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1. Exploiting Loop Holes   (T.Y Sem 6 – Jan 2022)

As a solo developer, I created a robust web application for a tours and travels management system, streamlining the process of managing tour bookings and travel itineraries. Additionally, I performed vulnerability testing to identify and address potential security issues.

Key features of the project include:

➢ Underlined User Authentication and Authorization: Implemented secure user login and role-based access control to ensure only authorized users could access sensitive information.
➢ Dynamic Tour Management: Allowed administrators to add, update, and delete tour packages dynamically.
➢ Real-time Booking System: Enabled users to book tours in real-time.
➢ Advanced Security Measures: Integrated Nessus vulnerability scanning to proactively identify and secure open TCP/IP ports, ensuring the application was protected against potential threats.
➢ Payment Integration: Integrated secure payment gateways for seamless transaction processing.

This project honed my skills in full stack development, including frontend technologies (HTML, CSS, JavaScript), backend frameworks (PHP), and database management (MySQL).

2. Placement Management System   (M.Sc. Sem 2 – May 2024)

In a team of five, I served as the backend and database developer for the Placement Management System project, Created for **Nowrosjee Wadia College, Pune**. This system was designed to optimize the placement process for students, teachers, and companies, providing a centralized platform for managing all placement-related activities.

Key features of the project include:

➢ Student Profile Management: Students can create and update their profiles, upload resumes, and track their application status for various placement drives.
➢ Placement Drive Management: Teachers can organize placement drives, monitor department-wise placement statistics, and generate reports to track the performance of their students.
➢ Company Interaction: Companies can post job openings, review student applications, and schedule interviews through the platform.
➢ Automated Notifications: Implemented email and SMS notifications to keep students and companies informed about important updates and deadlines.

My contributions included:

➢ Database Design and Management: Designed the database schema using MongoDB and Mongoose, ensuring efficient data storage and retrieval.
➢ API Development: Developed RESTful APIs using Node.js and Express.js to handle various functionalities, such as user authentication, profile management, and placement drive operations.
➢ Data Security: Implemented security best practices to protect sensitive data, including encryption of passwords and secure access controls.

This project enhanced my expertise in backend development including backend technologies (Node.js, Express.js), database management (MongoDB), and collaboration within a team setting.