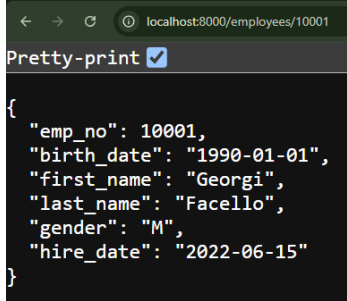
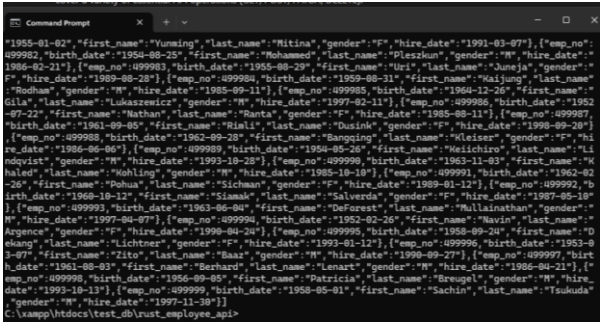
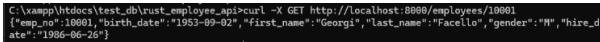
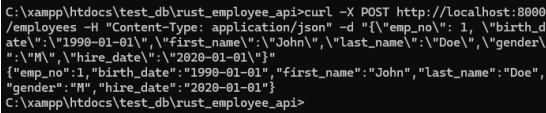
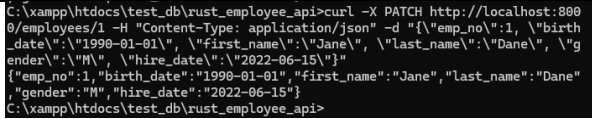
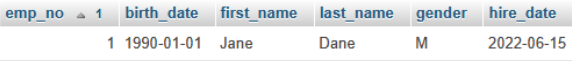
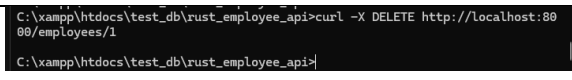

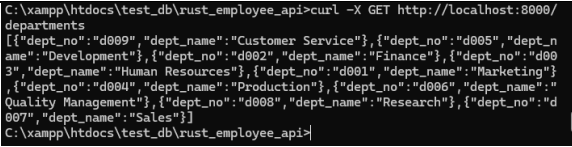
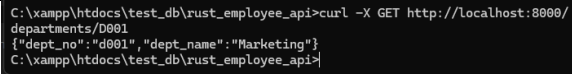
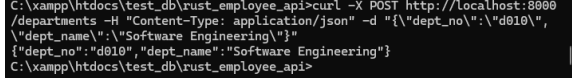

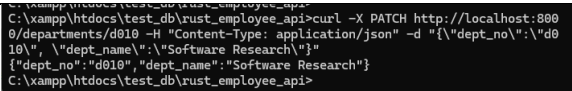

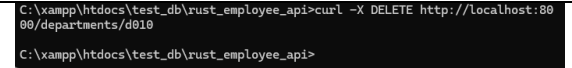
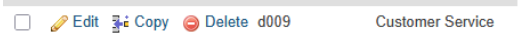


## A. Design RUST API with CRUD features to an EMPLOYEE DB (In progress)

Current API progress		
1. Implemented CRUD functions, results returns as plaintext JSON format		 <p>GET results for single employee</p>
API CRUL functions testing - Using CRUL for commands, local XAMPP database.		
Using database from: <a href="https://github.com/datacharmer/test_db">https://github.com/datacharmer/test_db</a>		
1. List all employees	<pre>curl -X GET http://localhost:8000/employees</pre>	 <p>All employees list</p>
2. List single employee	<pre>curl -X GET http://localhost:8000/employees/1</pre>	 <p>Single employee</p>
3. Create single employee	<pre>curl -X POST http://localhost:8000/employees -H "Content-Type: application/json" -d '{"emp_no": 1, "birth_date": "1990-01-01", "first_name": "John", "last_name": "Doe", "gender": "M", "hire_date": "2020-01-01"}'</pre>	 <p>Success adding data into database</p>
4. Update single employee	<pre>curl -X PATCH http://localhost:8000/employees/1 -H "Content-Type: application/json" -d '{"emp_no": 1, "birth_date": "1990-01-01", "first_name": "Jane", "last_name": "Dane"}'</pre>	

	<code>\\"gender\\":\\"M\\", \\"hire_date\\":\\"2022-06-15\\"}</code>	 <p>Success update data for emp_no: 1</p>
5. Delete single employee	<code>curl -X DELETE http://localhost:8000/employees/1</code>	  <p>Success delete data of emp_no: 1</p>
6. List all departments	<code>curl -X GET http://localhost:8000/departments</code>	 <p>All departments list</p>
7. List single department	<code>curl -X GET http://localhost:8000/departments/D001</code>	 <p>Single department</p>
8. Create department	<code>curl -X POST http://localhost:8000/departments -H "Content-Type: application/json" -d '{"dept_no":"d010", "dept_name":"Software Engineering"}'</code>	  <p>Success adding data into database</p>
9. Update single department	<code>curl -X PATCH http://localhost:8000/departments/d010 -H "Content-Type: application/json" -d '{"dept_no":"d010", "dept_name":"Software Research"}'</code>	  <p>Success update data for dept_no: d010</p>
10. Delete single department	<code>curl -X DELETE http://localhost:8000/departments/d010</code>	  <p>Success delete data of dept_no: d010</p>

Changes to implement:

1. Implement API limit control, use Bearer token/JWT. Define token limit on database.
2. Implement SODIUM encryption to encrypt results from plaintext to **encrypted** JSON
3. Decryption from PHP layer, should display back the plaintext.