTML/Thymeleaf frontend integrated with Spring Boot controllers. 2. Business Layer: Handles services, validation, and business logic. 3. Data Layer: Uses JPA and Hibernate ORM for database management.

Flow Diagram: User → Controller → Service → Repository → Database

Outcome: A clear modular design ensures scalability, maintainability, and reusability across future extensions.