

**Chandubhai S. Patel Institute of Technology**  
**Department of Computer Science and Engineering**  
**5th Semester Project-IV**

**WEEKLY REPORT**

**Project Details**

<b>Project Title:</b> Drive Nest		
<b>Student Names and Roll No:</b> Keshvi Siroya(23CS095), Aditi Vanara(23CS101)		
<b>Project Mentor(s):</b> Jignesh Siroya		
<b>Academic Mentor</b>	<b>Week Number:</b>	Week 3
Asst. Prof, Hemang Thakar	<b>Reporting Period:</b>	3-07-25 To 10-07-25

**Weekly Objectives (2 Marks)**

Outline the specific objectives set for the week.

- Objective 1 : Set up the project environment with React.js (frontend), Node.js (backend), and MongoDB
- Objective 2 : Develop Owner login & truck management module with QR code generation
- Objective 3 : Implement file upload for truck documents and export features (Excel & PDF)

**Tasks Completed (3 Marks)**

Summarize the key tasks completed during the week.

- Task 1: Initialized React and Node.js environment and connected to MongoDB using Mongoose
- Task 2: Developed truck registration module with QR code generation, document uploads using Multer
- Task 3: Created export functionality for truck data (Excel with xlsx, PDF with jsPDF)

**Work Progress (3 Marks)**

- Current Status: [e.g., 40% completed]
- Milestones Achieved:
  - Owner authentication (login/register) with JWT implemented
  - Full truck module: Add/View/Edit/Delete trucks with documents
  - QR code generated per truck for driver login
  - Report export (Excel/PDF) working

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### **Challenges Faced**

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

- Challenge 1: File upload using Multer threw "Unexpected field" errors for documents
- Resolution : Reconfigured multer.fields() to accept specific field names for each document (PUC, Permit, etc.)
- Challenge 2 : Password mismatch issues due to storing plain vs hashed passwords
- Resolution : Added password hashing with bcrypt during registration and checked with compare() during login

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

- Technical Skills:
  - React.js (hooks, props, state management)
  - Node.js (Express APIs), MongoDB (Mongoose models)
  - File handling with Multer
  - Exporting data using XLSX and jsPDF libraries
- Soft Skills:
  - Improved problem-solving by debugging file upload issues
  - Better time management during module integration
  - Clear communication of blockers and planning tasks

### **Plan for Next Week**

Outline the objectives and tasks planned for the upcoming week.

- Task 1: Add driver login via scanning QR code and access personal truck dashboard
- Task 2 : Build modules for logging fuel and maintenance updates
- Task 3 : Start working on GPS tracking integration and UI

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**Remarks from Mentors**

- Academic Mentor's Feedback:

**Academic Mentor Sign**

**Student 1 Keshvi Siroya & Signature :-**

**Out of 10 Marks- \_\_\_\_\_**

**Student 2 Aditi Vanra & Signature :-**

**Out of 10 Marks- \_\_\_\_\_**