**Full name:**

**Login:**

**Result:**

**Senior analyst requirements:**

* Following objects were identified in the proposed system: customers, smart cards, contracts, services, contract template;
* We have determined following behavior and attributes:
  + Customer – full name, ID; create a new contract;
  + Contract – date created;
* Following relations were determined:
  + Customers may have more contracts but a single contract may have only one customer;
  + Contract consists of services; services are not destroyed in case of contract deletion;
  + Contract is a special type of Contract template (it is its specialization)
  + Customer owns many smart cards, the role of the card is public and is named “owned card”
  + Contract is issued on a smart card; one contract is on one card
* Services are parts of another object: product lists. In case of product list deletion, the services have to stay in the system.

**Tasks:**

1. Draw all classes into a class diagram based on requirements from senior analyst including all attributes and methods – 2 points
2. Draw into the diagram all relations among the classes based on requirements of senior analyst – 6 points
3. How would you change a relation between product list and services so the services would be destroyed in case of product list deletion? – 2 point