

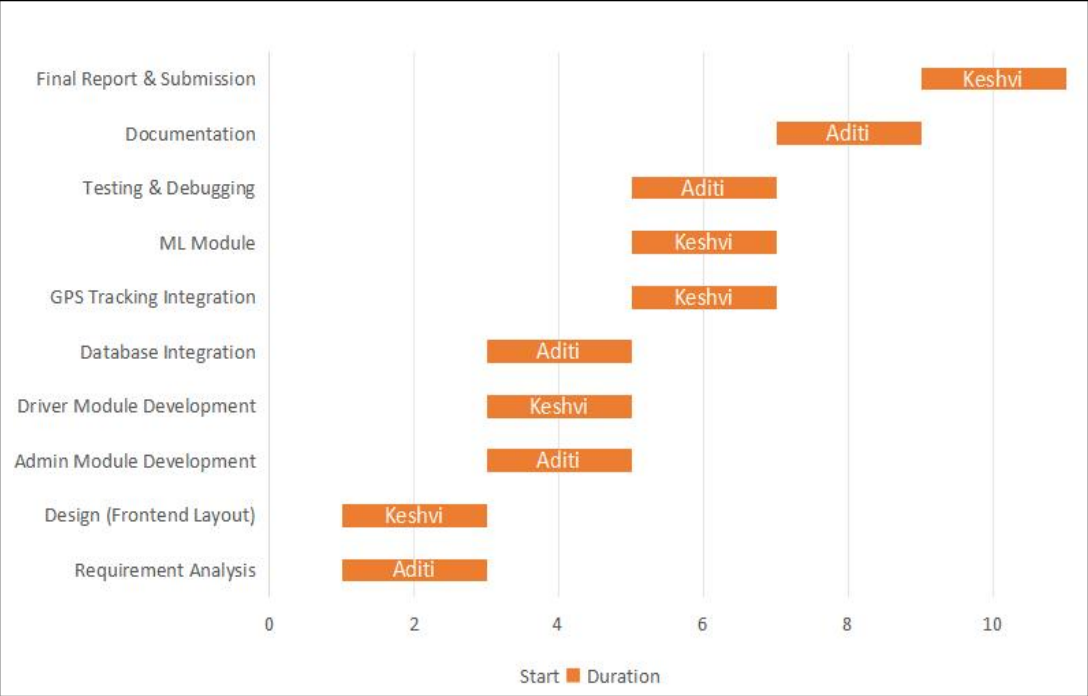
**Faculty of Technology and Engineering**  
**Chandubhai S. Patel Institute of Technology**  
**Department of Computer Science & Engineering**

**Project Problem Statement for Project-III**

<b>Project Group ID: CSPIT/CSE/B2/</b>		
<b>Student ID:</b>	23CS095	23CS101
<b>Name:</b>	Siroya Keshvi	Vanara Aditi
<b>Project Title:</b>	DriveNest	
<b>Domain of Project Definition:</b>	Logistics and Transportation Management	
<b>Technology/Methodologies to be used in project:</b>	<ul style="list-style-type: none"> <li>• Frontend: React.js</li> <li>• Backend: Node.Js &amp; MongoDB</li> <li>• Database: MongoDB</li> <li>• REST APIs</li> <li>• Git &amp; GitHub for version control</li> <li>• Machine Learning for delay prediction</li> </ul>	
<b>Project Objectives</b>	<ul style="list-style-type: none"> <li>• To streamline truck and transport operations through a centralized web platform</li> <li>• To enable efficient assignment and monitoring of drivers</li> <li>• To generate analytical reports and summaries for the admin</li> <li>• To enhance communication between admin and drivers</li> <li>• To implement ML models for predicting route delays</li> <li>• To provide real-time tracking of vehicles using GPS integration</li> </ul>	

<b>Brief Description about project:</b>	<p>The DriveNest is a web-based solution designed to manage and monitor logistics operations efficiently. It includes modules for admin and drivers, allowing the admin to assign trips, track vehicle movement via GPS, and receive updates from drivers in real time. The system aims to reduce manual overhead, improve route planning, and provide insightful reports. An optional machine learning component can be integrated to predict delays based on historical data, enhancing decision-making and delivery reliability.</p>
<b>SWOT analysis chart for the Project</b>	<p><b>Strengths:</b></p> <p>Centralized management system</p> <p>Real-time tracking and updates</p> <p>Scalable and modular design</p> <p><b>Weaknesses:</b></p> <p>Initial setup complexity</p> <p>GPS and ML integration may require additional resources</p> <p>Dependence on internet connectivity</p> <p><b>Opportunities:</b></p> <p>Can be extended for large logistics companies</p> <p>Potential for mobile app integration</p> <p>Scope for advanced analytics and automation</p> <p><b>Threats:</b></p> <p>Data security and privacy risks</p> <p>Integration challenges with third-party APIs</p> <p>Competition from existing commercial solutions</p>
<b>Project Deliverables</b>	<ul style="list-style-type: none"><li>• Admin dashboard with trip assignment and driver management</li><li>• Driver module for route details and status updates</li><li>• GPS-based vehicle tracking system</li><li>• Functional backend with database integration</li><li>• Report generation and analytics module</li><li>• Source code hosted on GitHub</li><li>• Project documentation and user manual</li></ul>

Gantt chart with Project  
Timeline and Team  
Roles



Student 1 Sign

Student 2 Sign

**Assessment Rubric to evaluate Difficulty level of Project:**

Criteria	Marks
Scope and Complexity	
Technical Challenges	
Resource Requirements	
Quality level of Gantt Chart	
Quality level of SWOT analysis chart	
Innovation and Creativity	
<b>Total (Out of 30)</b>	

**Assessment Rubric to evaluate quality of Project Problem Statement:**

Criteria	Marks
Clarity of Problem Statement	
Relevance to Project Objectives	
Clarity of Language and Presentation	
Overall Impression	
<b>Total (Out of 20)</b>	

**Mentor's Comments:**

**Mentor's Sign:**

**HOD's Sign with Comments:**