# Product Requirements Document (PRD)

## 1. Project Overview

**Project Name:** Paddle Court Booking System

**Prepared By:** Chandni bai and Huma M.Yousaf

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**Purpose:** To build an online platform that allows users to easily search, book, and pay for paddle courts. The system will have two admin roles: Super Admin and Supervisor Admin, who will manage the courts, bookings, and users.

## 2. Objectives

- Provide a user-friendly interface for court booking.
- Enable users to search by city, price, availability, or luxury status.
- Integrate online payment for secure transactions.
- Allow admins to manage courts and users efficiently.
- Provide clear receipts and booking confirmations.

## 3. Features

### 3.1 User Features

- User Sign Up & Login (email/password & Google)
- Court Search by:
  - Nearby
  - Low to High Price
  - Luxury Courts
- View available time slots.
- Secure online payments.
- Receive booking confirmations and view booking history.

### 3.2 Admin Features

| Feature | Super Admin | Supervisor Admin |
|---|---|---|
| Add/Edit/Delete Courts | ✓ | ✓ |
| Manage Users | ✓ | ✗ |
| Manage Bookings | ✓ | ✓ |
| Add Supervisors | ✓ | ✗ |
| View Reports | ✓ | ✓ |

# 4. Technology Stack

| Layer | Technology |
| --- | --- |
| Frontend | ReactJS |
| Backend | Node.js, Express |
| Database | MongoDB |
| Payment | Stripe / PayPal |
| Hosting | Vercel / Netlify |

# 5. Prototype & User Flow

Below is the low-fidelity prototype of the platform. Each block in the prototype corresponds to a user action or screen:

## 5.1 Screens in Prototype

Booking page

logo                Home  Booking  Blog  Sign in  Sign up

Username

Email

Phone no.

Court Name

Payment method

Book now

Footer

Payment from card

Card number

Card number          Card number

Card holder name

Pay Now

booking Receipt

Logo                Receipt

Username        Email

Court name

Date            Time
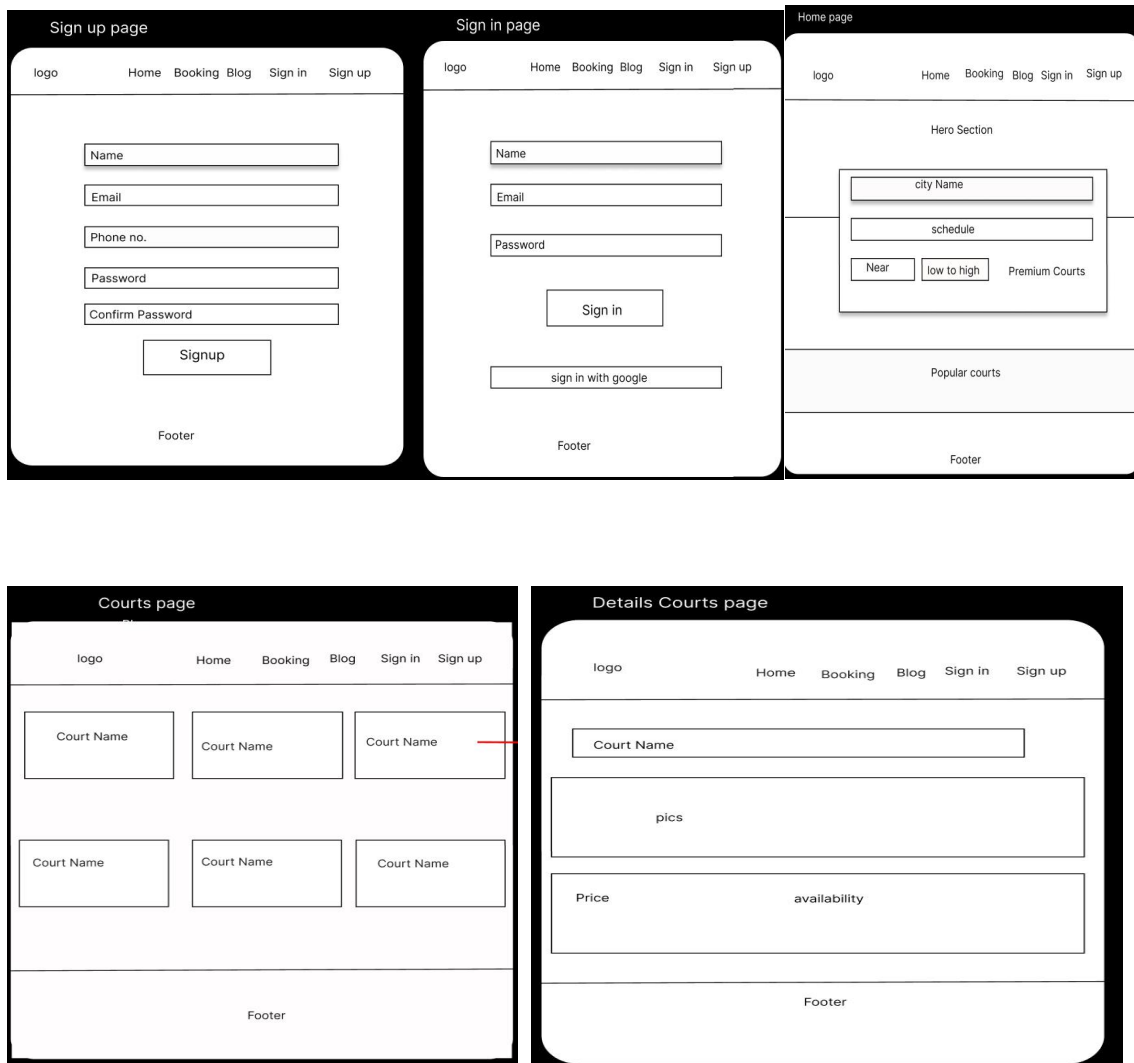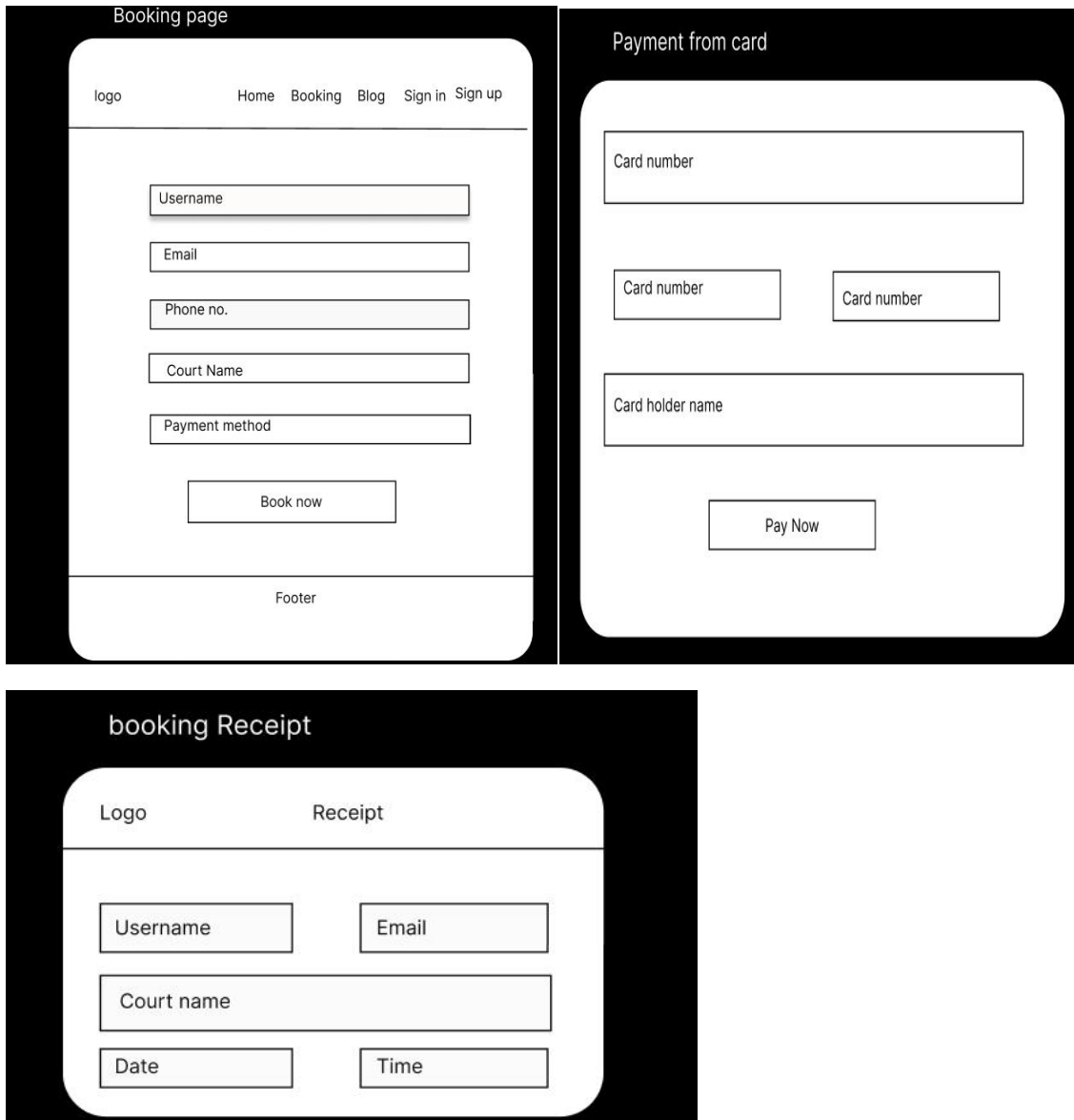
1. **Sign Up Page:**

   o   Name, Email, Phone Number, Password, Confirm Password.
   o   Alternate sign-in option with Google.

2. **Sign In Page:**

   o   Email, Password → Login securely.

3. **Home/Search Page:**

   o   Search by City.
   o   Click Schedule to view available time slots.
   o   Filter by Nearby, Low to High Price, or Luxury Courts.

4. **Court List Page:**

   o Displays list of courts matching filters.

5. **Court Detail Page:**

   o Court Name, Image, Description, Availability, Price.

6. **Booking Page:**

   o User Details, Court Details, Payment Method.
   o Confirm Booking button.
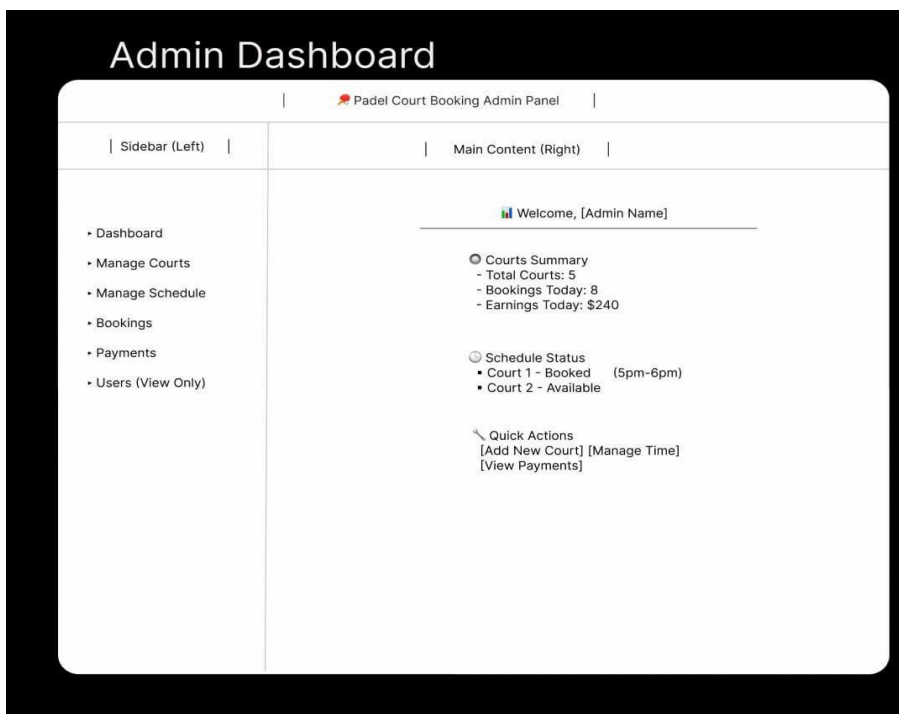
7. **Payment Page:**

   o Secure online payment with card/wallet.

8. **Booking Confirmation Page:**

   o Booking ID, Court Details, Date, Time, Payment Info.
   o Printable receipt.

## 5.2 Admin Dashboard (Head Admin)

The following screens represent the **Head Admin Dashboard** design and features:

# Dashboard

| Sidebar (Left) | Main Content (Right) |
|---|---|
| - Dashboard <br><br> - Manage Courts <br> ‣ Manage Schedule <br> - Bookings <br><br> - Payments <br> - Users (View) | **📊 Dashboard Overview** <br><br> • Total Courts: 5 <br> • Total Bookings Today: 8 <br> • Total Earnings Today: $240 |

| User | Court | time | status |
|---|---|---|---|
| John | 1 | 5 pm | booked |

📈 Earnings Trend (Mini Chart Placeholder)

# Manage Courts

| Sidebar | Main Content |
|---|---|
| - Dashboard <br> - Manage Courts <br> ‣ Manage Schedule <br> - Bookings <br> - Payments <br> - Users (View) | **🏟 Manage Courts** |

| Name | Type | Status | Actions |
|---|---|---|---|
| 1 | A | Indoor Open | [Edit] |

➕ [Add New Court] Button
➕ [Delete Court] Button
➕ [Update Court] Button

# All Booking

| Sidebar | Main Content |
|---|---|

## Sidebar

- Dashboard
- Manage Courts
‣ Manage Schedule
- Bookings
- Payments
- Users (View)

## Main Content

📖 All Bookings

| Booking ID | User | Court | Time | Status |
|---|---|---|---|---|
| BK-001 | Alex | 1 | 6pm | Booked |
| BK-002 | Sara | 2 | 7pm | Cancel |

🔍 [Filter by Date] [Filter by Court]

# Manage Schedule

| Sidebar | Main Content |
|---|---|

## Sidebar

- Dashboard
- Manage Courts
‣ Manage Schedule
- Bookings
- Payments
- Users (View)

## Main Content

📝 Manage Schedule

Court Selection Dropdown: [Court 1 ▼]

Schedule Grid (Hourly Time Slots)

| 9am | 10am | 11am |
|---|---|---|
| Booked | Avail | Booked |

⏱ [Add Booking] [Edit Time] [Clear Slot]

# Payment Overview

| Sidebar | Main Content |
|---|---|

**Sidebar**

- ‣ Dashboard
- ‣ Manage Courts
- ‣ Manage Schedule
- ‣ Bookings
- ‣ Payments
- ‣ Users (View Only)

**Main Content**

💰 Payments Overview

| Booking id | Court Name | Actual Payment | Commission | Net Received |
|---|---|---|---|---|
| BK-001 | PM-101 | $100 | $50 | $50 |
| BK-002 | PM-102 | $50 | $10 | $50 |

[View Transaction Logs] [Export CSV]

# User

| Sidebar | Main Content |
|---|---|

**Sidebar**

- Dashboard
- Manage Courts
- ‣ Manage Schedule
- Bookings
- Payments
- Users (View)

**Main Content**

👥 Users (View Only)

| User Name | Email | Total Bookings | Role |
|---|---|---|---|
| Alex | a@email.com | 12 | User |
| Sara | s@email.com | 3 | User |

🚫 No edit or delete actions shown (View Only)

1. **Dashboard Overview:**

   o Total Courts
   o Total Bookings Today
   o Total Earnings Today
   o Upcoming Bookings List

2. **Manage Courts:**

   o List of courts with edit options.
   o Add new court functionality.

3. **Payments Overview:**

   o List of transactions.
   o Export transaction logs (CSV).

4. **Manage Bookings:**

   o View and filter bookings by date/court.
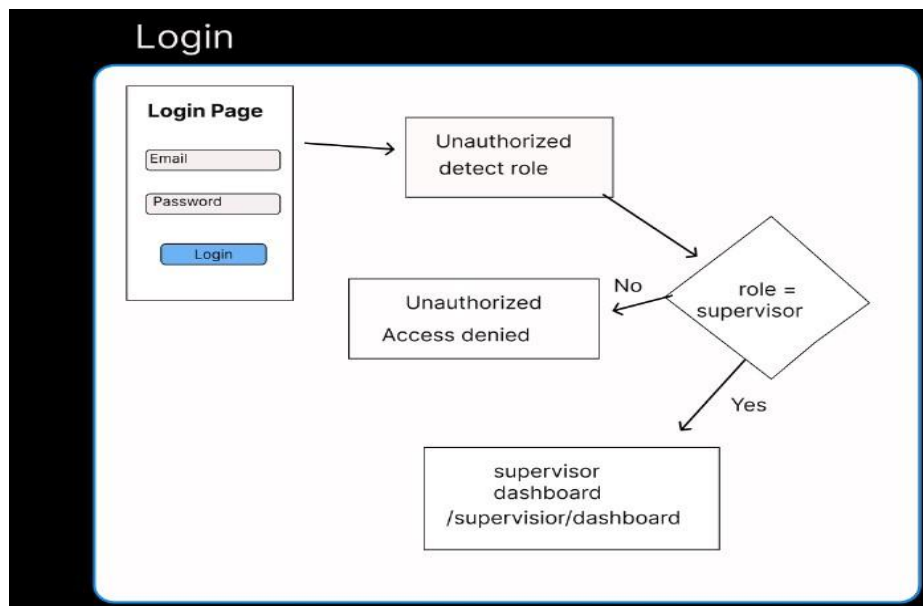
5. **Manage Schedules:**

   o Select court → See time slots → Mark as booked/available.

6. **Users (View Only):**

   o View user details including name, email, bookings.
   o No delete/edit actions shown for Supervisors.

## 5.3 Supervisor Admin Dashboard

# Dashboard

| 📌 Padel Court Booking Admin Panel | |
|---|---|
| Sidebar (Left) | Main Content (Right) |

**📊 Welcome, [Admin Name]**

- Dashboard
- Manage Courts
- Schedule Management

- Courts Managed: 3
- Bookings Today: 2
- Earnings Today: $240

# Manage Court

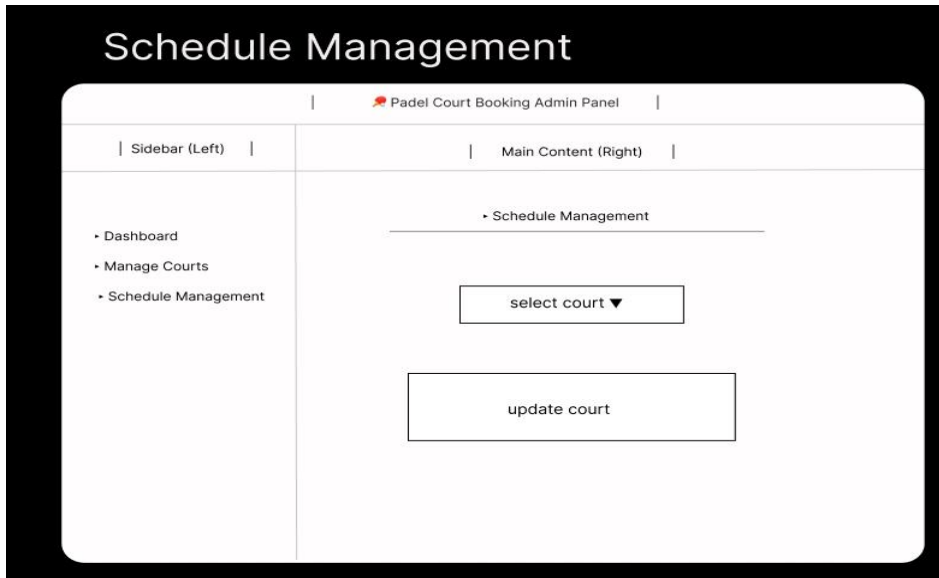| logo | |
|---|---|

- Dashboard
- Manage Courts
- Schedule Management

Manage Courts

| Court name | User Name | Date | Time Slot | Status | Payment |
|---|---|---|---|---|---|
| Court A | alex | 3/7/25 | 6pm | booked | 5000 |
| Court B | dia | 9/7/25 | 8am | booked | 3000 |
| Court C | - | - | - | - | |

The **Supervisor Admin Dashboard** includes the following features:

1. **Login & Role Authentication:**

   o   Supervisor login verifies role before dashboard access.

2. **Dashboard Overview:**

   o   Welcome Message
   o   Total Managed Courts
   o   Total Bookings Today
   o   Earnings Today

3. **Manage Courts:**

   o   Table displaying: Court Name, User Name, Booking Date, Time Slot, Status (booked/available), Payment Info.

4. **Schedule Management:**

   o   Court Selection Dropdown ( $\vee$ )
   o   View and update time slot availability.

5. **Unauthorized Access Handling:**

   o   Users attempting to access without Supervisor role are denied with "Unauthorized Access" message.

## 6. Database Schema Overview

- **Users Collection:**

   o   userID, name, email, password, role (user/superadmin/supervisor)

- **Courts Collection:**
  - courtID, name, location, pricePerHour, type (luxury/standard), availability
- **Bookings Collection:**
  - bookingID, userID, courtID, date, timeSlot, paymentStatus, receiptDetails

## 7. Roles & Responsibilities

| Role | Responsibilities |
| --- | --- |
| **Super Admin** | Full platform access, manage courts, bookings, supervisors, analytics reports. |
| **Supervisor Admin** | Manage assigned courts, bookings, schedules, and monitor availability. |

## 8. Project Milestones

| Phase | Duration |
| --- | --- |
| Requirement Analysis | 1 week |
| Frontend | 3 weeks |
| Backend | 4 weeks |
| Testing | 2 weeks |
| Deployment | 1 week |