

## Project Timeline & Division of Duties

### **Week 1 (Nov 2 – Nov 8) — Setup & Foundations**

- **Isaac (Backend Setup):**
  - Install and configure PostgreSQL on EC2.
  - Create initial database schema with views we listed.
- **Ethan (Frontend Skeleton):**
  - Build landing page HTML/CSS structure with navigation.
  - Create placeholder forms (login, registration, business listing).
- **Quade (Authentication & Server):**
  - Set up server environment.
  - Implement starter authentication routes (login/register boilerplate).
- **Cole (Project Manager / Documentation):**
  - Finalize requirements and user stories.
  - Document schema, folder structure, and coding standards.

**Deliverable:** Database connected, site skeleton in place, basic login/register forms visible.

### **Week 2 (Nov 9 – Nov 15) — Core Features**

- **Isaac:**
  - Implement CRUD operations for businesses and services in backend.
  - Connect database queries to API endpoints.
- **Ethan:**
  - Build Service Directory page with filtering UI.
  - Add category images to landing page.
- **Quade:**
  - Integrate authentication with database (hashed passwords, sessions/tokens).
  - Connect frontend forms to backend routes.
- **Cole:**
  - Begin QA testing of CRUD and login flows.
  - Document API endpoints and usage for the team.

**Deliverable:** Users can register/login, create businesses, and see them listed.

### **Week 3 (Nov 16 – Nov 22) — User Experience & Admin Tools**

- **Isaac:**
  - Build Admin Panel backend (CRUD for users and listings).
  - Add review table integration with businesses.

- **Ethan:**
  - Create review submission forms and display ratings on business profiles.
  - Polish business dashboard UI for owners.
- **Quade:**
  - Implement role-based permissions (customer vs business owner vs admin).
  - Secure endpoints to prevent unauthorized edits.
- **Cole:**
  - Test permissions and review workflows.
  - Document known issues and fixes.

**Deliverable:** Full CRUD across all roles, reviews working, admin panel functional.

#### **Week 4 (Nov 23 – Nov 27) — Finalization & Testing**

- **Isaac:**
  - Optimize database queries and finalize admin tools.
- **Ethan:**
  - Apply final styling, responsive design, and polish across all pages.
- **Quade:**
  - Ensure deployment readiness (server configs, environment variables).
  - Run final security checks.
- **Cole:**
  - Conduct full end-to-end testing of all features (registration, CRUD, reviews, admin).
  - Log bugs and verify fixes before the final project is submitted.

**Deliverable:** Fully tested, polished project site ready for submission.

# Views

## 1. Login View

### Purpose:

Provide users with secure access to their accounts.

### Features:

- Email/username and password input fields
- "Forgot Password" link for credential recovery
- "Remember Me" option for returning users
- Redirect link to the Sign-Up page
- Basic error handling for invalid credentials

## 2. Sign-Up View

### Purpose:

Allow new users to register and create an account on the platform.

### Features:

- Input fields for name, email, password, and confirmation
- Password strength validation
- Terms of Service and Privacy Policy acceptance checkbox
- Link to the Login page for existing users

## 3. Landing Page View

### Purpose:

Serve as the main introduction to the platform and highlight its value.

### Features:

- Hero section with tagline and call-to-action (e.g., “Join Now” or “Explore Businesses”)
- Brief overview of services or benefits
- Navigation bar with links to Businesses, Services, and Account pages
- Footer with contact info and social media links

## 4. Businesses View

**Purpose:**

Display a directory or listing of businesses available on the platform.

**Features:**

- Search and filter functionality (by category, rating, or location)
- Card/grid layout showing business name, logo, and brief description
- Links to individual company profiles

## 5. Services View

**Purpose:**

Showcase available services offered across different businesses or categories.

**Features:**

- Filter by business, category, or price
- Summary cards for each service with a short description and pricing
- Option to view service details or contact the provider

## 6. Individual Company View

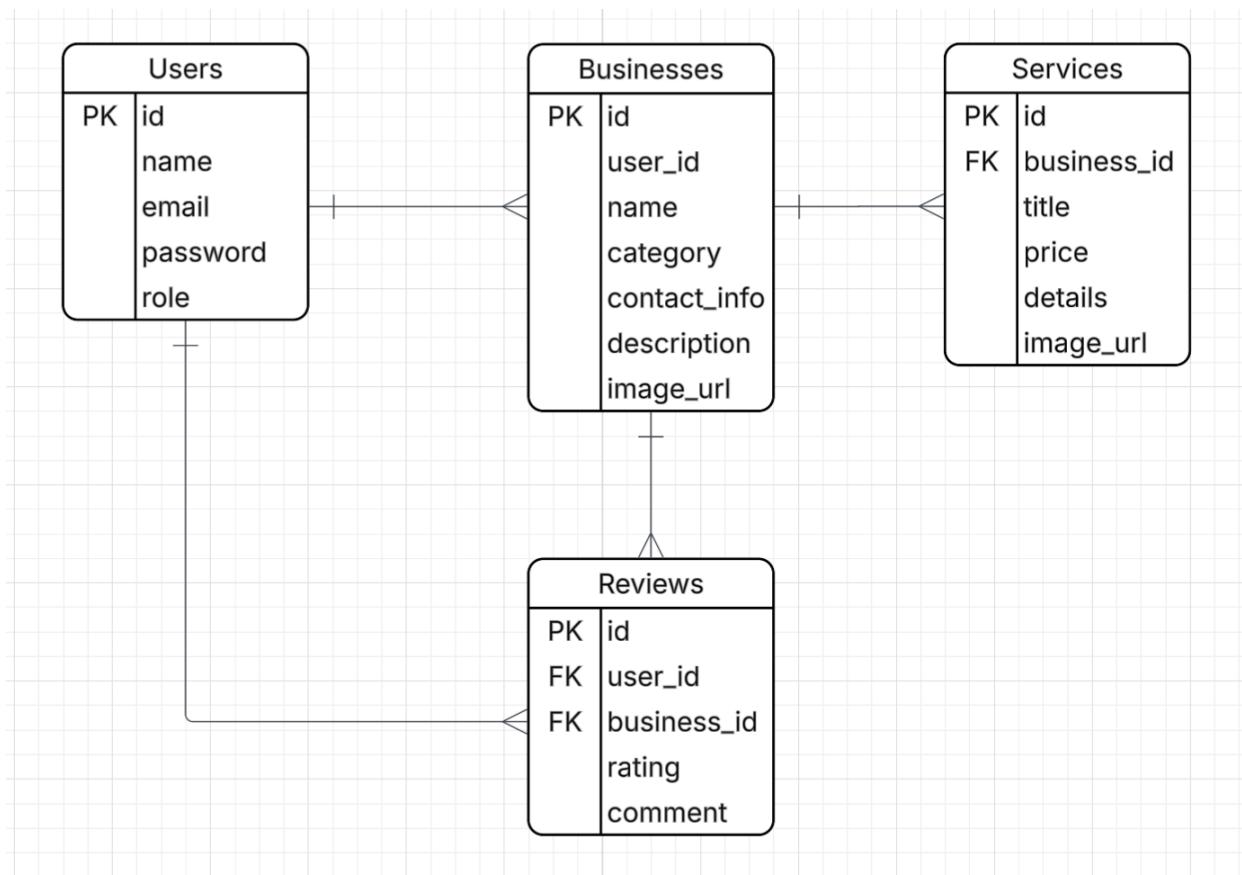
**Purpose:**

Provide a detailed page for each company listed on the site.

**Features:**

- Company overview (name, description, contact info, hours, and location)
- List of services offered
- Reviews and ratings section
- Option to favorite, follow, or contact the business

## ERD



**USERS → BUSINESSES:** A user can own many businesses (1:M), each business belongs to one user.

**BUSINESSES → SERVICES:** A business can offer many services (1:M), each service belongs to one business.

**USERS → REVIEWS:** A user can write many reviews (1:M), each review belongs to one user.

**BUSINESSES → REVIEWS:** A business can have many reviews (1:M), each review belongs to one business.

