

# Project Design Phase-I

## Problem – Solution Fit Template

Date	19 September 2022
Team ID	PNT2022TMID00425
Project Name	Car Resale Value Prediction
Maximum Marks	2 Marks

Define CS, fit into	<b>1. CUSTOMER SEGMENT(S)</b> <span style="float: right;">CS</span> Who is your customer?  <div style="text-align: center;">Used car sellers</div>	<b>6. CUSTOMER</b> <span style="float: right;">CC</span> What constraints prevent your customers from taking an action or limit their choices of solutions? <i>(e.g., spending power, budget, no cash, network connection, available devices.)</i>  <ul style="list-style-type: none"> <li>To determine the worthiness of the car by their own within few minutes</li> <li>A loss function is to be optimized by spending Money for dealers, brokers to buy or sell a car.</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <span style="float: right;">AS</span> Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? <i>(e.g., pen and paper is an alternative to digital notetaking)</i>  <ul style="list-style-type: none"> <li>In the past User cannot find the value of used car buy their own without prior knowledge about cars.</li> <li>A person who don't know much about the car can also make predictions for used cars easily.</li> </ul>	Explore AS.
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span style="float: right;">J&amp;P</span> Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.  To build supervised machine learning Model using regression algorithms for forecasting the value of a vehicle based on multiple attributes such as <ul style="list-style-type: none"> <li>Condition of Engine</li> <li>Year of Registration</li> <li>Kilometers</li> <li>Number of Owner</li> </ul>	<b>9. PROBLEM ROOT CAUSE</b> <span style="float: right;">RC</span> What is the real reason that this problem exists? What is the back story behind the need to do this job? <i>(e.g., customers have to do it because of the change in regulations.)</i>  <ul style="list-style-type: none"> <li>The price predicted by the dealers or brokers for used car is not trustful</li> <li>Users can predict the correct valuation of the car remotely without human intervention like car dealers.</li> <li>User can eliminate the valuation predicted by the dealer</li> </ul>	<b>7. BEHAVIOUR</b> <span style="float: right;">BE</span> What does your customer do to address the problem and get the job done? <i>(e.g., directly related: find the right solar panel installer; calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace))</i>  <ul style="list-style-type: none"> <li>The History of Your car's condition and documents produced by them will be Suspicious.</li> <li>The model is to be built would give the nearest value of the vehicle by eliminating anonymous value predicted by using humans.</li> </ul>	
Identify strong TR & EM	<b>3. TRIGGERS</b> <span style="float: right;">TR</span> What triggers customers to act? <i>(e.g., seeing their neighbour installing solar panels, reading about a more efficient solution in the news.)</i>  Users can predict the correct valuation of the car by their own like Olx cars, cars24 and other car resale value prediction websites by using model, year, owner, etc..	<b>10. YOUR SOLUTION</b> <span style="float: right;">SL</span> If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.  <ul style="list-style-type: none"> <li>The main aim of this project is to predict the price of used cars using the Machine Learning (ML) algorithms and collection data's about different cars.</li> </ul>	Extract online & offline CH of BE	
	<b>4. EMOTIONS: BEFORE / AFTER</b> <span style="float: right;">EM</span> How do customers feel when they face a problem or a job and afterwards? <i>(e.g., lost, insecure &gt; confident, in control - use it in your communication strategy &amp; design)</i>  Before: <ul style="list-style-type: none"> <li>User will be in fear about the biased value predicted by the humans based on the condition of the car.</li> </ul> After: <ul style="list-style-type: none"> <li>User can determine the worthiness of the car by their own without human intervention.</li> </ul>	<b>8. CHANNELS of BEHAVIOUR</b> <span style="float: right;">CH</span> <b>8.1 ONLINE</b> What kind of actions do customers take online? Extract online channels from #7  <b>8.2 OFFLINE</b> What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.  <ul style="list-style-type: none"> <li>Customer should predict the worth of the car by using different parameters given by ..</li> </ul>		