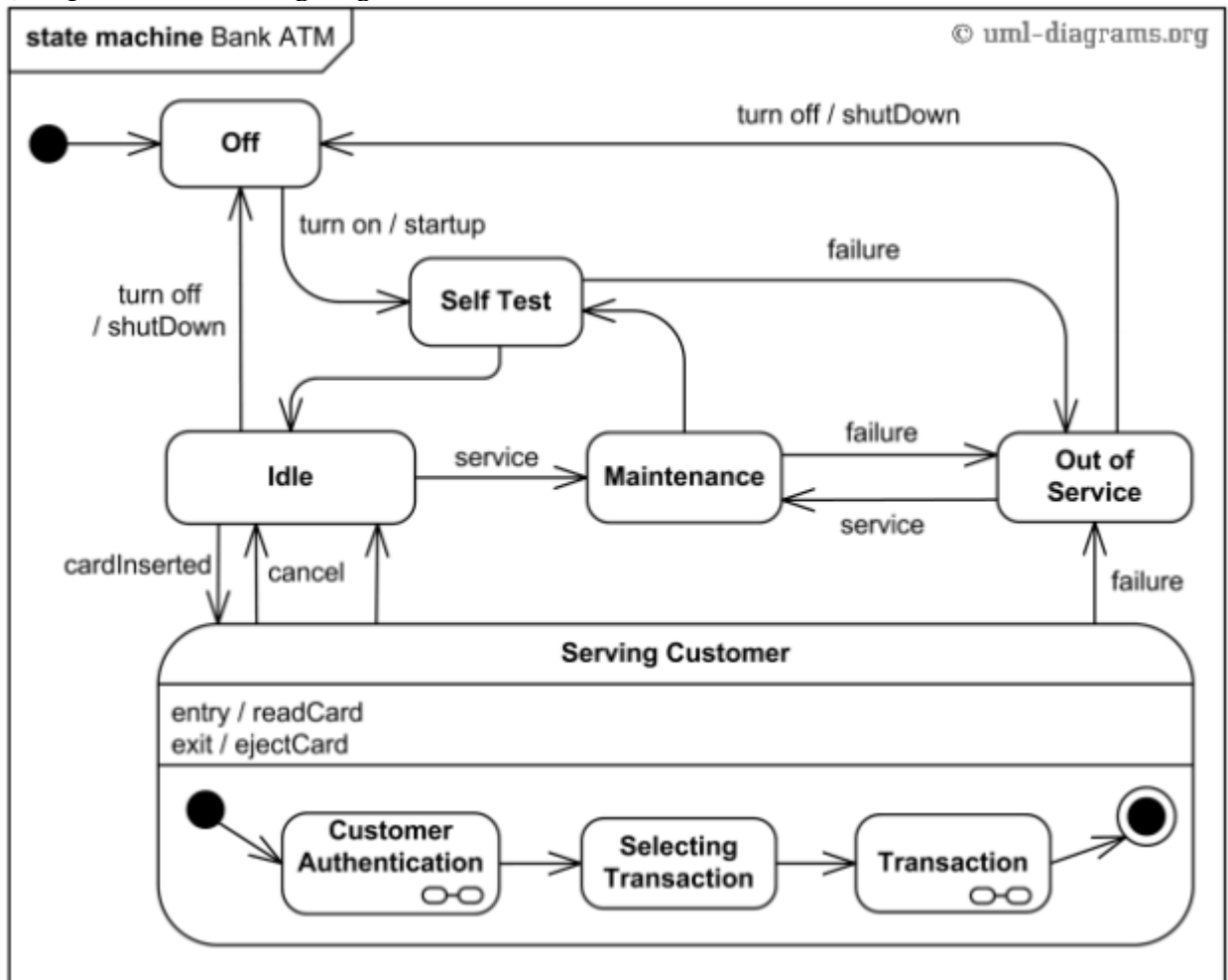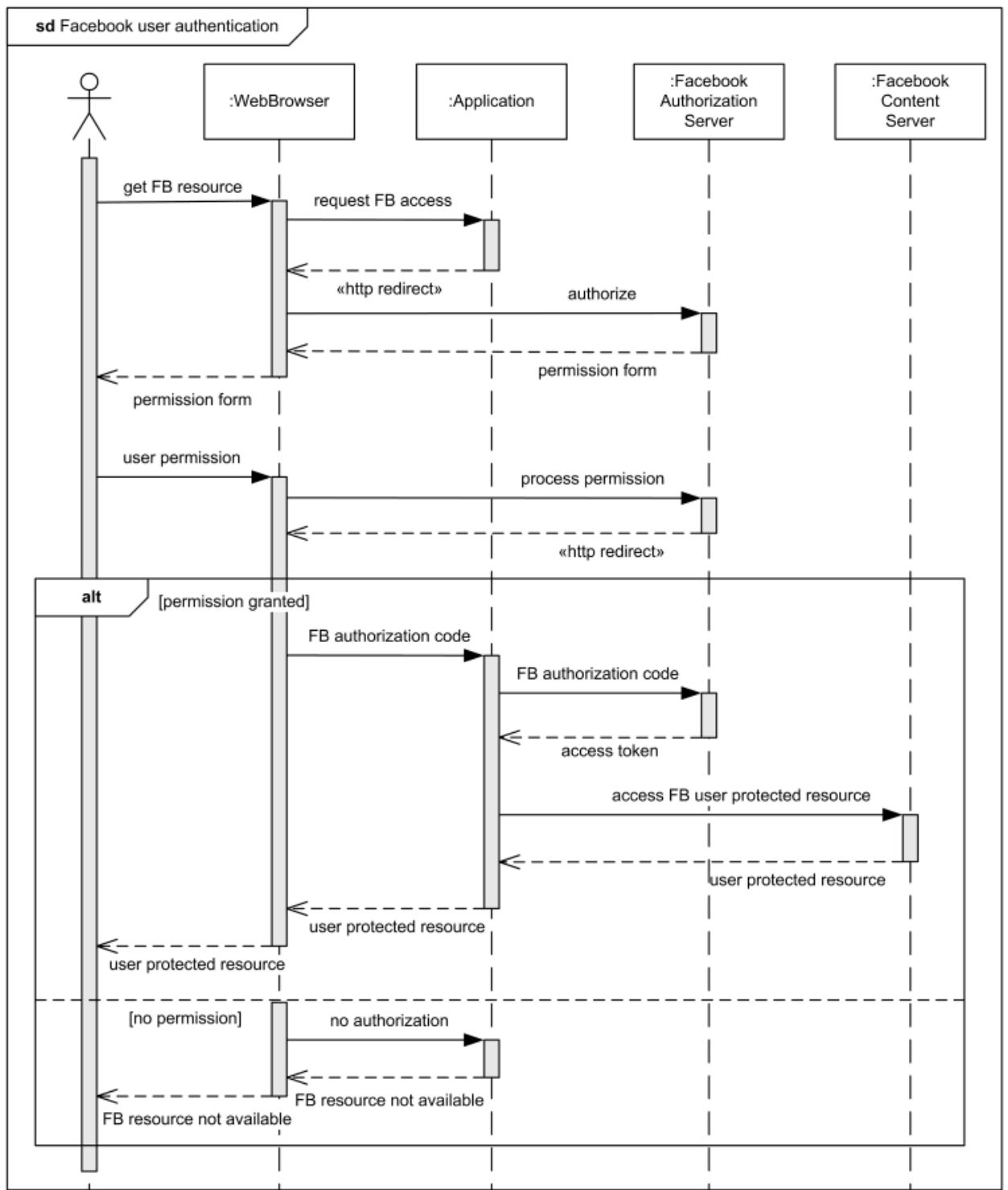# Lesson plan (unit 5)

**1. Theory (Resources OOA&D)**
Read the books chapters 5.1-5.5
Answer the following questions:
1. What is a message at an interaction diagram?
2. What are differences between a sequence diagram and an object diagram?
3. How an interaction diagram relates to a class diagram?
4. Explore the following diagram:



5.1. What type of diagram is it?
5.2. What elements are represented here?

6. What are states and transitions?
7. Explore the following diagram
7.1. What type of diagram is it?
7.2. What scenario are captured by this diagram?
7.3. What means alt frame that is represented here?

sd Facebook user authentication

Actor — :WebBrowser — :Application — :Facebook Authorization Server — :Facebook Content Server

get FB resource → request FB access → «http redirect» → authorize → permission form → permission form → user permission → process permission → «http redirect»

alt [permission granted]
FB authorization code → FB authorization code → access token → access FB user protected resource → user protected resource → user protected resource → user protected resource

[no permission]
no authorization → FB resource not available → FB resource not available

**Piazza activity:**
Post your answers to a new follow-up discussion.

## 2. Practice
### Implementing the technique of use cases
In 6.6 Fully Dressed Example: Process Sale (chapter 2.4, pp. 50-52) contains the description of "Process Sale" use case.
2.1 Identify concept classes from the description.
2.2 Create a sequence diagram according to the basic flow in the description using Visual Paradigm CE.
**Piazza activity:**
Post your pdf-file to a new follow-up discussion.