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| Department of Computer Science and Engineering ( V Semester) | | | | |
| JAVA and Spring Framework Lab (CS3603-1) | | | | |
| **Mini-Project Abstract** | | | | |
| **Project Title:** Bus Timming Application | | | | |
| **Team Members**  **(Section - C)** | **Sl. No.** | **USN** | | **Name** |
| 1. | NNM22CS181 | | Suhan Shetty |
| 2. |  | |  |
| Abstract (Max 500 words)    The Bus Timings Application is a web-based system developed using Java Server Pages (JSP) aimed at providing users with real-time information about bus schedules and availability. The application facilitates efficient travel planning by allowing users to view buses based on their current location, destination, and preferred time.  The system ensures users can quickly find the most convenient bus timings by filtering search results and displaying only relevant buses. The Spring Framework forms the backbone of this project, incorporating modules such as Spring Boot, Spring MVC, and Spring Data JPA for seamless handling of user queries and database operations. This framework helps in building a scalable application that ensures smooth functioning even as data volume increases over time.  With MySQL as the underlying database, the system stores all route information, schedules, and bus availability data. Users can access this information effortlessly through a friendly interface hosted on Apache Tomcat via XAMPP.  The objective of this project is to bridge the gap between passengers and public transportation by providing accurate, real-time schedules, ensuring commuters plan their journeys more efficiently. This system can be extended to provide notifications for delays or route changes, further enhancing the user experience. | | | | |
| Tools and Technologies Used:  JSP, Java, MySQL, XAMPP, Apache Tomcat | | | | |
| **Approved:** Yes / No | **Date: 15-10-2024** | | **Staff Name and Signature:** | |

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