MAJOR / MINOR PROJECT ABSTRACT [Form – 1] (YEAR - 2025)

NAME OF LAB COORDINATOR: Dr. Priyanka Yadav

TITLE OF PROJECT: Online toll notification System.

PROJECT TRACK: (Tick the appropriate one / ones)

1. R&D ✓ (Innovation)	2. CONSULTANCY (Fetched from Industry)	3. STARTUP (Self-Business Initiative)	4. PROJECT POOL (From IBM / INFOSYS)	5. HARDWARE / EMBEDDED

BRIEF INTRODUCTION OF PROJECT:

The Online toll notification system is a smart mobility system designed to notify users 1-2 km before approaching toll plaza and system also tracks FASTag Balance and alerts user in advance if balance is low. A user friendly app interface and admin dashboard ensure realtime data management & Notification.

TOOLS / TECHNOLOGIES TO BE USED:

NAME OF TOOL / TECHNOLOGY	VERSION	SOFTWARE / HARDWARE	PURPOSE OF USE
React.js	V18.2.0	Software	Frontend Development
Node.js with Express	V18.17.0	Software	Backend Development
Mongo DB / SQL	V8.0	Software	Database
VS Code HTML CSS JS	V1.93	Software	Development environment

PROPOSED PROJECT MODULES:

NAME OF MODULE	PROPOSED FUNCTIONALITY IN PROJECT
User Management	Signup, login, Role based Access, Dashboard
FastTag Data creation.	Creating a self fastag user database
Notification System	Creating a Notification using Socket
Admin Panel Module.	Dashboard with analytics, manage users and information
Map and location Module.	Fetching location.

TEAM MEMBER DETAILS:

STUDENT NAME	CLASS & GROUP	MOBILE No.	EXPERTISE AREA	ROLE IN PROJECT
Harshit Kumar Jain	A - G2	8824547308	Backend and Database	Backend Developer
Himanshu Singh	A - G2	7728040436	Notification Expert	Backend Developer.
Chirag	A - G2	9351309329	Frontend & UI/UX	Frontend Developer

NOTE: 1. This form is to be submitted by a team of maximum 4 students in the starting of semester to lab coordinator.

2. Students must keep a Xerox copy of this form as reference for project work and attach it to final report.