NAVYA NARAYAN PANICKER

WEEK 4

DAY 1: 13/10/25 [MONDAY]

TASK: Add endpoints: Design schema for tasks: fields such as id, title, description, status, due_date; create tables

QUESTIONS/REFLECTIONS:

- 1. What is the normalized form? Why avoid data redundancy?
 - Normalization is a form that is used to structure the relational databases to reduce the redundancy.
 - There are different kind of normal forms:
 1NF, 2NF, 3NF, BCNF
 - If you change the same data in multiple places then it will cause inconsistent data
 - The complexity of the database will increase otherwise.
 - The operations will be slower as the db becomes heavier.
- 2. How would you decide types (VARCHAR, DATE, INT etc.)?
 - The type should match the meaning of the data that you want to store.
 - Use appropriate integer that fits the data and can save space.
 - Date/time is used if you want to show the date and time.
 - Numeric for integer data.
- 3. Describe schema changes you might make if tasks need tagging / user assignment.
 - Add a tag table and a task_tag and join the table to support multiple tagging.
 - Add a user table
 - Add a task_assignment table to assign multiple times.
 - Add required indexes, constraints and foreign keys.