

Project Plan for Real Estate Database Management System

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1. Lifecycle Model

- Model Selection: Iterative Development Model.
- Justification: Allows continuous feedback, refining features like property listings, transactions, and user interactions.

2. Tools Identification

- Planning Tools: Jira (task tracking), Microsoft Project (Gantt charts).
- Design Tools: Lucidchart (ER diagrams), Figma (UI/UX).
- Version Control: GitHub (collaboration).
- Development Tools: React (Frontend), Node.js or PHP (Backend), MySQL (Database).
- Testing Tools: Postman (API testing), Selenium (UI testing).
- Bug Tracking: Jira or Bugzilla.

3. Deliverables

- Reuse: Pre-existing user authentication modules, secure SQL libraries.
- Build: Custom property listing, transaction management, wishlist, and feedback features.
- Justification: Reusing components speeds development; custom modules meet real estate-specific needs.

4. Work Breakdown Structure (WBS)

- Requirement Analysis: Define features like property listing and user management.
- System Design: Develop UI/UX and database schema.
- Backend Development: API integration, MySQL setup.
- Frontend Development: Build property browsing and search interfaces.

- Testing & QA: Test for functionality and security.
- Deployment: Cloud deployment and final checks.

5. Effort Estimation

- Total Estimated Effort: 18 person-months.
 - Requirement Analysis: 2 months.
 - System Design: 3 months.
 - Backend & Frontend Development: 9 months.
 - Testing & QA: 2 months.
 - Deployment: 2 months.

6. Coding Details

- Backend: Node.js or PHP for user roles, property management, and transactions.
- Frontend: React or Angular for property browsing and user dashboards.
- Database: MySQL for property, user, and transaction data.
- Security: TLS encryption, password hashing, and role-based access control.

7. Risk Management

- Risk: Data breaches, unauthorized access.
- Mitigation: AES encryption, regular audits.

8. Quality Management

- Objective: 99.9% uptime, accurate property listings and transactions.
- Assurance: Rigorous testing of core features.
- Acceptance Criteria: Efficient property search, transaction flow, and feedback.

9. Project Monitoring & Control

- Tools: Jira for task tracking.
- Metrics: Number of successful property listings, system uptime.

10. Gantt Chart

