Lab 2

Software Design 2023

Today

- Lab materials
- Git
- Assignment presentation + discussion
- Project
 - Choose topic
 - Deliverable 1 presentation

Lab materials

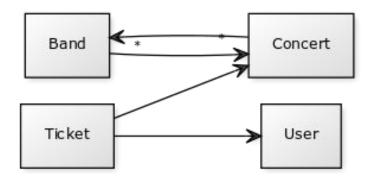
- https://github.com/CristinaMadalinaMihai/UTCNSoftwareDesignLaboratory/tre e/main/lab2
- Take 15-20 min to read the lab

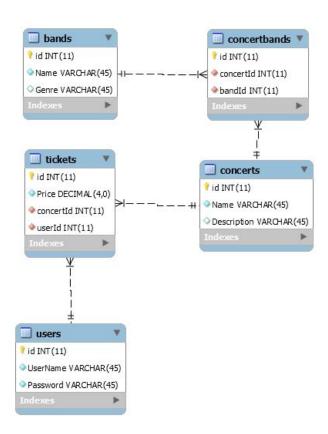
Git

- Assignments and project will be uploaded on github before the presentation
 - Source code only
- https://docs.google.com/spreadsheets/d/1eBrwkMMmoELQkSzzAEIhQ0b-A5 zSfx-ZjOGpvCfohS4/edit?usp=sharing

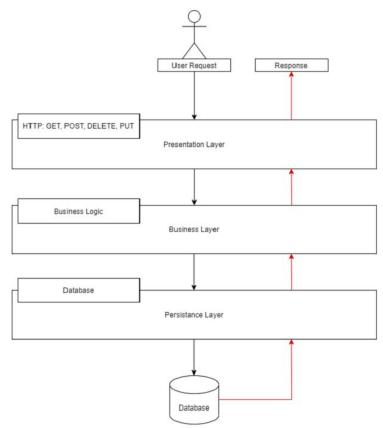
- Ticket selling system
- 2 users: admin and cashier
- Admin: CRUD + export operations
- Cashier: manage tickets

- Database modeling example:
 - A ticketing agency needs to build a model to sell tickets
 - A concert can be held with many bands
 - Users can buy tickets to a concert





- Layered architecture
- https://www.oreilly.com/library/view/softw 1437/ch01.html



- Base64 encryption for passwords
 - Other encode/decode technique is allowed
- Validations
 - Sold out
 - User/Performance not found
 - Not enough available places

- Export to csv/xml
- Factory vs Factory method
- The factory method pattern provides an abstraction/interface for creating an object. And the job must be done by a subclass.
- A simple factory is a class or function that creates an object.

Project

• Choose topic