

Exercise 1.7: Finalizing Your Python Program

1. What is an ORM and advantages?

An ORM (Object-Relational Mapper) allows developers to interact with databases using object-oriented code instead of raw SQL. Advantages include:

- Simplified database operations using Python syntax
- Database abstraction making it easier to switch DBMS
- Protection against SQL injection
- Easier maintenance and readability

2. How did creating the Recipe app go?

The project helped me consolidate my skills in Python, database interaction, and application logic. I successfully built CRUD features and handled errors. I enjoyed structuring the app clearly.

3. How to respond to interview questions on app development experience?

I would explain my experience building a Recipe app using Python and SQLAlchemy, implementing database models, handling user input, and ensuring data persistence. I would emphasize problem-solving and following best practices.

4. Reflect on your learning so far

- What went well: Learning database integration and OOP concepts
- Proud of: Building a functional app and handling edge cases
- Challenges: Managing SQLAlchemy sessions and debugging queries
- Expectations met: Yes, I feel more confident in backend development
- Keep in mind: Continue improving testing, documentation, and deployment skills