**Project Initialization and Planning Phase**

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| Date | 21-06-2025 |
| Team ID | SWTID1749893823 |
| Project Name | AI-Powered Nutrition Analyzer For Fitness Enthusiasts |
| Maximum Marks | 3 Marks |

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

Fitness-conscious individuals often struggle to monitor nutritional intake accurately. Manual logging is error-prone and time-consuming. This project proposes an Al-powered nutrition analyzer that identifies food items from images and predicts their nutritional content using transfer learning and a nutrition database. It enables real-time, image-based food logging and calorie tracking to support fitness goals and dietary plans.

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| Problem Statement (PS) | I am (Customer) | I’m trying to | But | Because | Which makes me feel |
| |  | | --- | | AI-powered Nutrition Analyzer for Fitness Enthusiasts |  |  | | --- | |  | | |  | | --- | | A fitness enthusiast |  |  | | --- | |  | | |  | | --- | | Track and monitor my daily nutritional intake accurately and quickly |  |  | | --- | |  | | |  | | --- | | Manual logging of food is time-consuming and often inaccurate |  |  | | --- | |  | | |  | | --- | | I either forget to log meals or enter incorrect data, and I don't have the tools to analyze food from images |  |  | | --- | |  | | Frustrated, demotivated, and unsure if I’m really following my fitness and diet plan correctly |