

## Project Initialization and Planning Phase

|               |  |
|---------------|--|
| Date          | 15 March 2024  |
| Team ID       | SWTID1720439521  |
| Project Name  | Covidvision: Advanced Covid-19 Detection From Lung X-Rays With Deep Learning |
| Maximum Marks | 3 Marks  |

### Define Problem Statements (Customer Problem Statement Template):

Medical professionals and patients face significant challenges in the timely and accurate detection of Covid-19, leading to delayed treatment and increased transmission rates. Covidvision aims to address these issues by leveraging advanced deep learning techniques to analyze lung X-rays, providing rapid and precise Covid-19 detection. This innovative solution seeks to enhance diagnostic accuracy, reduce the burden on healthcare systems, and ultimately improve patient outcomes during the pandemic.

|                            |  |   |
|----------------------------|--|---|
| <b>I am</b>                | Describe customer with 3-4 key characteristics - who are they?                                 | Describe the customer and their attributes here                             |
| <b>I'm trying to</b>       | List their outcome or "job" they want - what are they trying to achieve?                       | List the thing they are trying to achieve here                              |
| <b>but</b>                 | Describe what problems or barriers stand in the way - what bothers them most?                  | Describe the problems or barriers that get in the way here                  |
| <b>because</b>             | Enter the "root cause" of why the problems or barriers exist - what needs to be solved?        | Describe the reason the problems or barriers exist                          |
| <b>which makes me feel</b> | Describe the emotions from the customer's point of view - how does it impact them emotionally? | Describe the emotions the result from experiencing the problems or barriers |

Reference: <https://miro.com/templates/customer-problem-statement/>

### Example:

|               |   |                                       |  |                            |
|---------------|---|---------------------------------------|--|----------------------------|
| <b>I am</b>   | <b>I'm trying to</b>                    | <b>But</b>                            | <b>Because</b>                             | <b>Which makes me feel</b> |
| Mother of two | ensure my family's safety from Covid-19 | my child has symptoms that concern me | I want to prevent any severe health issues | anxious and worried        |

| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Because | Which makes me feel |
|------------------------|-----------------|---------------|-----|---------|---------------------|
|------------------------|-----------------|---------------|-----|---------|---------------------|

|      |                  |   |  |  |                          |
|------|------------------|---|--|--|--------------------------|
| PS-1 | elderly person   | understand my own Covid-19 diagnosis                | it's difficult to get clear information from doctors | I have underlying health conditions        | frustrated and scared    |
| PS-2 | Working Employee | Get a fast diagnosis to clear my suspicion of covid | It takes minimum 2 days to get a diagnosis done      | Of the slow traditional process of testing | stressed and overwhelmed |