

Internship Program: Web Development Task

Task Title: Staff ID Verification System

Introduction:

In this task, interns will develop a web-based system to verify the ID of staff members in an organization. The goal is to create a functional web application that allows users to input staff details, validate their ID, and display relevant output upon successful verification.

Technologies to Use:

- **Frontend Stack:**
 - HTML (for structuring the webpage)
 - CSS (for styling and layout)
 - JavaScript (for interactivity)
 - Bootstrap / Tailwind CSS (optional, for better styling)
 - **Backend Stack:**
 - Python (Flask/Django) or Node.js (Express.js)
 - Database Option: MySQL, SQLite, or PostgreSQL
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Task Explanation:

1. **Understanding ID Verification Systems:**
 - Learn how an ID verification system works in an organization.
 - Understand the importance of validating user input securely.
2. **Building the System Components:**
 - **User Interface:** Create a form where users can input staff ID and name.
 - **Database:** Store staff records, including name, ID, and department.
 - **Verification Logic:** Check if the entered ID exists in the database and return the corresponding details.
 - **Output Display:** Show success or failure messages upon verification.
3. **Applying Styling & Effects:**
 - Use CSS for an organized and visually appealing interface.
 - Ensure responsiveness across different screen sizes.
4. **Adding Basic Interactivity:**

- Use JavaScript to validate input before sending a request to the backend.
- Implement AJAX or Fetch API to handle verification requests without reloading the page.

5. Optional Enhancements:

- Add a feature to upload staff ID images for additional verification.
- Implement role-based access (e.g., Admin can add/edit staff records, Users can only verify IDs).

Conclusion:

This task will help interns understand web development fundamentals, database management, and backend API integration. They will also gain experience in creating a simple but practical verification system used in real-world applications.

Deliverables:

- Source code in a GitHub repository (or shared via a zip file).
- A working web application demonstrating ID verification.
- Screenshots or a short demo video showcasing the system.
- A short documentation explaining the database schema and verification process.

Good luck! Happy coding! 🚀