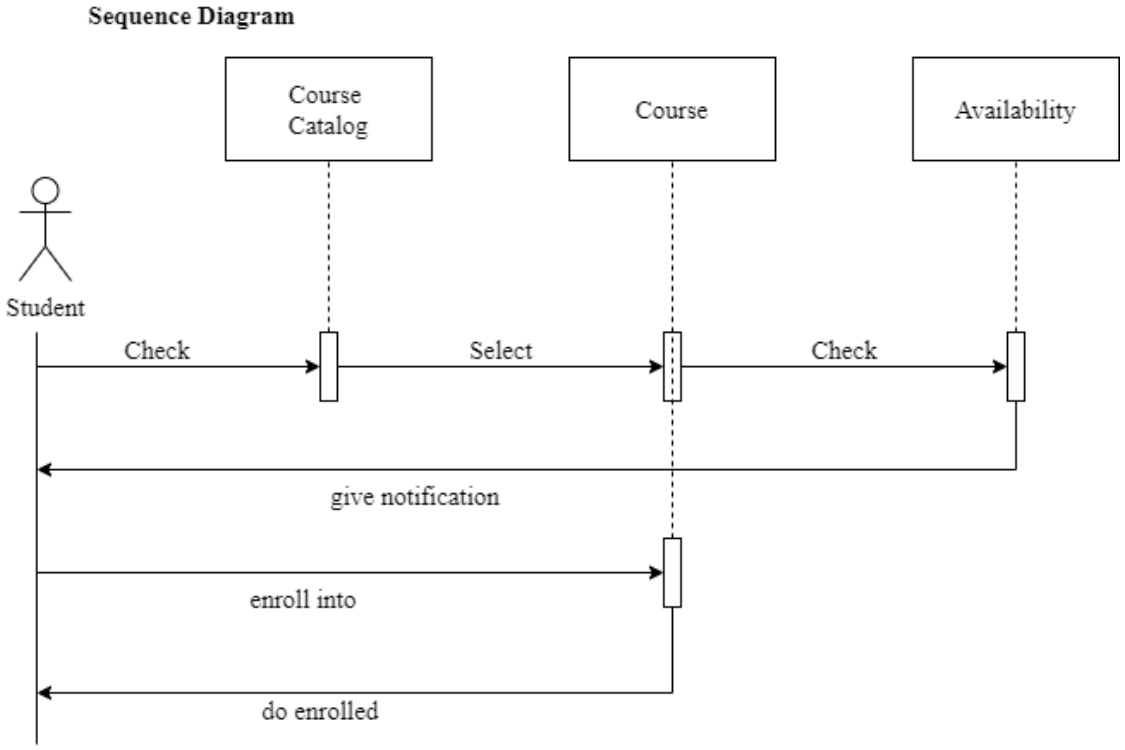
Software Engineering Assignment #02 – Rymbayeva Anelya

5.5 Develop a sequence diagram showing the interactions involved when a student registers for a course in a university. Courses may have limited enrollment, so the registration process must include checks that places are available. Assume that the student accesses an electronic course catalog to find out about available courses.

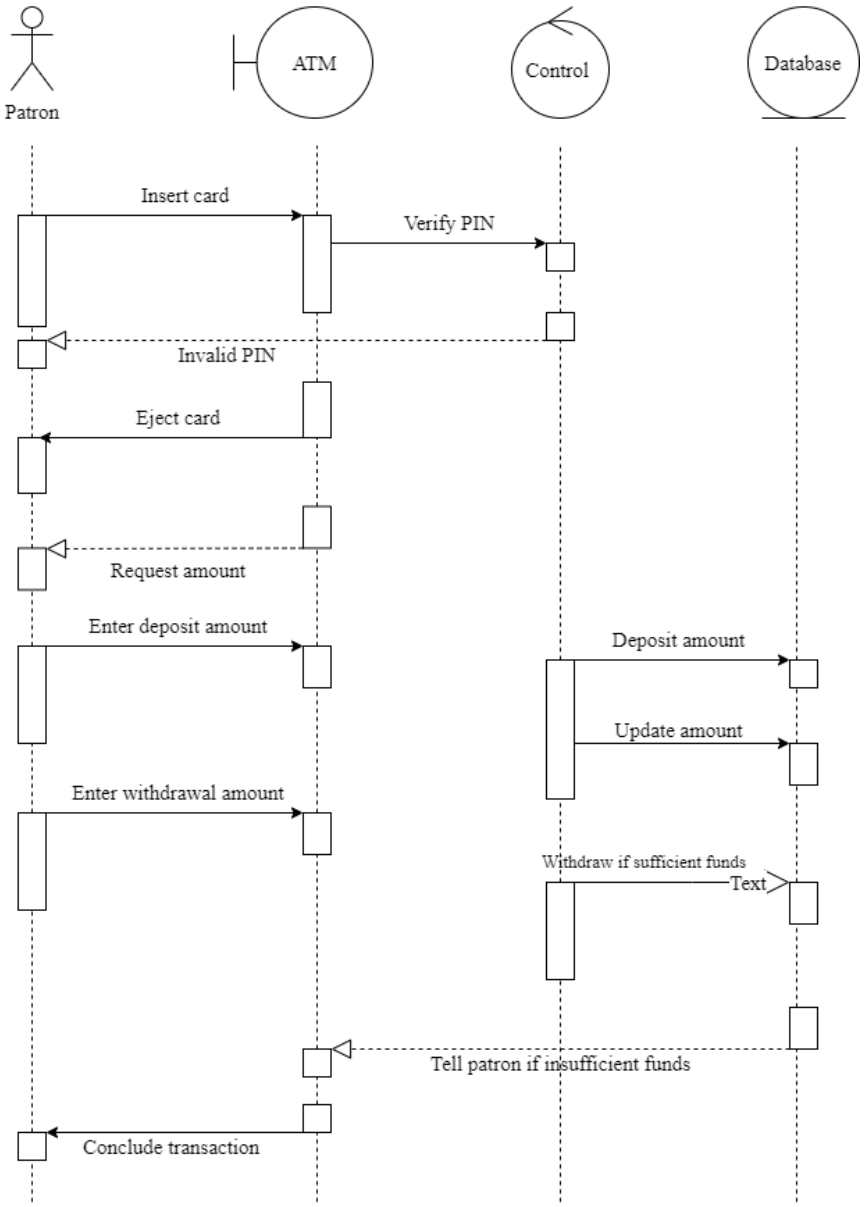
There are 3 modules:

One main actor: Student. The modules are: course catalog, course, availability. These all modules do interact with each other by making use of many methods and functions. All these are given below in the picture:



5.8 Draw a sequence diagram for the same system. Explain why you might want to develop both activity and sequence diagrams when modeling the behavior of a system.

Sequence Diagram for the ATM ssystem:



Activity diagrams may be used to model the processing of data, where each activity represents one process step. Sequence diagrams are used to describe the interactions between user the system being designed and users/other systems. Behavioral models are used to describe the dynamic behavior of an executing system. This can be modeled from the perspective of the data processed by the system or by the events that simulate responses from a system. Hence, when modeling the behavior of a system, we might develop the activity and sequence diagrams.