



# UI UX for EV Charging Mobile App : ChargeEV EV Ecosystem

**Subtitle:** Making the EV charging experience simple and stress-free.

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# Project Overview

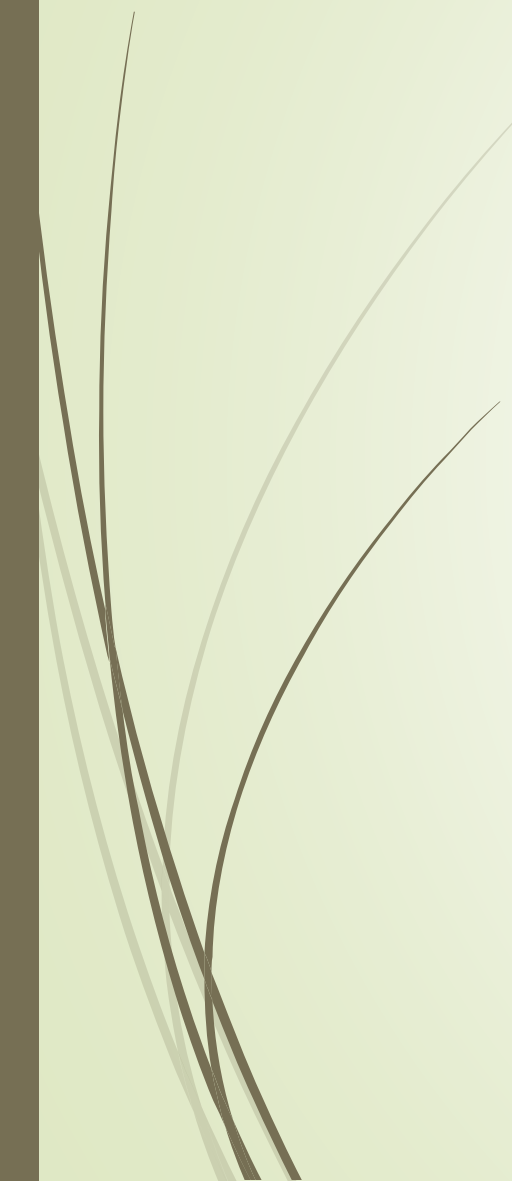
**Application Name:** ChargeEV

**Primary Purpose:** A mobile application designed to help Indian EV owners discover, book, and monitor charging sessions seamlessly.

**Key Features:** Map availability, advanced slot booking, and detailed energy analytics.



# User Research & Assumptions

- **Range Anxiety:** Indian drivers often worry about reaching a station and finding it non-functional or the queue being too long.
  - **Information Gap:** Users struggle to identify which chargers are fast-charging (DC) versus standard ones (Level 2).
  - **Safety Concerns:** High priority on finding stations in well-lit, monitored areas with amenities like washrooms and cafes.
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# Define

- **Problem Statement:** "EV owners in India need a reliable, real-time platform to find functional chargers and book slots in advance to avoid long waiting times and ensure trip continuity".
- **User :** Focus on city commuters and long-distance highway travelers who require fast, predictable charging.
- **Design Goals:** Simplicity, high visual hierarchy for driving safety, and price transparency.



# Ideate

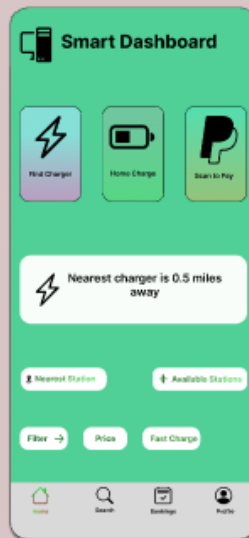
- **Core Concepts Explored:**
- **Map:** Color-coded pins for instant recognition.
- **Smart Dashboard:** A home screen that prioritizes the user's current battery status and the nearest charging hub.
- **Gamified Sustainability:** Tracking CO2 saved to provide positive reinforcement for eco-friendly driving.



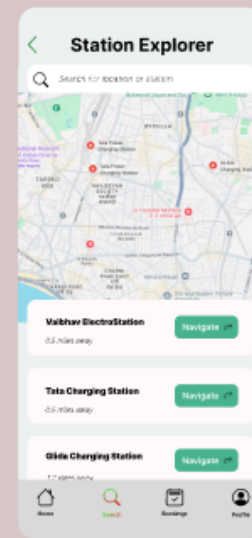
# Prototype

- **Page 1: Smart Dashboard** (Home): At-a-glance view of vehicle battery and quick-access buttons for "Find Charger" and "Scan to Pay".
- **Page 2: Station Explorer** (Map): Integrated map with distance filters and charger-type.
- **Page 3: Station** (Details): Detailed view including ₹/kWh pricing, user ratings, and station amenities.
- **Page 5: Live Charge Analytics**: Progress ring UI showing real-time kWh delivery.
- **Page 6: User Profile & Impact**: Central hub for managing vehicle details, payment history, and "Eco-Impact" metrics.

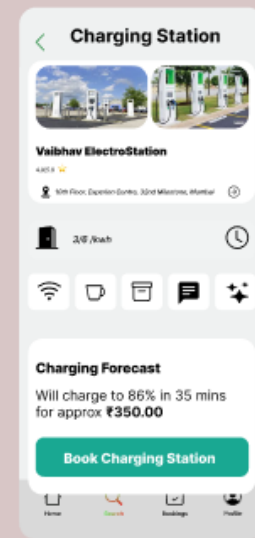
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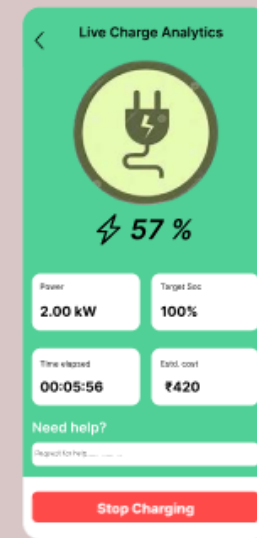
iPhone 14 & 15 Pro ...



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# Test

- **What would be tested:**

- **Usability:** Is the station search easy to understand and quick to use?

- **Clarity:** Is the booking flow clear, and are the buttons easy to tap?

- **Future Improvements:**

- **Real-time Availability:** Integrating live hardware pings to show if a plug is currently in use.

- **Expanded Payments:** Adding more localized payment options (UPI, Wallets).

- **Smart Notifications:** Alerting the user when their charge hits 80% or when a reserved slot is about to start.





Thank You