## Project Design Phase Problem – Solution Fit Template

Date	3 April 2025
Team ID	SWTID1742834197
Project Name	Personal Expense Tracker App
Maximum Marks	2 Marks

## **Problem - Solution Fit Template:**

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Section	Details
Jection	Details

Target	College students, working professionals, and small business owners who want a
Customer/User	r simple and intuitive way to track and manage their daily expenses and income.

Problem	Users struggle to manually track expenses, categorize them, and view spending
(Observed	patterns over time. Most existing tools are either too complex or lack personalized
Behaviour)	insights and proper categorization.

Current	Manual tracking with Excel sheets, basic mobile apps with limited filtering and
Alternatives	category support, or complex accounting software that's not beginner-friendly.

What's	Lack of user-friendly dashboards, weak data visualizations, no proper filtering by
Frustrating or	date/type, no clear income/expense split, and limited or no route protection and
Missing?	data security in free apps.

Proposed Solution	A full-stack web app using MongoDB, Express.js, React.js, and Node.js that includes
	category management, filtering, personal dashboards, protected routes, JWT-based
	authentication, and intuitive UI via Tailwind CSS.

Unique Value Proposition	Combines modern tech (Redux, React Query, Tailwind) with practical features like
	categorized transactions, real-time filtering, JWT security, and insightful
	dashboards—all in one secure, browser-based app.

How It Solves	It simplifies financial management with clear visual feedback, intuitive interaction,
	and complete control over transactions. It also increases trust with secure login,
	protected pages, and real-time data sync using React Query.

Why Now?

As people grow more aware of financial literacy and budgeting, and with the rise of lightweight web tech, there's a strong demand for accessible, personal finance tools—especially post-pandemic when remote tracking is essential.

