

# Web Development Project Structure Overview

- Frontend Architecture
  - User Interface Components
  - Responsive Design Frameworks and CSS Preprocessors
  - JavaScript Frameworks and Libraries for Interactive Components
- Backend Infrastructure and Services
  1. Database Design and Management
    - Relational Database Systems including PostgreSQL and MySQL
    - NoSQL Solutions such as MongoDB and Redis for Caching
    - Data Integrity, Backup Strategies, and Disaster Recovery Planning
  2. API Development and REST Endpoints
    - Authentication and Authorization Mechanisms
    - Rate Limiting and Request Validation Protocols
    - Error Handling and Response Formatting Standards
  3. Server Configuration and Deployment
    - Container Orchestration with Docker and Kubernetes
    - Continuous Integration and Continuous Deployment Pipelines
    - Performance Monitoring and Log Aggregation Tools
- Quality Assurance and Testing
  - Unit Testing Frameworks and Code Coverage Analysis
  - Integration Testing Strategies for Multi-Component Systems
  - End-to-End Testing with Selenium and Cypress