

CSCI 341 Assignment 2

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For this assignment, I have successfully created a SQL schema for a caregiver platform with the following entities: user, member, caregiver, job, job application, appointment, address.

Part 1.

Using MySQL, I was able to create a schema that can handle basic operations and establishes relationships between different entities. As a result, 7 tables were created.

Part 2.

Using Python, I was able to establish a connection to my SQL database using SQLAlchemy and perform basic operations with the database, such as updating an attribute of an entity, deleting a row, or adding a new entry to the database. All the subtasks were successfully completed and the results were printed out.

Part 3 (Bonus part).

For the bonus part, I created a simple webpage to interact with the database using React.js for client-side development and FastAPI to create a server. The webpage allows new people to register and login as a caregiver or member, do basic CRUD operations, for example, post job advertisements, gain information about other users, etc. For convenience, SwaggerUI was implemented that allows for testing the backend.

Frontend and backend work together to successfully interact with the database and serve as a great base for expanding the assignment to a wide scale application.