Savitribai Phule Pune University Faculty of Information Technology

|  | **Hope Foundation's International Institute of Information Technology, Pune**  **Department of Information Technology** |
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**(Academic Year:2024-25)**

**Project Group No:** BIA - 04

**Project Title:** GeoToll - GPS Based Toll Tracking System

**Group Details:**

| **Sr. No** | **Roll No.** | **Name of students** | **Mobile No.** | **Email id** |
| --- | --- | --- | --- | --- |
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**(Academic Year: 2024-25)**

**Project Title:**

**Project Group No:** BIA - 04 **Guide Name:** Bhavana Kanawade

**Group members:** GeoToll - GPS Based Toll Tracking System

| **Roll No** | **Name of Students** | **Project Domain** | **Project Platform /Software requirement** |
| --- | --- | --- | --- |
| BIA01 | Omkar Aher |  |  |
| BIA09 | Srushti Bonde | Full Stack | Web Application |
| BIA21 | Dhruv Gidwani |  |  |
| BIA28 | Pranav Jawale |  |  |

**Abstract:**

The Toll Tracking System using GPS technology is an innovative solution designed to modernize toll collection on highways and enhance road safety by incorporating speed tracking. This system leverages GPS technology to track vehicles' movements, automatically calculating toll charges based on the distance traveled on highway. Additionally, it monitors vehicle speeds and imposes penalties for overspeeding, promoting safer driving practices. The system provides real-time notifications to users regarding toll deductions and penalties, ensuring transparency and convenience. By eliminating traditional toll booths, this system aims to reduce congestion, enhance user experience, and improve overall traffic flow.

**Keywords:**

Digitization, GPS based system, Automatic route charge, Distance traveled, Toll fee calculation, Predefined toll charges, Vehicle tracking, Electronic toll collection (ETC), Speed Monitoring, Over Speeding Penalties, Toll booth elimination

**References:**

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