

Project Title: Visualization Tool for Electric Vehicle Charge and Range Analysis		Project Design Phase-I - Solution Fit Template		Team ID: LTVIP2026TMIDS91295	
Define CS, fit into CC	<div>1. CUSTOMER SEGMENT(S)<div>CS</div></div> <div>EV owners, EV buyers, researchers, transport planners, sustainability analysts, students analyzing electric vehicle</div>	<div>6. CUSTOMER CONSTRAINTS<div>CC</div></div> <div>Lack of technical skills, difficulty interpreting raw datasets, slow or cluttered dashboards, absence of centralized EV visualization tools</div>	<div>5. AVAILABLE SOLUTIONS<div>AS</div></div> <div>Static reports, government EV websites, spreadsheets, basic charts without interaction, limited EV analytics platforms</div>	Explore AS, differentiate	
Focus on J&P, tap into BE, understand RC	<div>2. JOBS-TO-BE-DONE / PROBLEMS<div>J&P</div></div> <div>Need to analyze EV charging stations and vehicle range efficiently. Users struggle to compare charging availability, regional EV infrastructure, and battery range performance from scattered datasets.</div>	<div>9. PROBLEM ROOT CAUSE<div>RC</div></div> <div>EV data exists in multiple formats and platforms, limited visualization tools that combine charging stations and range analysis in one interactive system</div>	<div>7. BEHAVIOUR<div>BE</div></div> <div>Users search online for EV charging info, explore dashboards, apply filters, compare regions, analyze range trends, and share insights</div>	Focus on J&P, tap into BE, understand RC	

<div>3. TRIGGERS</div> <div>TR</div> <div>Rising EV adoption, need for clean energy insights, government EV policies, academic research projects, interest in smart mobility analytics</div>	<div>10. YOUR SOLUTION</div> <div>SL</div> <div>A Flask-based interactive visualization tool integrating EV datasets with maps, line charts, stacked bars, and bubble charts to analyze charging infrastructure and vehicle range in a single dashboard</div>	<div>8. CHANNELS of BEHAVIOUR</div> <div>CH</div> <div>Flask web application, Tableau embedded dashboard, portfolio website, academic presentations</div>
<div>4. EMOTIONS: BEFORE / AFTER</div> <div>EM</div> <div>Before: Confused, overwhelmed by raw EV data. After: Confident, informed, and able to make data-driven decisions using visual dashboards</div>		