

## Project Design Phase - 1

### Problem Solution Fit

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|---------------|--|
| Date          | 29.09.2022   |
| Team ID       | <b>PNT2022TMID17180</b>  |
| Project Name  | Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies |
| Maximum Marks | 4 Marks  |

**Problem-Solution fit canvas 2.0**
Purpose / Vision

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|---|--|---|
| <div style="display: flex; justify-content: space-between;"> <span style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">Define CS, fit into</span> <div> <p><b>1. CUSTOMER SEGMENT(S)</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">CS</span></p> <ul style="list-style-type: none"> <li>➤ Commercial working people traveling from one point to another.</li> <li>➤ Basically belonging to 18+ year's old.</li> <li>➤ Person who's vehicle experienced from accident or damaged in the vehicle.</li> <li>➤ Customer with the valid insurance policy to claim.</li> </ul> </div> </div>  | <div style="display: flex; justify-content: space-between;"> <span style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">Explore AS, differentiate</span> <div> <p><b>6. CUSTOMER CONSTRAINTS</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">CC</span></p> <ul style="list-style-type: none"> <li>➤ The most common constraints faced by the customer is network connection because of the internet availability</li> </ul> </div> </div>                             | <div style="display: flex; justify-content: space-between;"> <div> <p><b>5. AVAILABLE SOLUTIONS</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">AS</span></p> <ul style="list-style-type: none"> <li>➤ Approaching third person for the cost estimation.</li> <li>➤ Cost estimation done by manual calculation.</li> <li>➤ Using slow processing algorithm to detect the damage.</li> </ul> <p>Pros :</p> <ul style="list-style-type: none"> <li>➤ The estimated value stays with in the customer and bank agent.</li> </ul> <p>Cons :</p> <ul style="list-style-type: none"> <li>➤ Estimated cost varies frequently.</li> <li>➤ The time taken for estimation is very high leading to lots of losses and mental issues.</li> </ul> </div> </div> |
| <div style="display: flex; justify-content: space-between;"> <span style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">Focus on JAP, tap into BE, understand RC</span> <div> <p><b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">JAP</span></p> <ul style="list-style-type: none"> <li>➤ One of the major problems faced by the customers or the insurance companies are not having idea about the cost of repair for the damage.</li> <li>➤ Insurance companies are failing to provide right amount for the car damage and the customers not able to claim for the damage</li> </ul> </div> </div> | <div style="display: flex; justify-content: space-between;"> <div> <p><b>9. PROBLEM ROOT CAUSE</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">RC</span></p> <ul style="list-style-type: none"> <li>➤ Deviation or variation from the companies calculated cost and the actual cost</li> <li>➤ Rapid development in the AI field paved way too many advanced methodologies of cost estimation.</li> <li>➤ Customer have to do it the cost of the change in regulations.</li> </ul> </div> </div> | <div style="display: flex; justify-content: space-between;"> <span style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">Focus on JAP, tap into BE, understand RC</span> <div> <p><b>7. BEHAVIOUR</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">BE</span></p> <ul style="list-style-type: none"> <li>➤ The customer has to upload the images of their car after the accident.</li> <li>➤ The application will instantly evaluate the damage and displace the claim amount to the customer.</li> </ul> </div> </div>   |
| <div style="display: flex; justify-content: space-between;"> <span style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">Identify strong TR &amp;</span> <div> <p><b>3. TRIGGERS</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">TR</span></p> <ul style="list-style-type: none"> <li>➤ Reading about the more solutions in the news and various websites.</li> <li>➤ Development of new technologies.</li> </ul> </div> </div>   | <div style="display: flex; justify-content: space-between;"> <div> <p><b>10. YOUR SOLUTION</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">SL</span></p> <ul style="list-style-type: none"> <li>➤ Accurately the estimate the damage percentage.</li> <li>➤ Predict the region of damage with respect to the vehicle.</li> <li>➤ Eliminating human error while estimation.</li> <li>➤ Use of fast processing algorithm for functionality</li> </ul> </div> </div>                                | <div style="display: flex; justify-content: space-between;"> <span style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">Extract online &amp; offline CH of BE</span> <div> <p><b>1. CHANNELS of BEHAVIOUR</b> <span style="float: right; background-color: #f08080; padding: 2px 5px; font-weight: bold;">CH</span></p> <p>1.1. ONLINE</p> <p>Customer interact with the webpage through internet.</p> <hr/> <p>1.2. OFFLINE</p> <p>Customer cannot access this webpage without internet.</p> </div> </div>  |