

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