

Project Report

Title of Project:

Tailor Buddy AI – Smart Tailor Management System

Name of the Innovator:

Shruti Kodam

Start Date:

6-2-2026

End Date:

9-2-2026

Day 1: Empathise & Define**Step 1: Understanding the Need****Which problem am I trying to solve?**

Many tailors forget customer measurements, dress design requirements, and delivery dates because they store details in notebooks or memory. This causes stitching mistakes, delays, and customer dissatisfaction. There is no digital system for small tailors to manage customer information easily.

Who is affected by this problem?

Local tailors, tailoring shop owners, fashion designers, and customers are affected by this problem. Tailors lose customers due to mistakes, and customers do not get accurate fitting clothes.

How did I find out about this?

Interviews, Observation, Online Research

Step 2: Problem Statement

Many tailors forget customer measurements, dress design requirements, and delivery dates. This causes mistakes, delays, and customer dissatisfaction. Traditional notebooks are not secure and can be lost easily. Therefore, there is a need for a digital system that can store customer details and help tailors manage orders efficiently.

Why is this problem important to solve?

This project is important because many small tailors still use notebooks or memory to store customer details, which leads to mistakes, lost data, and unhappy customers. A digital tailor management system will help tailors save time, improve accuracy, and grow their business using technology.

Take-home task insights:

From this problem, I learned that digital tools can solve real-life problems in small businesses. Tailors need a simple and easy-to-use system to manage customer measurements and orders. Technology can help traditional workers become more efficient and organized.

Day 2: Ideate

Step 3: List at least 5 different solutions:

1. Create a web-based application to store customer measurements and order details.
2. Develop a mobile app for tailors to manage customer records and delivery dates.
3. Use cloud storage to save tailoring data securely and access it anytime.
4. Add reminder notifications for delivery dates and pending orders.
5. Use AI to suggest dress designs and fabric patterns to customers.

Step 4: My favourite solution:

The selected solution is to develop a web-based application called Tailor Buddy AI that stores customer measurements, dress requirements, and order details. The system will help tailors manage customers easily and avoid forgetting important information.

Step 5: Why am I choosing this solution?

This solution is selected because a web-based tailor management system is simple, affordable, and easy for small tailors to use. It does not require advanced technical knowledge and can store customer data safely. This solution can help tailors reduce mistakes, save time, and improve customer satisfaction.

Day 3: Prototype & Test

Step 6: What will my solution look like?

The prototype of Tailor Buddy AI is a web application that allows tailors to enter customer measurements, dress requirements, and delivery dates. It includes a dashboard to view all customers and their orders. The prototype is designed with a simple user interface so that tailors can easily use it on mobile or computer.

What AI tools will I need?

AI tools are needed to design and build the web application automatically, generate UI layouts, and help in coding and testing. These tools help in rapid development and reduce manual coding effort.

Selected AI tools:

1. Lovable AI (for building the website automatically)
2. ChatGPT (for generating project content and ideas)
3. HTML, CSS, JavaScript (for frontend design)
4. Node.js / Firebase (for backend and database)
5. GitHub (for storing and sharing project code)

Step 7: Test - Getting Feedback

Who did I share my solution with?

The prototype was tested by my mother (a tailor), family members, classmates, and friends. They checked the usability of the system and gave feedback on the features and design.

What works well:

The system successfully stores customer measurements and dress requirements. The interface is simple and easy to use for tailors. The dashboard helps in viewing all customer orders in one place. The prototype works well on both mobile and desktop devices.

What needs improvement:

The system can be improved by adding login authentication, payment tracking, and automatic reminder notifications. More AI features such as dress design suggestions and voice input can also be added in the future.

Day 4: Showcase

Step 8: Final Project Title:

Tailor Buddy AI – Smart Tailor Management System

1-Minute Pitch Summary:

Tailor Buddy AI is a web-based application designed to help tailors manage customer measurements, dress requirements, and delivery dates digitally. Many small tailors forget important details because they use notebooks or memory. This system provides a simple digital solution that reduces errors, saves time, and improves customer satisfaction. In the future, the system can be extended with mobile apps, AI dress design suggestions, and notification features. Tailor Buddy AI is a smart step toward digital transformation for traditional tailoring businesses.

Step 9: Reflections

What did I enjoy the most?

I enjoyed designing the website, learning how AI tools can help in project development, and solving a real-life problem. This project helped me understand design thinking, teamwork, and the importance of technology in small businesses.

What was my biggest challenge?

The biggest challenge was understanding how to design the system and use AI tools to build the project. As a beginner, I had difficulty in planning the features and organizing the project structure. However, with research, practice, and guidance from AI tools, I was able to complete the project successfully.

Project Link:

<https://tailor-buddy-ai.lovable.app>