**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | 26-05-2025 |
| Team ID | PNT2025TMID09488 |
| Project Name | Groceries Site Using MERN Stack |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit Overview:**

The **Problem–Solution Fit** validates that our **Grocery Web App** addresses key issues faced by modern-day grocery shoppers and sellers. Before scaling or extending features, it’s critical to ensure that the platform solves real problems in the grocery retail experience and aligns with user expectations.

**Purpose:**

* Provide a **convenient and accessible platform** for users to buy groceries online.
* Enable **local sellers** to digitize their inventory and reach more customers.
* Streamline the **entire shopping experience** — from browsing and adding to cart to checkout and order tracking.
* Offer **secure payment**, **real-time updates**, and **order history** for accountability and transparency.
* Eliminate the need for physical visits, especially helpful for busy individuals or those with mobility issues.

### **Problem Statement:**

Many customers and local grocery vendors face challenges such as:

* Lack of **digital presence** for small/local stores
* **Limited delivery options** and no real-time inventory view
* Time-consuming **in-store shopping** experiences
* No centralized **order, cart, and payment management system**
* Limited platforms for sellers to manage products, stock, and orders
* Inconsistent user experiences across devices

### **Solution:**

**Our Grocery Web App offers an intuitive, secure, and scalable full-stack solution:**

* **Responsive and user-friendly interface for customers on any device**
* **Category-based browsing, product search, filters, and sorting**
* **Cart functionality with real-time quantity and price updates**
* **Secure checkout and order confirmation system**
* **Seller dashboard for product uploads, stock management, and order processing**
* **Admin panel for user management, analytics, and overall platform health**
* **Real-time updates and notifications for customers and sellers**
* **Scalable architecture with MongoDB, Node.js, and Angular for performance**