Bug Report: Contract Management API (contract_route.py)

- **Date:** 05 August 2025

- **Reporter:** HTH

- **Environment:** Postman, Python, Flask

This report details the defects found during the execution of the test cases for the contract management module.

Bug ID	Test Case ID	Description	Priority	Status
CON-BUG-001	CON-001-TC-001	**Invalid Field in Schema:** The API returns a 400 Bad Request with an "Unknown field" error when a request body includes an "id". The contract_schema does not account for an incoming id, as this value is intended to be generated by the server.	HIGH	Open
CON-BUG-002	CON-001-TC-001, CON-001-TC-002	**Incorrect Attribute Name in Database Query:** The validate_course	CRITICAL	Open

		helper function in contract_route.py attempts to query the Course model using the attribute course_id. However, the correct attribute name in the Course model is id. This causes a 500 Internal Server Error and prevents any contract from being created.		
CON-BUG-003	CON-001-TC-003, CON-001-TC-004	**Critical Bug Masks Other Errors:** The 500 Internal Server Error from bug CON-BUG-002 prevents the API from returning the expected 404 Not Found errors. The validate_course function crashes before the logic for handling non-existent	HIGH	Open

		students or courses can be executed.		