

SWDBA501-DEVELOP BACKEND APP USING Node.JS

L.O.2. SECURE BACKEND APPLICATION

2.4. Implementation of Authentication (Login)

Practical Question (Group work):

Create a user authentication API in Node.js that allows users to log in by verifying credentials stored in a MySQL database. Ensure the API is functional by testing it using Postman.

Criteria & Checklist:

1. Create a MySQL Database and Table

Create a database named **schools**.

Inside the database, create a table named **users** with the following columns:

- id (INT, Primary Key, Auto Increment)
- username (VARCHAR, UNIQUE)
- password (VARCHAR, Hashed)

Insert at least one user record with a password.

2. Create an API for Login & Test MySQL Connection

Set up a Node.js project and install dependencies (express, mysql).

Create a MySQL connection and ensure the server connects without errors.

Create a **POST** API endpoint that:

- Accepts username and password.
- Retrieves the user record from MySQL.
- Compares the entered password with the stored password.
- Returns a success message if credentials match, otherwise an error message.

3. Test the API using Postman

Use Postman to send a POST request to **http://localhost:5000/login** with valid credentials.

Verify the response returns { **"message": "Login successful"** }.

Test with incorrect credentials to ensure it returns { **"message": "Invalid username or password"** }.

End!!!