

Project Design Phase-I - Solution Fit Template

Define CS, fit into CC	<div>1. CUSTOMER SEGMENT(S)<div>CS</div><ul style="list-style-type: none"><li>Electric Vehicle (EV) owners (2-wheelers, 3-wheelers, cars)</li><li>Fleet operators (ride-hailing, delivery, logistics)</li><li>EV buyers evaluating range performance</li><li>Charging infrastructure planners</li><li>Automotive engineers &amp; data analysts</li></ul></div>	<div>6. CUSTOMER CONSTRAINTS<div>CC</div><ul style="list-style-type: none"><li>Limited technical knowledge of battery behavior</li><li>Inaccurate or static range estimates.</li><li>Lack of real-time data visualization</li><li>Poor integration with driving conditions</li><li>Data overload without clear insights</li></ul></div>	<div>5. AVAILABLE SOLUTIONS<div>AS</div><ul style="list-style-type: none"><li>Basic dashboard range estimators in EVs</li><li>Mobile apps showing battery percentage only</li><li>Static manufacturer-claimed range values</li><li>Simple navigation apps with charging points</li></ul></div>	Explore AS, differentiate
	<div>2. JOBS-TO-BE-DONE / PROBLEMS<div>JP</div><ul style="list-style-type: none"><li>Understand real-time battery charge and remaining range</li><li>Predict how driving behavior, terrain, and weather affect range</li><li>Reduce "range anxiety" during trips</li><li>Plan charging stops efficiently</li><li>Compare expected vs actual vehicle performance</li></ul></div>	<div>9. PROBLEM ROOT CAUSE<div>RC</div><ul style="list-style-type: none"><li>Range calculations based on ideal conditions</li><li>No visualization of energy consumption patterns</li><li>Lack of predictive analytics</li><li>Poor user understanding of battery dynamics</li><li>Fragmented data sources</li></ul></div>	<div>7. BEHAVIOUR<div>BE</div><ul style="list-style-type: none"><li>Frequently checking battery percentage</li><li>Over-charging due to fear of running out</li><li>Avoiding long trips</li><li>Driving conservatively to save charge</li><li>Relying on external apps for reassurance</li></ul></div>	
Focus on J&P, tap into BE, understand RC		Focus on J&P, tap into BE, understand RC		

### 3. TRIGGERS

- Low battery warning
- Planning a long or unfamiliar trip
- Unexpected drop in remaining range
- Searching for nearby charging stations
- Comparing EV efficiency across routes or vehicles

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### 4. EMOTIONS: BEFORE / AFTER

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#### Before

- Anxiety about reaching destination
- Uncertainty and lack of trust in range estimates
- Frustration due to inaccurate predictions

#### After

- Confidence in trip planning
- Reduced stress while driving
- Trust in EV performance and data insights

### 10. YOUR SOLUTION

SL

Interactive visual dashboard showing:

- Battery charge vs distance
- Energy consumption trends
- Predicted remaining range

Real-time data integration (speed, terrain, weather)

- Route-based range forecasting
- Charging station visualization and recommendations
- User-friendly graphs, alerts, and insights

### 8. CHANNELS of BEHAVIOUR

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- In-vehicle infotainment system
- Mobile application (Android / iOS)
- Web dashboard for analytics
- Alerts & notifications
- Navigation and maps integration