



Cairo University
Faculty of Computers and Artificial Intelligence
IS Department

Course code: IS332
Course: Analysis and Design of Information Systems
Under supervision: Dr. Iman Helal – Dr. Dina Ezzat
Academic Year: 2022-2023

Project Details

Project number *13*
Project title *Mega store corporation*

Corresponding *Dina Abbas*
TA\LA
Deliverable *4*

Team Details

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Phase 4: Use case Realization

Deliver a complete electronic report to deliver the following requirements using CASE/modeling tool(s):

1. Select **TWO** simple use cases using the provided Use case diagram (that have been developed during the analysis phase of your project)
 - a. Generate and draw a **partial class diagram** using **CRC cards** (show steps).

make order

1-CRC Card for Order Handler

Order Handler	
Create Order Take product	Order



2- CRC cards for controller and Order

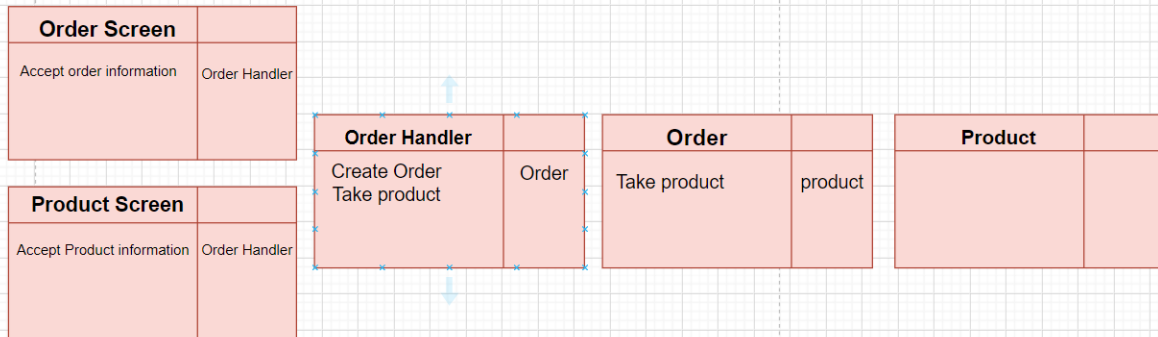
Order Handler		Order	
Create Order Take product	Order	Take product	product

3- CRC cards for the problem domain classes

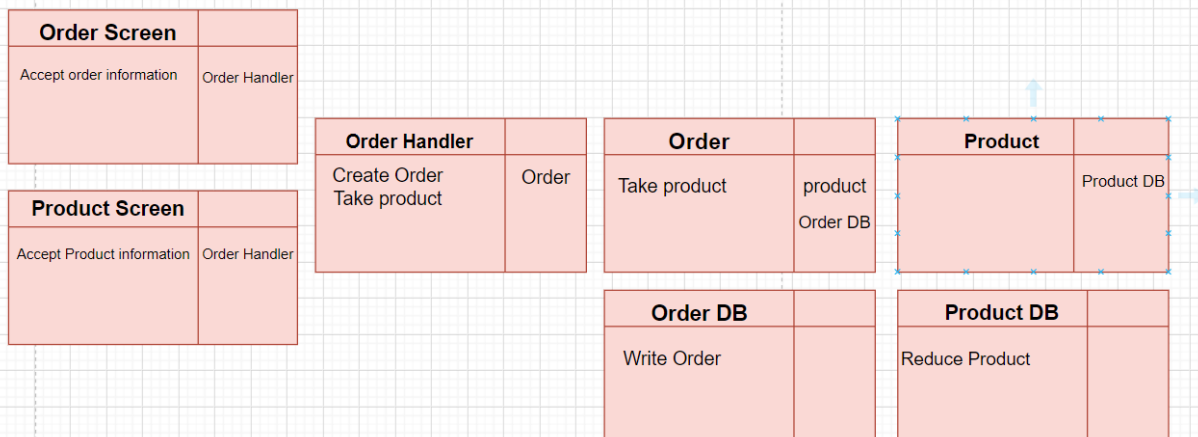
Order Handler		Order		Product	
Create Order Take product	Order	Take product	product		

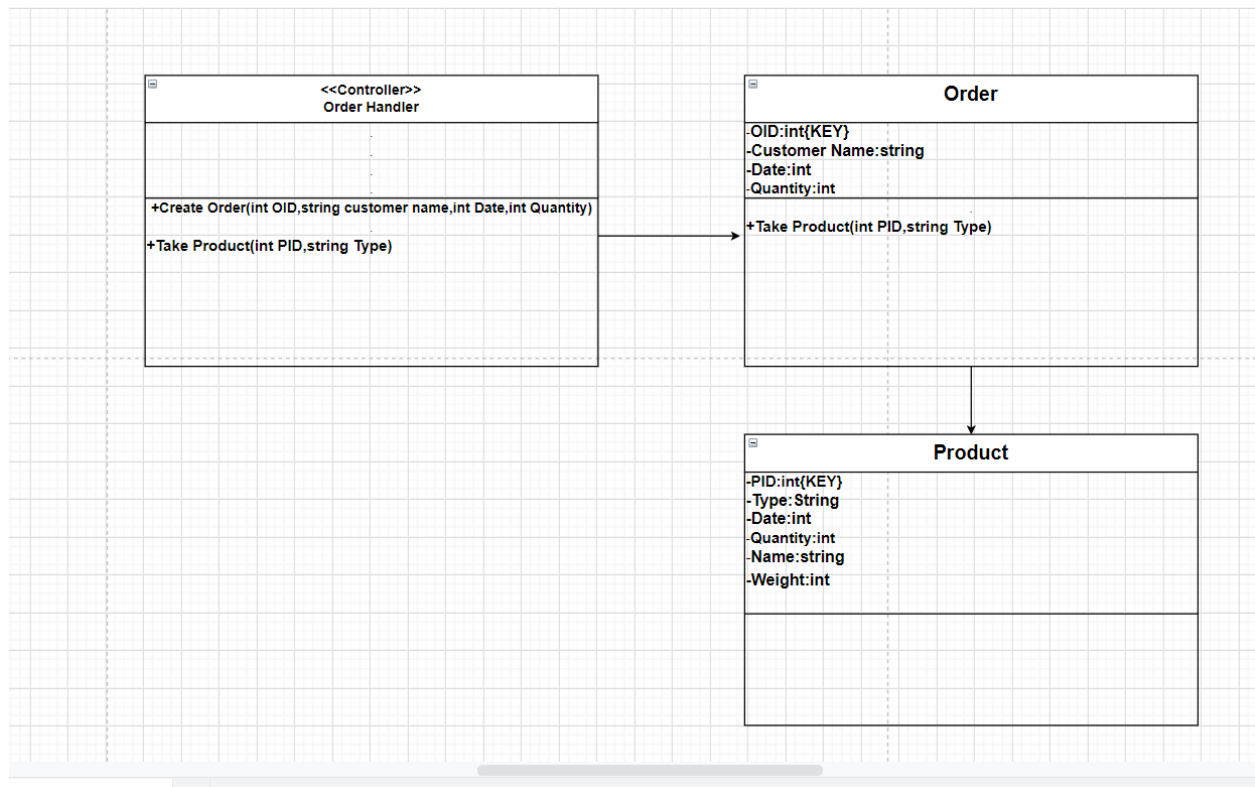


4- CRC cards for Make Order with input classes identified



5- CRC cards for Make Order with DB classes

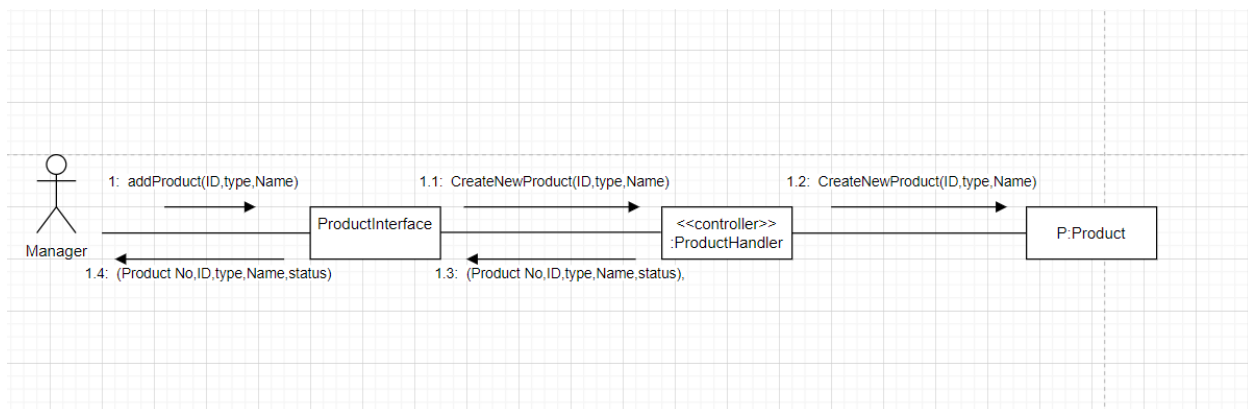




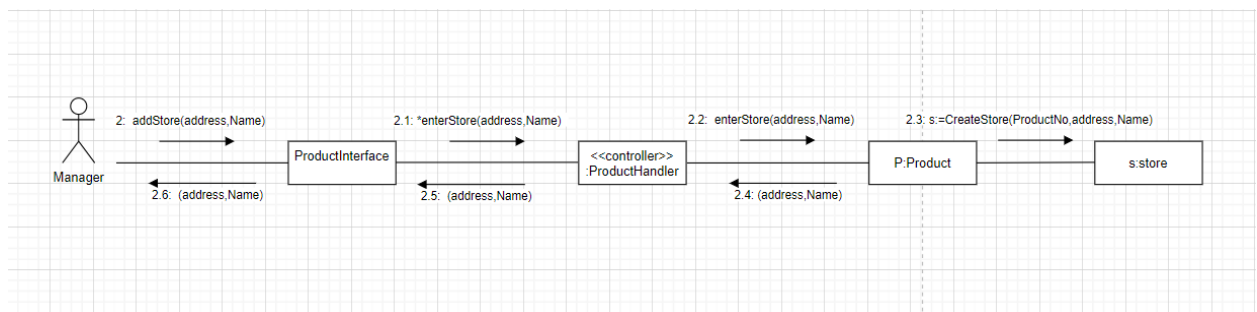


b. Generate and draw a **partial class diagram** using **communication diagram (show steps)**.

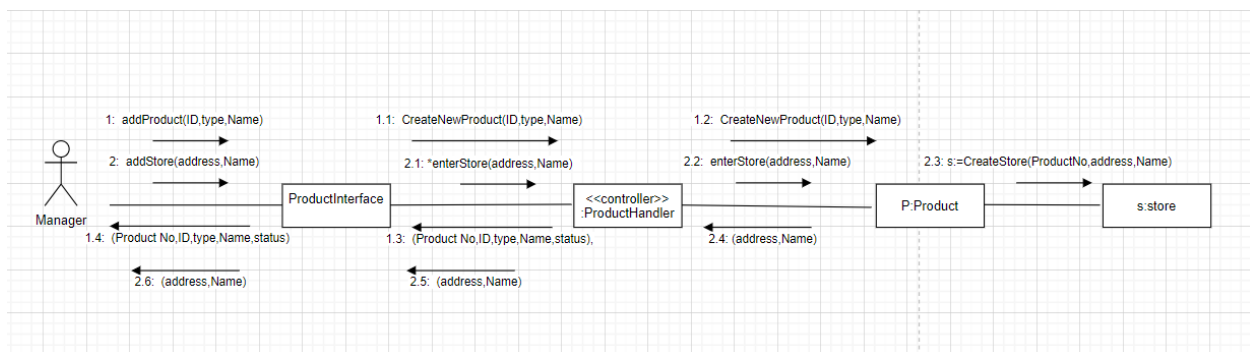
add product



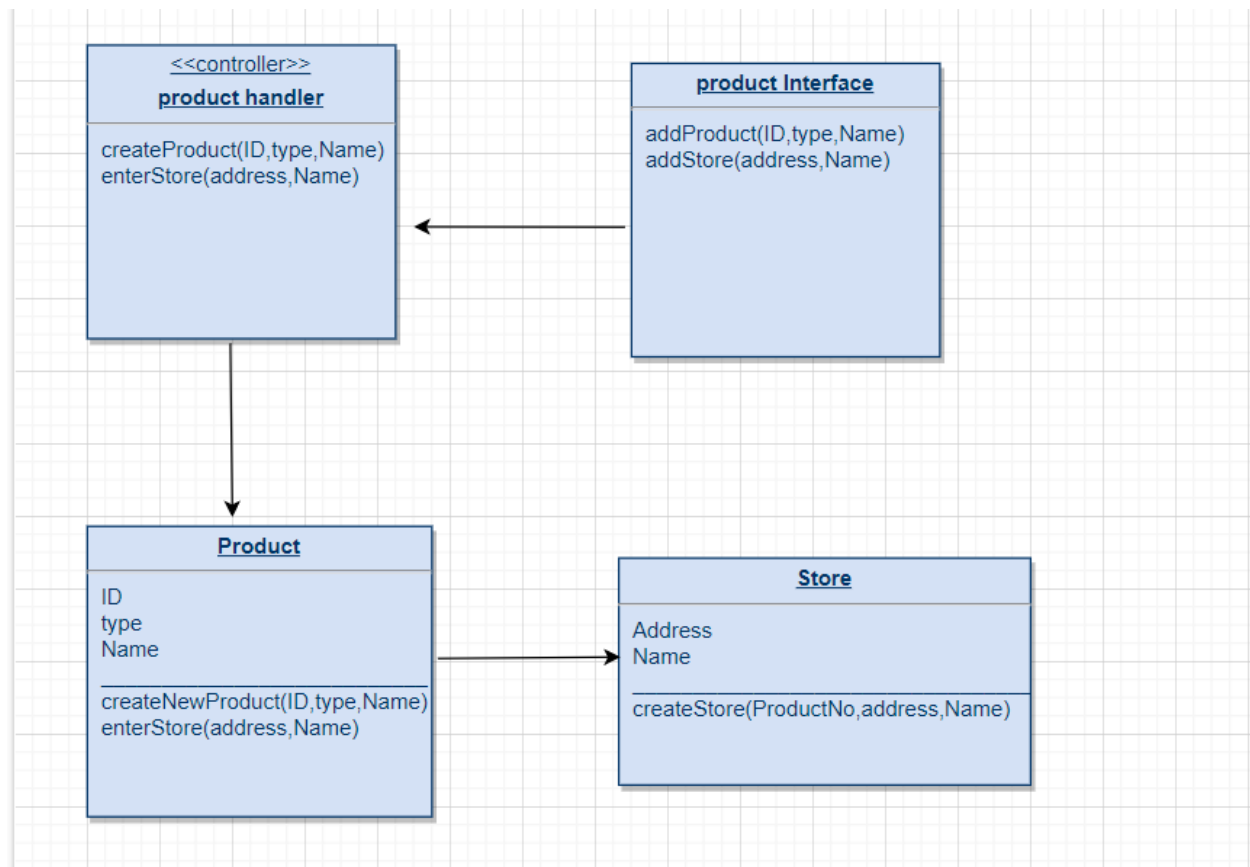
1. *CreateNewProduct message extended to all objects*



2.*enterStore message extended to all objects*



Final communication diagram for *add product* use case



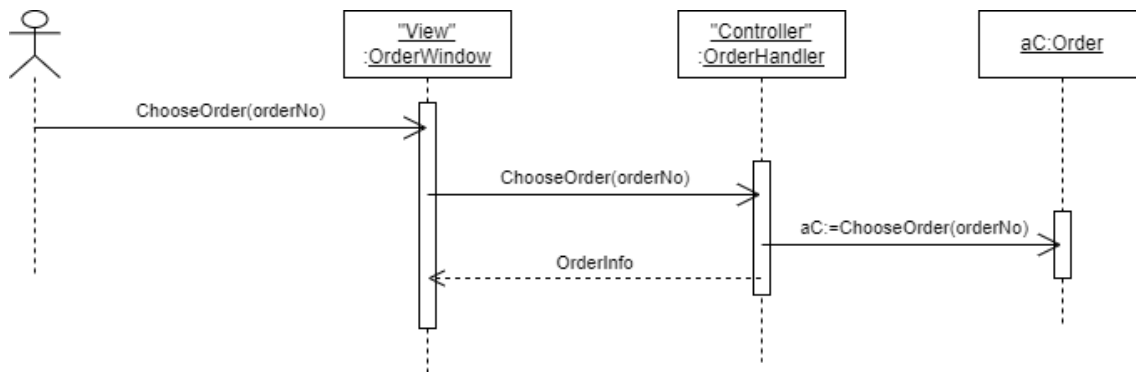
Partial class diagram for *add product* use case.



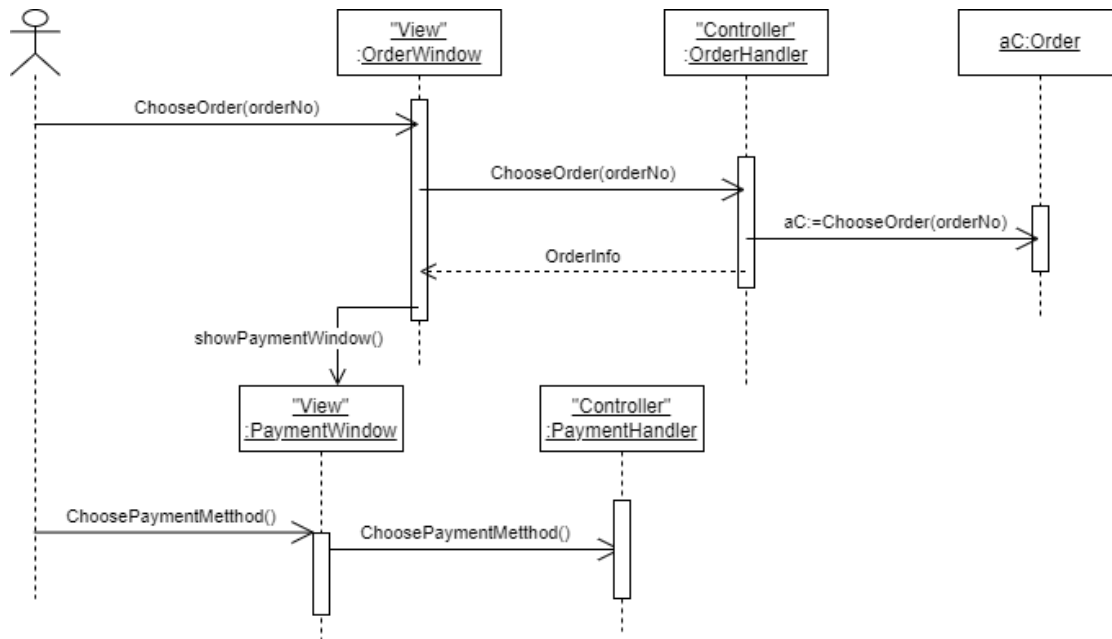
2. Select two complex use cases:

- Generate and draw a **partial class diagram** using **multi-layer sequence diagram** (show steps).

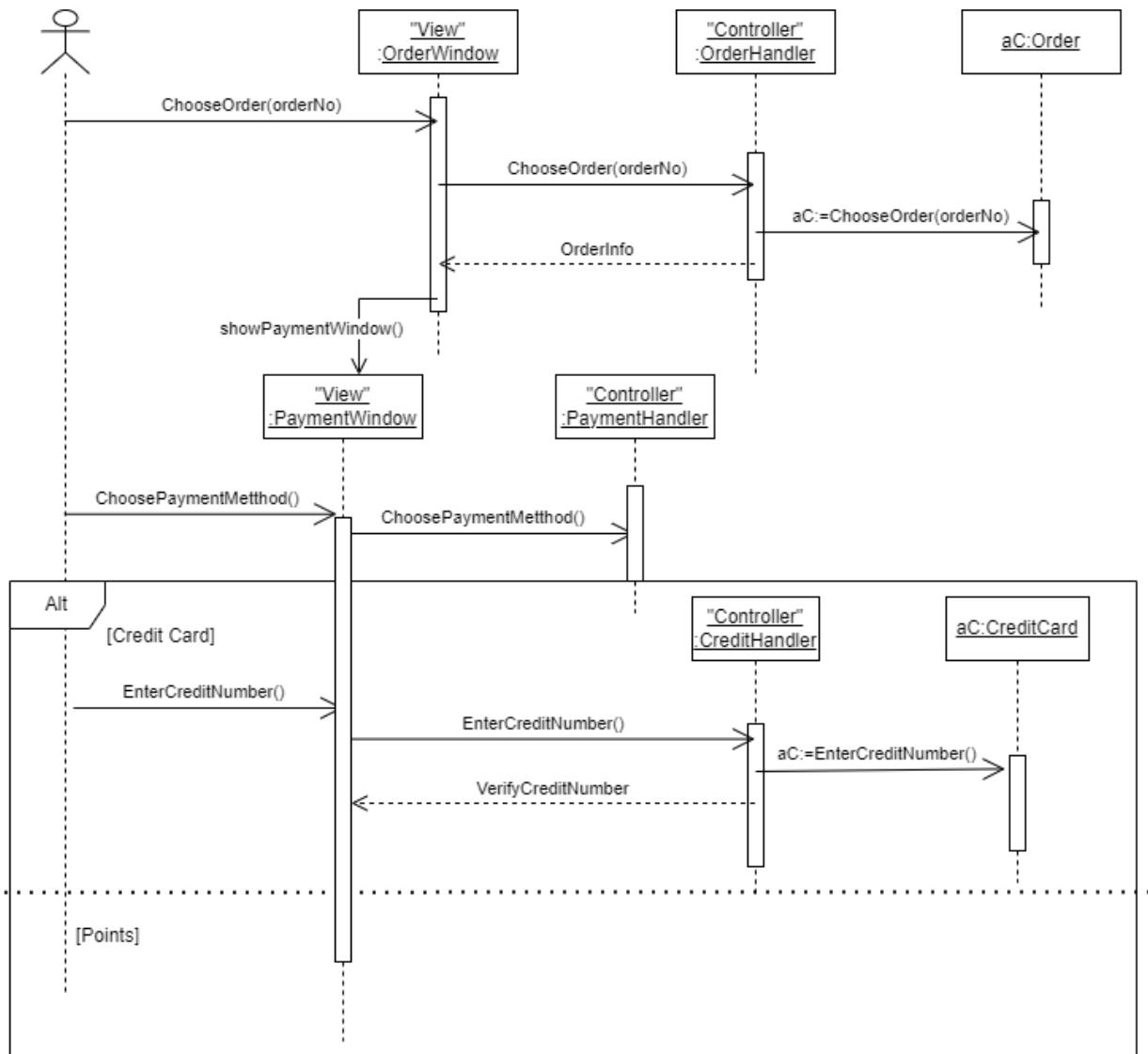
Pay for product



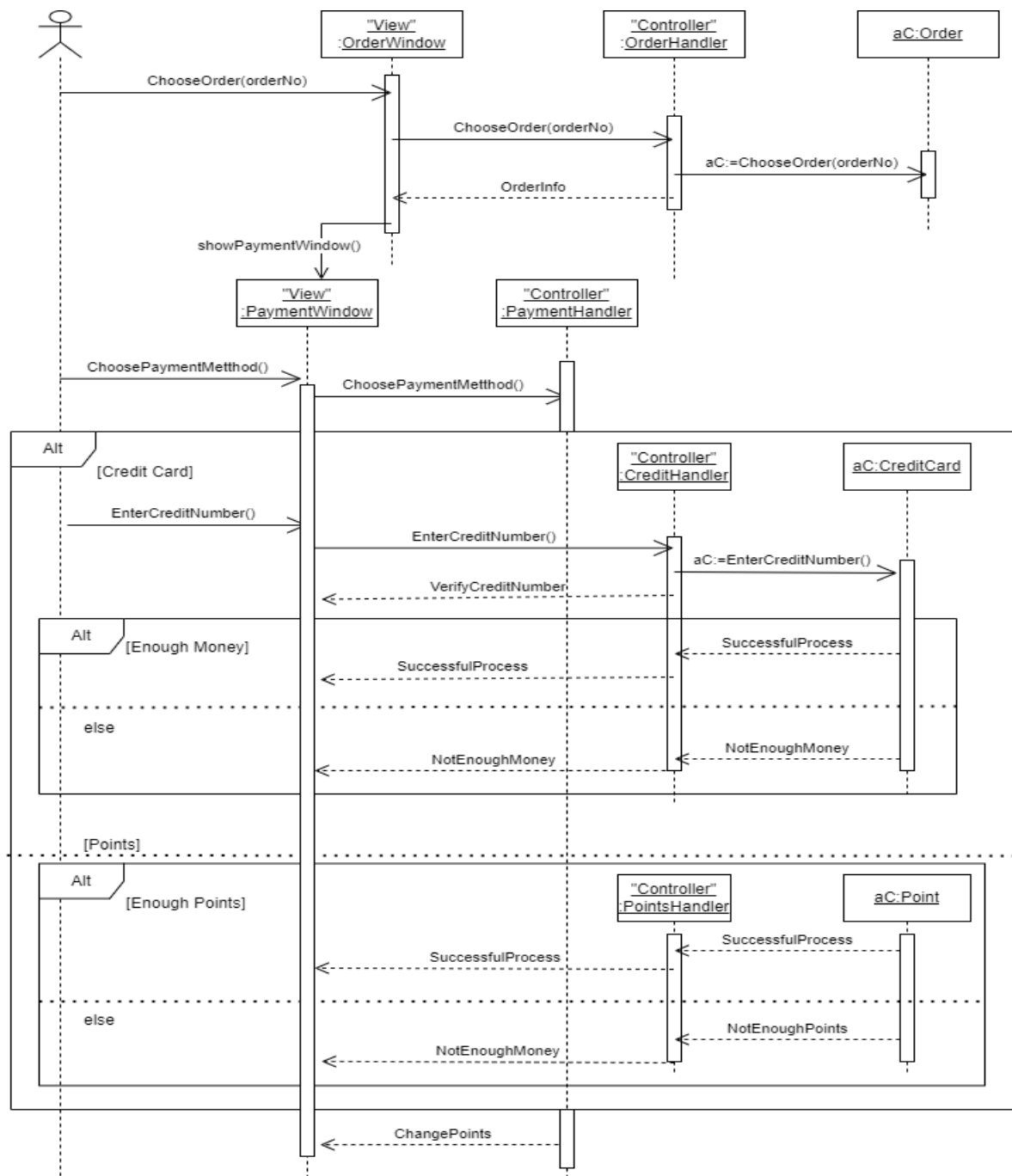
1-choose order to pay for



2-choose payment method



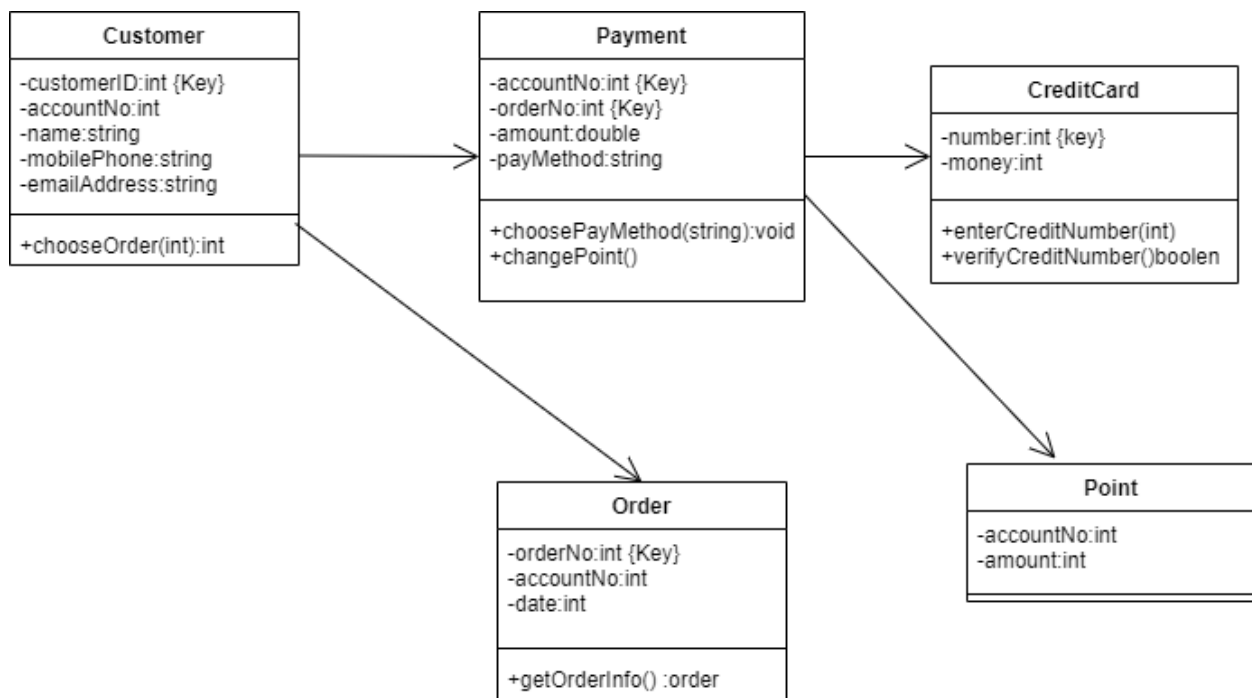
3- if choosing credit card method



4- if choosing point method and changing point



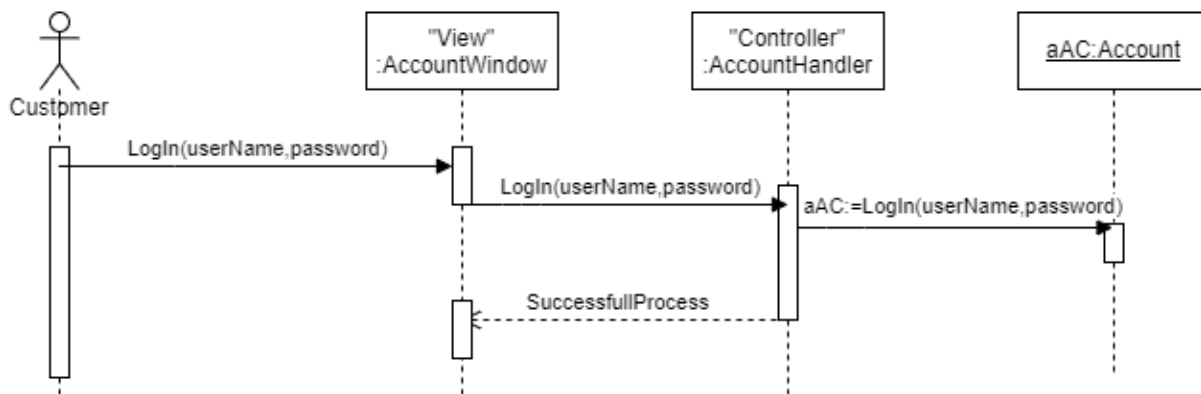
Partial class diagram





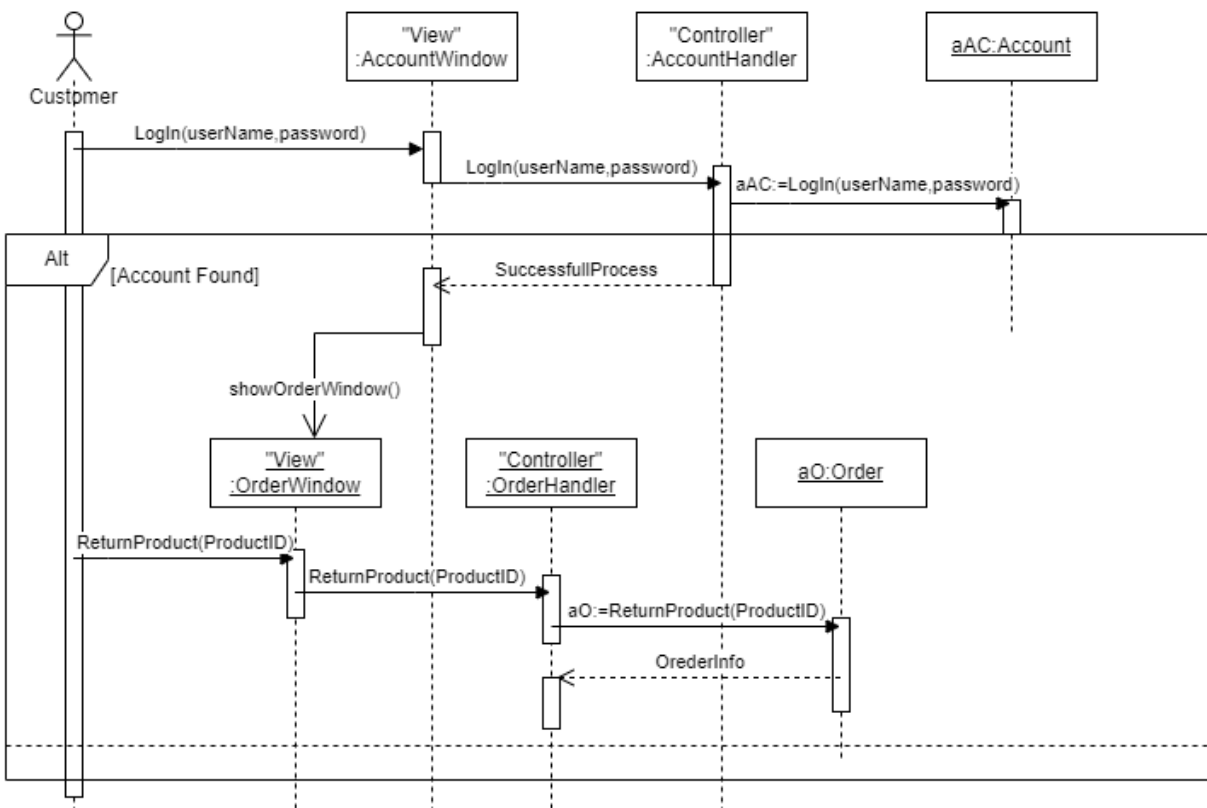
Return a product

1- Customer login to his account by Entering a valid data



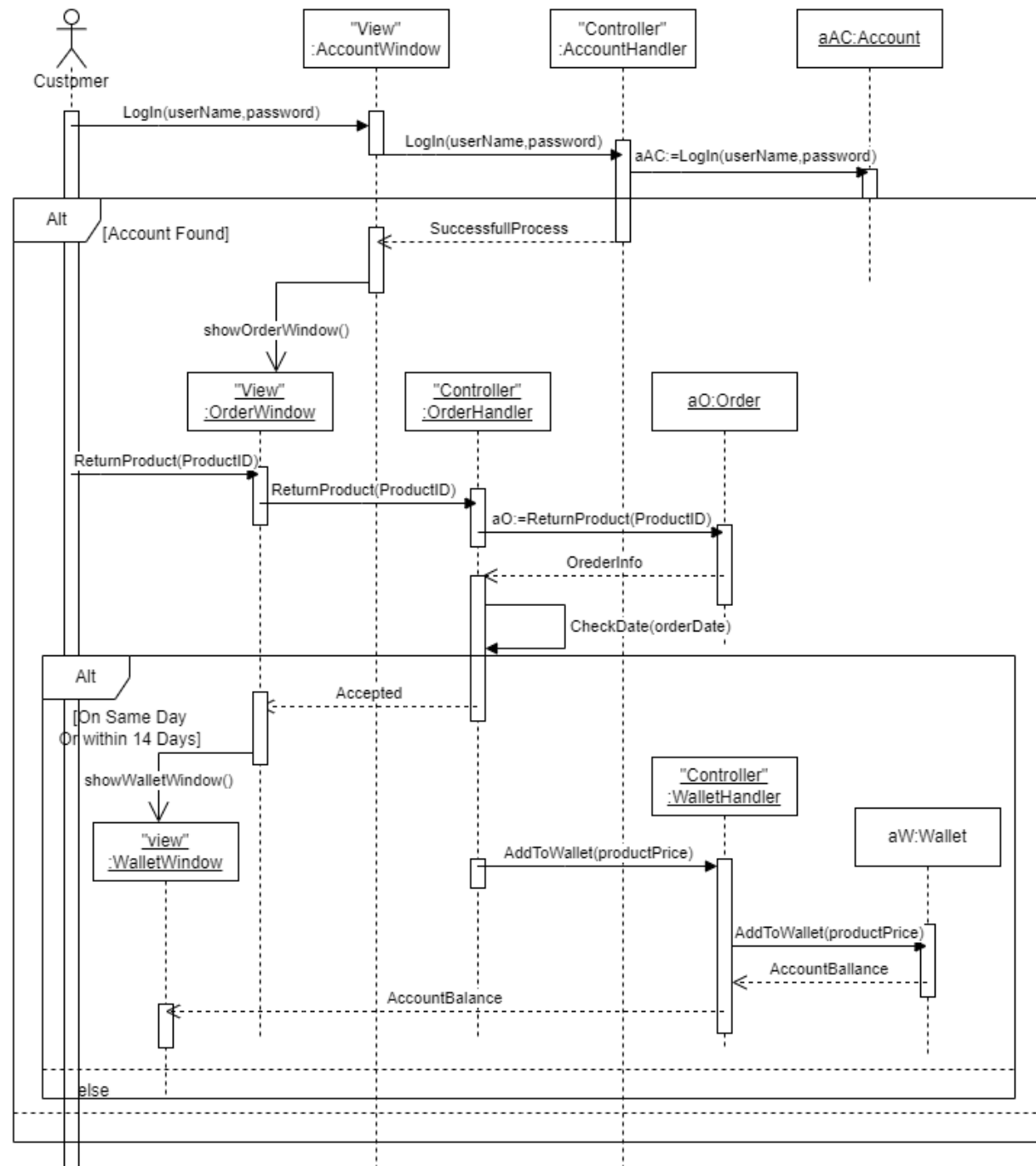


2- Customer press return a product



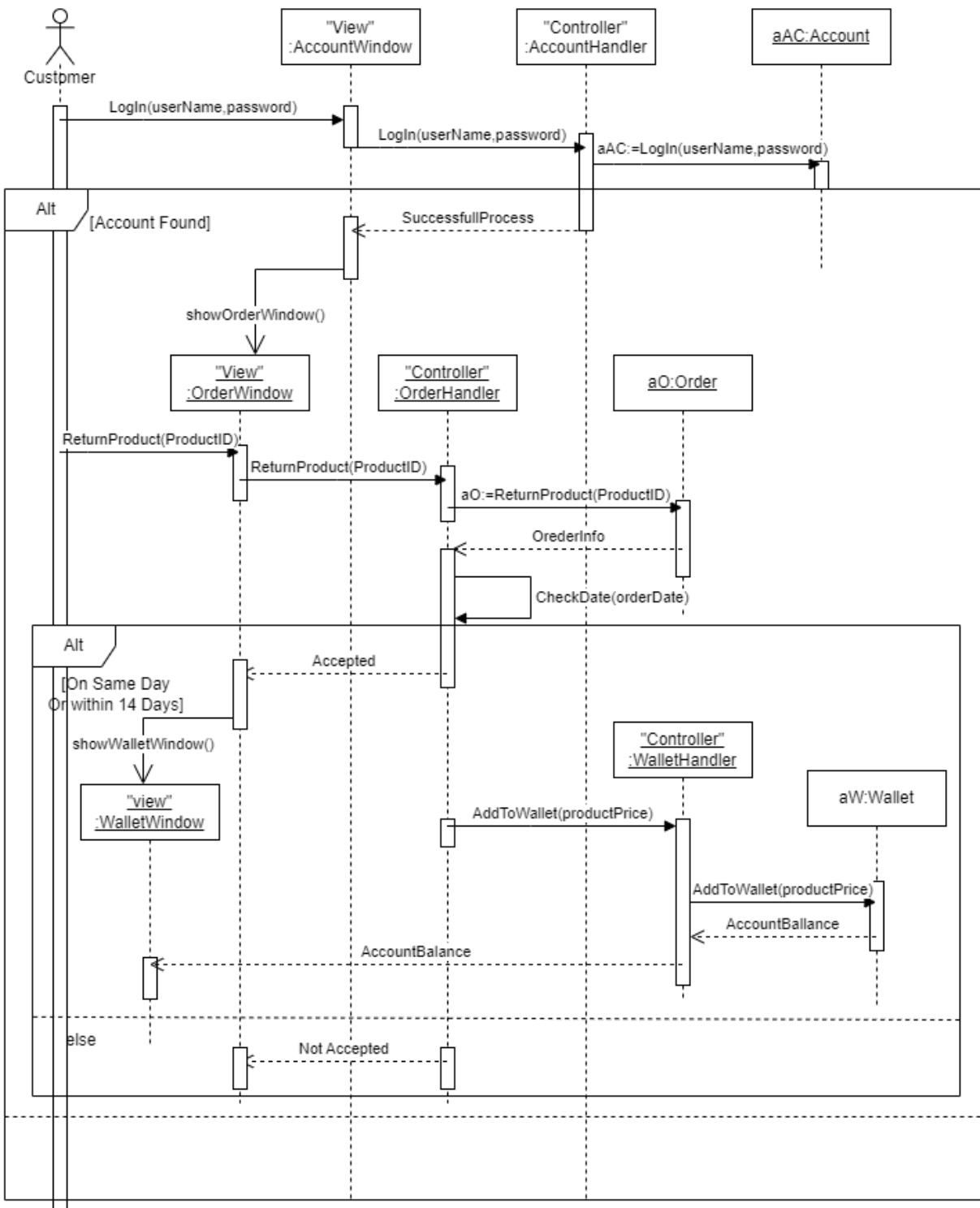


3- The system check if the order date on same day or within 14 day



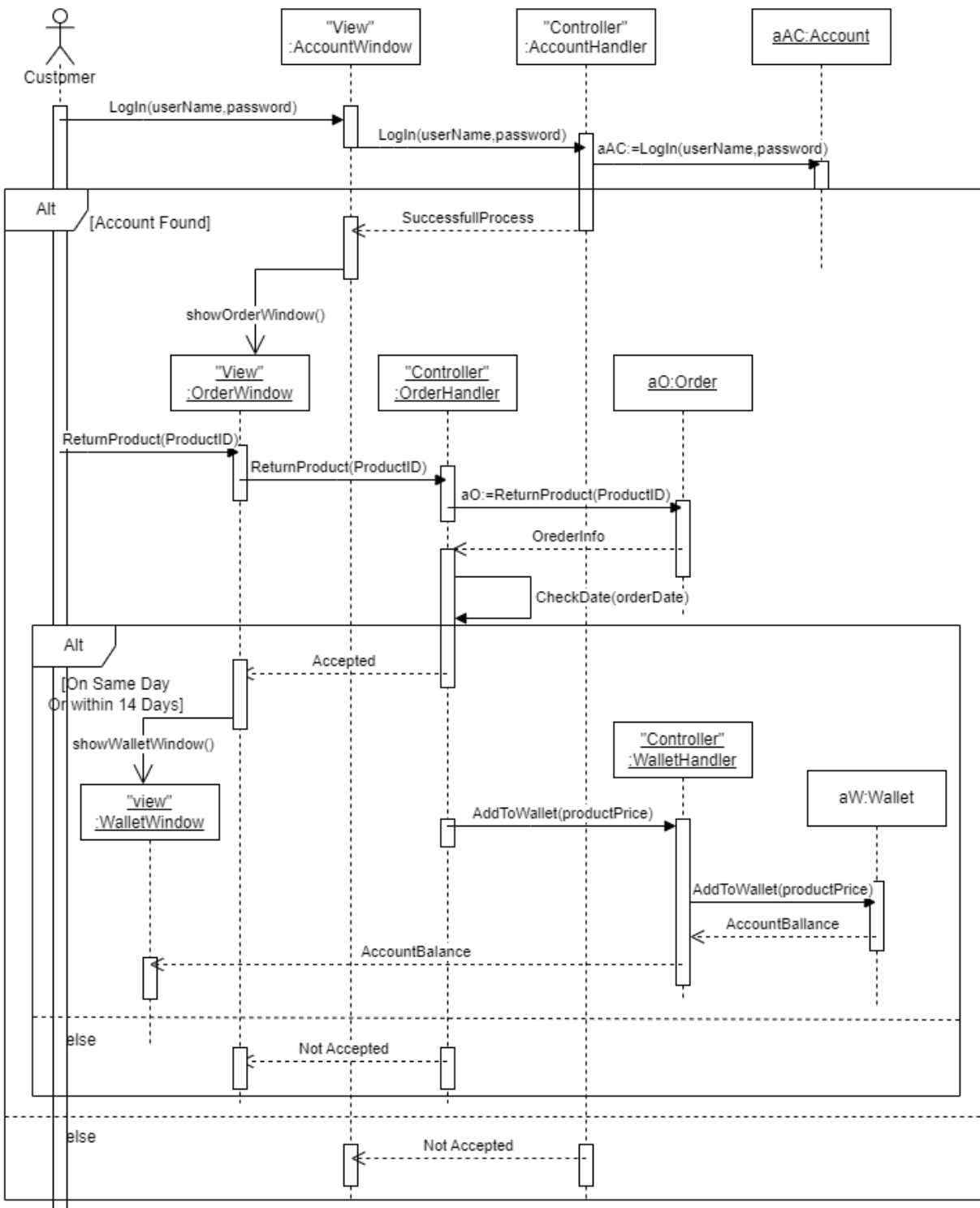


4- if order date is greater than the condition



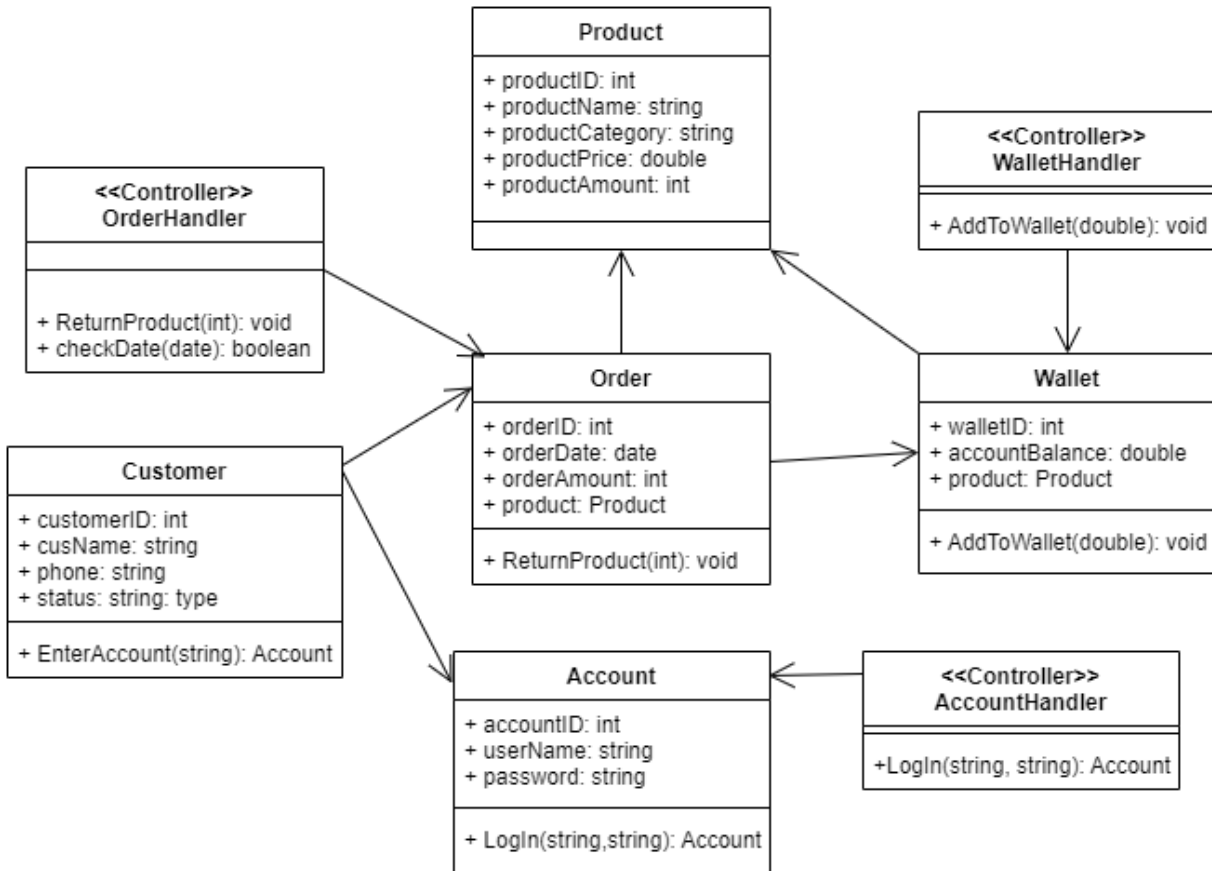


5- If Customer enters invalid data



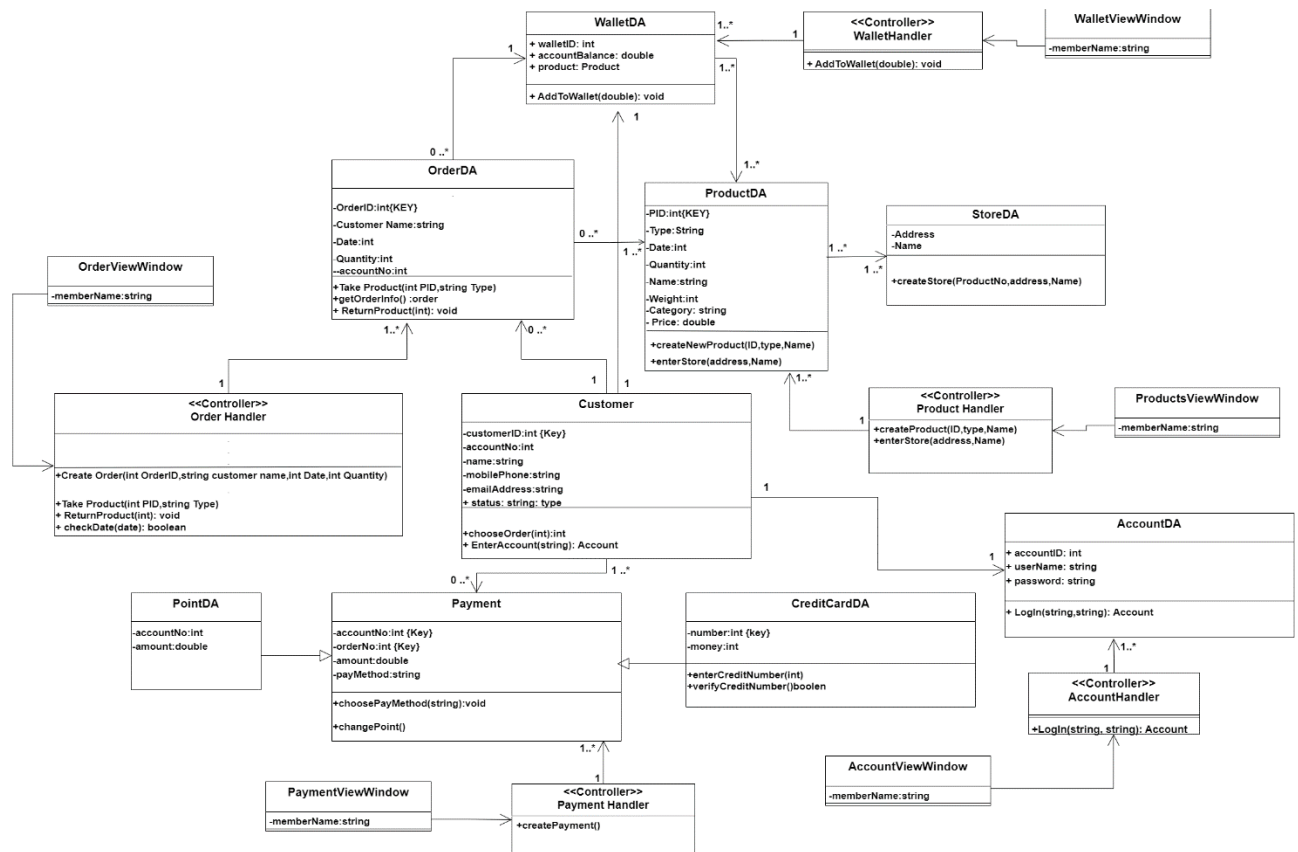


Partial class diagram





3. Generate and draw **final-cut class diagram** output from 1.a, 1.b, and 2 [Fully-defined attributes and methods, navigation, multiplicity].





4. Generate and draw **package diagram** from the resulted detailed class diagram in 3.

