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WEEK 4 DAY 4: 16/10/25 [THURSDAY]

TASK : Learn/use Flask-Migrate or write simple script to seed DB; migrations when schema changes

QUESTIONS/REFLECTIONS:

1. What is a migration? How it works: generating migration file → applying it → version control.

Migration is wa to change and control the database, where
You add new tables
Rename columns
Change data types
Add constraints or indexes

How it works:

1. Generate Migration File:

Ex, flask db migrate -m "Add email column to users"

This command:

- Scans for schema changes
 - Generates a migration file with SQL commands
2. Apply migration:
flask db upgrade
 3. Version control

2. How to seed data: why and how.

Seeding means inserting initial or reference data.

Why:

- To create **default records** (e.g., admin user, categories, roles)
- To have **test data** during development
- To **bootstrap configuration** for production

How to run:

Use the command, python seed.py to run the data.

3. If you need to add a new column to tasks table after app is in use, how do you do that safely?

- Update the task model.
- Generate migration: flask db migrate -m "Add priority column to tasks"
- Apply the changes: flask db upgrade
- Push and commit the changes
- Run the flask dp upgrade
- Restart the app
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