*Full name:*

*Login:*

*Result:*

**Use Case: Services Order**

Actors: Customer, External Activation System, PayGate

Goal: Activation of ordered services and payment

Precondition: User is signed in and has opened detail of supported smart card

Main scenario:

1. System opens a list of products available for the chosen smart card.
2. Actor Customer browses the products and selects them.
3. System puts the selected products into the shopping basket.
4. Actor Customer can browse more products (jump back to step 1 of main scenario) or finalize the order (continue to next step - 5).
5. System redirects the actor Customer to external PayGate for the payment. Actor Customer pays at the PayGate. PayGate returns success to the processed order.
6. System checks the order, finalizes it and sends an activation signal to external Activation System.
7. System informs the Actor Customer about the activation result.

Alternative scenarios:

5. Payment at PayGate failed:

5.1 System receives the failure details from PayGate

5.2 System informs the Actor Customer about the error

5.3 System ends the use case

**Analytical notes:** The object representing the order must be created by object representing the shopping basket. Communication to all external systems and users must be asynchronous. Object representing the order must be destroyed after all processing’s done.

**Tasks:**

1. Identify objects suitable for the system communication model – 1 point
2. Draw a sequence diagram of the communication based on the use case above and analytical notes above – 5 points
3. Model alternative scenarios into the diagram based on alternative scenario – 2 points
4. Define terms “Object” and “Class” – 2 points