# Weekly Report

# ****Project Details****

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| **Project Title: ForgeTrack** | | |
| **Student Names and Roll No: Manan Ghoniya(23CS022), Shaurya Juneja(23CS028), Krish Kapuriya(23CS033)** | | |
| **Project Mentor(s): Rajni Ghoniya** | | |
| **Academic Mentor** | **Week Number:** | **Week 3** |
| **Asst. Prof. Hemang Thakar** | **Reporting Period:** | **3-07-25 To 10-07-25** |

**Weekly Objectives (2 Marks)**

Outline the specific objectives set for the week.

* Objective 1 : Analyze business flow and define necessary modules
* Objective 2 : Confirm limitations & requirements of actual factory usage
* Objective 3 : Decide on the tech stack and approach to login/authentication

## Tasks Completed (3 Marks)

Summarize the key tasks completed during the week.

* Task 1: Identified 4 user roles: Admin, Employee, Transporter, Customer
* Task 2: Decided to use Firebase + Firestore as backend (for free-tier, live syncing)
* Task 3: Finalized features required in Admin panel, including log filtering & multiple admin support

**Work Progress (3 Marks)**

* Completed requirements collection from the factory
* Auth method plan prepared for each user role
* Core structure of log entries (data fields) outlined
* Gantt chart and SWOT analysis finalized for the entire project

**Challenges Faced**

List the challenges or obstacles encountered and how they were addressed.

* Challenge 1: Need for a system that works on Android 6 devices.
* Resolution : Build a lightweight, browser-based app optimized for mobile-web access without needing OS-level dependencies.
* Limitation of Firebase free-tier (Firestore storage cap):
* Resolution: Implement efficient data structuring and periodic log archiving to stay within free-tier limits.

**Learnings and Skills Acquired (2 Marks)**

* Practical constraints in industrial software deployments
* Firebase Authentication types and limitations
* Efficient team planning and realistic feature mapping
* Requirement modeling through real-world discussions

**Plan for Next Week**

Outline the objectives and tasks planned for the upcoming week.

* Begin UI design for admin panel (basic layout)
* Create responsive sidebar and content switching system
* Start preparing mobile-web preview of login section

**Remarks from Mentors**

* Academic Mentor's Feedback:

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|  | **Academic Mentor Sign** |
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| **Student 1 Manan Ghoniya & Signature :-** | **Out of 10 Marks- \_\_\_\_\_\_** |
| **Student 2 Shaurya Juneja & Signature :-**  **Student 2 Krish Kapuriya & Signature :-** | **Out of 10 Marks- \_\_\_\_\_\_**  **Out of 10 Marks- \_\_\_\_\_\_** |
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