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Back End Test

Theoretical Test

1. How does one combine two Pandas dataframes?
2. What is the difference between a local variable and a global variable?
3. How does one create a copy of a dataframe using Pandas?
4. How does one handle concurrent requests in Flask?
5. What is a Replica Set in MongoDB?
6. What is a Transaction in a database context?

Practical Test

Create an application using Python, Flask and SQL to register and authenticate an user. The user must have an unique email address and the password must have at least 8 characters.

The application must consult an external API, such as PokeAPI(<https://pokeapi.co/>), use Pandas to process the data and save it in a MongoDB database. The CRUD endpoints for this part of the application must be accessible only to a previously authenticated user existing in the SQL database. All endpoints must return an JSON response with status, data, message and HTTP code.

The project must be added to a public repository on Github and shared with the person responsible for the selection. The README.md file must contain the answers for the theoretical test, as well as the instructions necessary to execute the project.

The code must be well documented and follow good development practices.