

## AeroAspire -SDE Intern Training

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- Learning Topics
  - Migrations
  - DB setup scripts
  - Seed data
- Task
  - Learn/use Flask-Migrate or write simple script to seed DB
  - Migrations when schema changes
- Questions
  - 1. What is a migration? How it works: generating migration file → applying it → version control.
    - Migration means changing structure of database like adding columns, rows, tables
    - Migration helps update database as we make changes
    - The migration file is generated when we install flask-migrate package
    - **Run a command like migrate or upgrade** that applies the changes in the migration file to your database
    - Migration files are tracked using Git, and database remains consistent
  - 2. How to seed data: why and how.
    - Seed data means putting sample data in the database
    - It is done to test all the data and methods on that
    - We add a function for seed that inserts the sample data
    - And then run this function when the database is ready
  - 3. If you need to add a new column to tasks table after app is in use, how do you do that safely?
    - First we **make a migration file that describes the new column**
    - Execute the migration to add the column or data
    - We make sure the existing fields have default values
    - Then we can access this new column from anywhere