

SOFTWARE ARCHITECTURE AND DESIGN

SEMESTER 2 (2021 – 2022)

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EXERCISE 1

- Student may discuss with each other but **DO NOT COPY**
 - **Due date: Thursday 24.02.2022.**
 - Your work will be evaluated at class
1. Present:
 - a. Definition of e-commerce. Styles/types of e-commerce and their features
<https://bloomidea.com/en/blog/types-e-commerce>
 - b. Technologies for developing e-commerce
<https://zoolatech.com/blog/choosing-a-technology-stack-for-ecommerce-development/>
 2. Investigate 4 web pages (2 from our nation and 2 from other nations) and write a report with the following topics and **related pictures**:
 - a. Describe functionalities.
 - b. Describe services
 3. Present the 3-layer architecture style which is considered to be suitable to e-commerce systems with web pages (**5 pages**).
<https://www.logianalytics.com/5-benefits-3-tier-architecture/>
<https://designarchitects.art/3-tier-architecture-in-e-commerce/>
 4. Present Model MVC and pattern DAO for constructing software systems, especially e-commerce with 3-layer web. Present 5 examples with DAO and then 3-layers :
https://www.tutorialspoint.com/design_pattern/data_access_object_pattern.htm
 - class Book{...}
 - class Customer{....}
 - class Student{...}
 - class Item{...}
 - class Order{....}with UML and java code.