Project Initialization and Planning Phase

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| Date | 20 April 2025 |
| Student Name | Sayali Dinkar Patil |
| Project Name | Uncovering The Hidden Treasures Of The Mushroom Kingdom: A Classification Analysis |
| Maximum Marks | 3 Marks |

Problem Statements (Uncovering The Hidden Treasures Of The Mushroom Kingdom: A Classification Analysis):

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| **PS**  **No.** | **I am (Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me**  **feel** |
| **PS- 1** | A consumer who wants to buy mushrooms | Purchase mushrooms safely | I am scared of wild mushrooms | I don’t know which ones are poisonous | Unsure and unsafe about what I consume |
| **PS- 2** | A shopkeeper | Sell safe, fresh mushrooms | I'm concerned about customer health | Mushrooms are perishable and hard to identify | Stressed about quality and customer trust |
| **PS- 3** | A restaurant owner | Use high-quality mushrooms in dishes | I struggle to find reliable sources | Some mushrooms may be harmful | Worried about safety and my business reputation |
| **PS- 4** | A biology student or forager | Learn and identify mushroom species | I find it hard to tell species apart | They look very similar | Confused, frustrated, and hesitant |
| **PS- 5** | A tech researcher | Build an AI mushroom classification system | I lack a robust image dataset | Mushrooms vary by species and environment | Limited and technically challenged |
| **PS- 6** | An environmental ist | Promote sustainable mushroom harvesting | It's hard to track species impact | Lack of identification tools in the wild | Worried about overharvesting and ecology |
| **PS- 7** | A parent | Teach my kids about safe foraging | I'm scared they might pick poisonous ones | I can’t reliably teach  what’s safe | Anxious and unconfident as a guide |

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| **PS- 8** | A  pharmaceutic al researcher | Discover medicinal mushrooms | Identification is slow and manual | Misidentification risks research accuracy | Limited in drug discovery and progress |
| **PS- 9** | An AI/ML  student | Train a deep learning model on mushrooms | There are too many similar- looking samples | Labeling is expensive and hard | Overwhelmed and unsure of training data quality |
| **PS- 10** | An NGO field worker | Educate rural communities about mushrooms | There’s no easy tool for live identification | Language and tech access barriers exist | Helpless in reaching and empowering locals |
| **PS- 11** | A grocery buyer for supermarkets | Source large quantities of safe mushrooms | I can't verify all sources accurately | Suppliers may mix types or store improperly | Concerned about liability and customer complaints |
| **PS- 12** | A food delivery aggregator | Support mushroom- based dish partners | Restaurants may use unsafe ingredients | They lack easy ID tools | Worried about brand image and customer safety |
| **PS- 13** | A forest ranger | Monitor mushroom types in protected areas | I can't classify them efficiently in the field | Many are undocumented or rare | Frustrated by lack of real-time identification |
| **PS- 14** | A health- conscious individual | Track the health benefits of different mushrooms | I can’t identify what’s in the store or dish | There’s no easy app for instant scanning | Disappointed and disconnected from my health goals |