

SOFTWARE ARCHITECTURE & DESIGN

SEMESTER 2 (2021 – 2022)

PROJECT

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Working in team:

- Construct a shopping online store **ShopOnline** with various items
 - Books
 - Mobile Phones
 - Clothes
 - Laptop
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- Functionalities:
 1. Customer performs activities to create Order: *search, crawler, add to cart, shipment, payment (using PayPal), comment and rate items,....*
 2. Employees:
 - 2.1 Selling Staff: *update items, price... and push on web (Exercise 3 updated)*
 - 2.2 Order processing staff: *update order, feedback information to customer, dispatch to store department for packaging and to shipping department*
 - 2.3 **Analyze comments**, rating for recommending items
- Collect requirements: Students may collect information from webs such as online stores tiki, amazon, eBay, Pinterest...for more functionality

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DEVELOPING YOUR SOFTWARE SYSTEM IN TEAM

Three stages:

PROJECT stage 1: Writing Document & Code

TUESDAY 12/04/2022

THURSDAY 14/04/2022

Write a **software document** in design for your system and coding functions for selling staff

1. Draw a *use case diagram (with detailed level), 5-6 sequence diagrams, 5-6 activity diagrams (01/student)*
2. Construct a class diagram in analysis (**NO 1...m, ORM**) with some main methods
3. Construct a class diagram data model (*adding 1...m, ORM*), *generate data model and construct Database*
4. Construct a class diagram in design (adding attributes and methods). **Using various patterns including DAO....for redesigning classes in your system**
5. Construct a package diagrams with 3-layer architecture for your systems.
6. Update code functions for Selling Staff: *update items, price... and push on web*
7. Code functions for customer shopping

Note: Team records what have been commented by the reviewers to update and correct

PROJECT stage 2: CORRECT design Document & code

TUESDAY 26/04/2022

THURSDAY 28/04/2022

1. Correct, upgrade and revise document
2. Update, extend code
3. Code all functions of the system

PROJECT stage 3: CORRECT design Document & code

TUESDAY 10/05/2022

THURSDAY 12/05/2022

1. Correct, upgrade and revise
2. Code all functions of the system