Cairo University **Faculty of Computers and Artificial Intelligence**

Software design specification document

2022

Project Team

ID	Name	Email

Contents

SDS document

Instructions[To be removed]

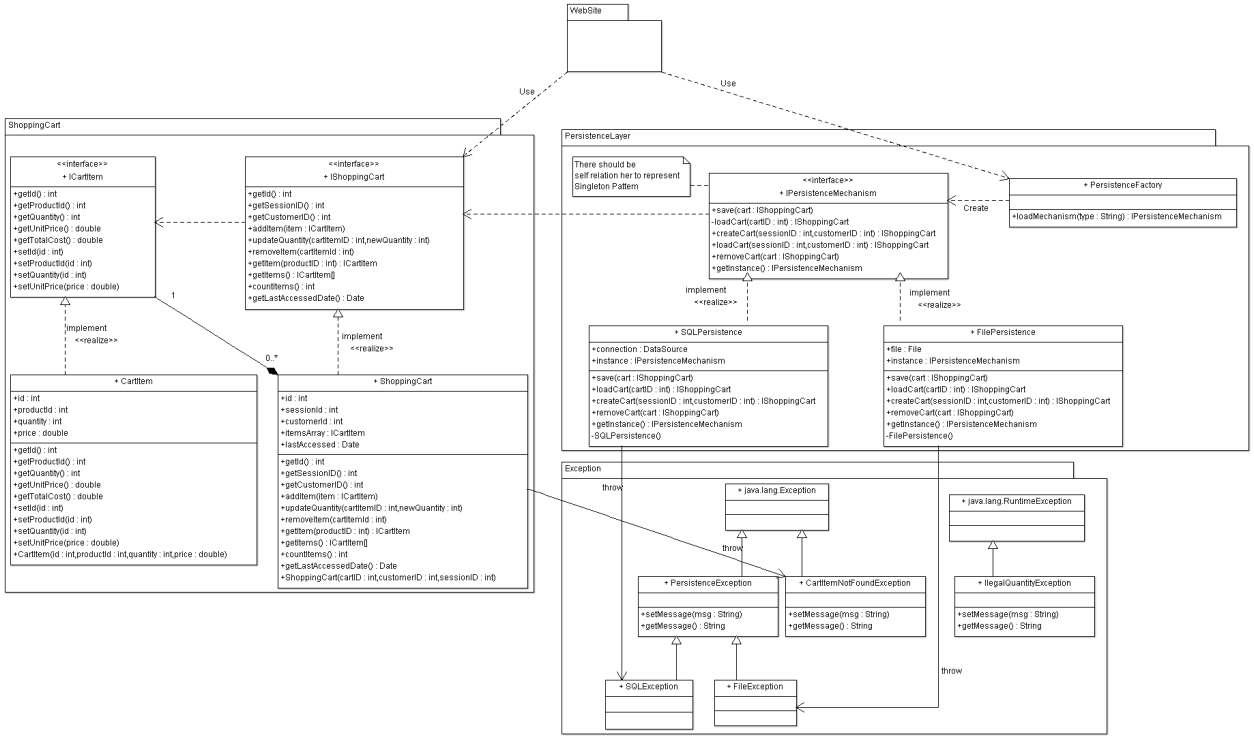
- IMPORTANT. Rename this document to **Phase2_LabGroupNumber_Phase1_StudentID1_StudentID2_StudentID3_StudentID4_SDS Document.docx**

- **Remove the following notes and any red notes**

Class diagram design

- **You should provide clean version for your class diagram design.**
- **Class diagram is a static diagram and should not represent any dynamic flow of events.**
- **Put Relationships between classes and the types of the relationships.**
- **Put multiplicity.**
- **Put relationship name (e.g. faculty "offer" course).**
- **Put attributes in the classes.**
- **Put functions &Put parameters.**
- **Put data types of each attributes and the parameters.**
- **Highly perfered: Each class has a corresponding interface**
  - **Let all objects parameters and returns be of interface type.**
- **See Shopping Cart Case Study**

SDS document



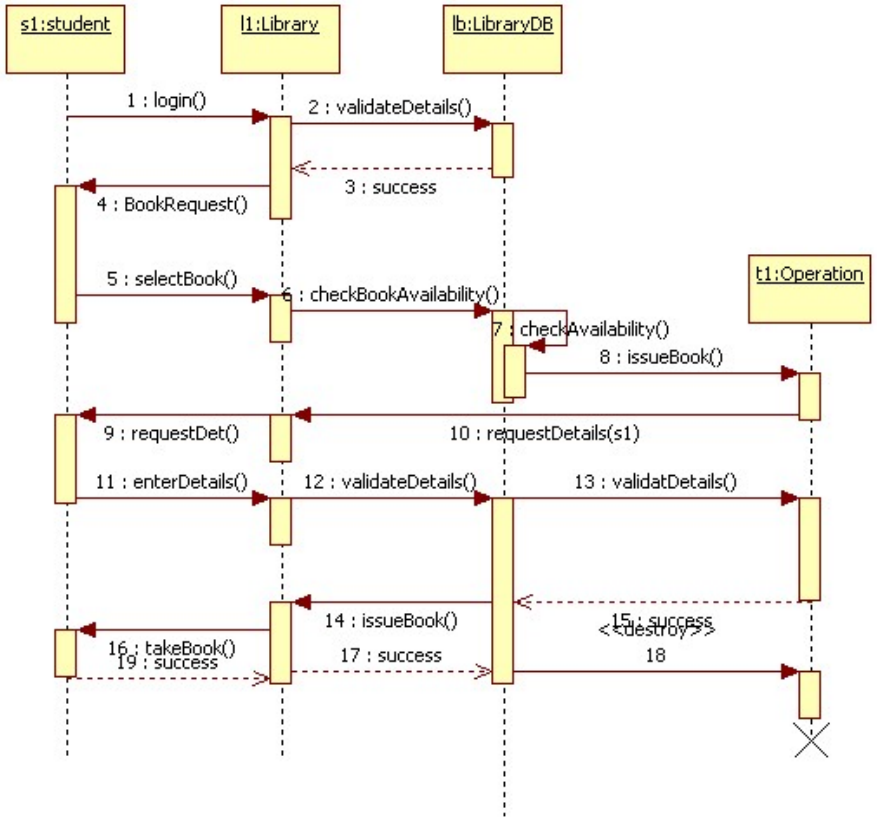
Class diagram Explanation

- **Explain here the design pattern(s) that you used and your justification for using them, and the participating classes for each pattern.**

Sequence diagram design

- **List Sequence diagrams for the most important user story (according to your opinion).**
- **Make sure that each object in the sequence diagram has a corresponding class in the class description table above. If not, it will be REJECTED.**
- **Put actual function calls with proper parameters and return types corresponding to class diagrams.**
- **Following are couple of examples for small / meduim examples. We expect such diagrams, however there is a missing thing in them. Most of calls don't have parameters. Please always specify the parameters in the call, matching the class diagram.**

SDS document



Requirements Exposure as Web Service API

Part 1: Exposed Postman Collection

Part 2:

Explain here the exact mapping between every single requirement and its corresponding web service API operation. A sample example is provided to better explain the concept.

Requirement		Exposed API
		1- GET /user/check

SDS document

The system should check if the username or the email is registered before.		A service to check if the user exists or not. This service returns all user info if exists Input: email and password.

Github repository link

- **URL for your repository, should contains implemented services**,