Bug Report: Employee Management API (employee_route.py)

- **Date**: 30 July 2025
- **Reporter**: HTH
- **Environment**: Postman, Python, Flask

This report details the defects found during the execution of the test cases for the employee management module. A significant number of failures were observed, primarily related to improper error handling and a critical lack of security controls.

Bug ID	Test Case ID	Summary	Description	Priority	Status
EMP-BUG-001	EMP-001-TC-002	Improper error handling for duplicate employee ID	When attempting to create an employee with an id that already exists, the API returns a generic 500 Internal Server Error instead of a specific client error.	HIGH	OPEN
EMP-BUG-002	EMP-001-TC-003	Improper error handling for duplicate email	When attempting to create an employee with an email that already exists, the API returns a generic 500 Internal Server Error.	HIGH	OPEN

EMP-BUG-003	EMP-001-TC-004	Improper error handling for missing required fields	When a required field like role is omitted from the request body, the API returns a generic 500 Internal Server Error.	HIGH	OPEN
EMP-BUG-004	EMP-001-TC-005	Improper error handling for invalid role value	When attempting to create an employee with a role that is not in the allowed list (e.g., "Intern"), the API returns a generic 500 Internal Server Error.	HIGH	OPEN
EMP-BUG-005	EMP-001-TC-006	Improper error handling for invalid teacher_status	When creating a non-teacher employee (e.g., 'Manager') and providing a teacher_status, the API returns a generic 500 Internal Server Error.	HIGH	OPEN
EMP-BUG-006	EMP-001-TC-007,	Employee management endpoints lack	The endpoints for adding (/employee/add) and viewing	CRITICAL	OPEN

	EMP-002-TC-002	role-based access control	(/employee/) employees are not protected. Any authenticated user, regardless of their role, can perform these administrative actions.		