CL309
Object Oriented Analysis & Design Lab
Lab#10 - UML with UML Design Tools

November 12, 2019

Contents

1 UML Design Tools

In this lab, we are going to use Astah Professional UML Design Tool, formerly known as JUDE. Follow the instructor for the tutorial from this website.

2 Elaboration of the use of Astah Professional

Follow the Instructor

3 Practice Session

Since you have learned how to make

1. Use case diagrams

2. Class Diagrams

3. Sequence Diagrams

4. Communication Diagrams

5. State Diagrams

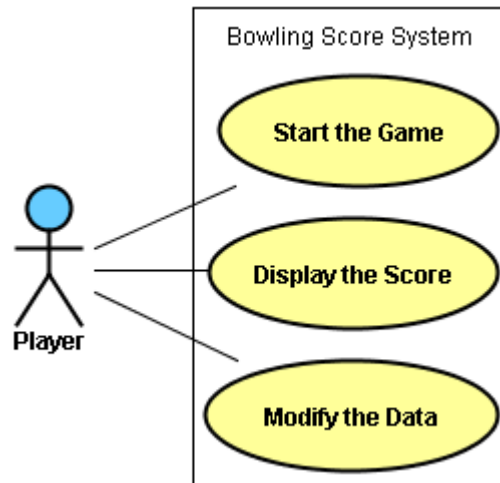Practice the following diagrams in the lab using the given tool.
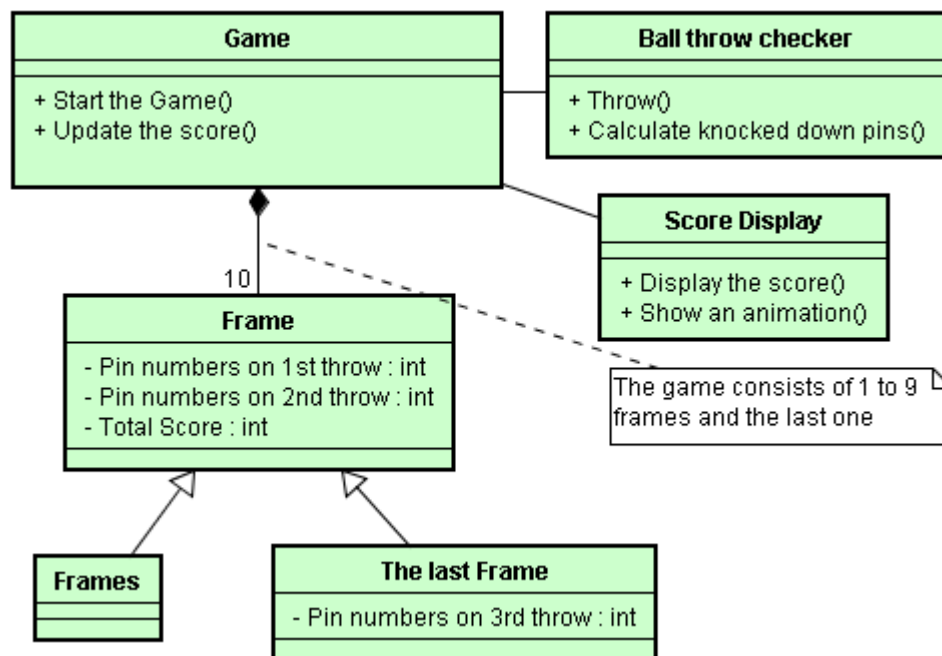
Figure 1: Use-case Diagram
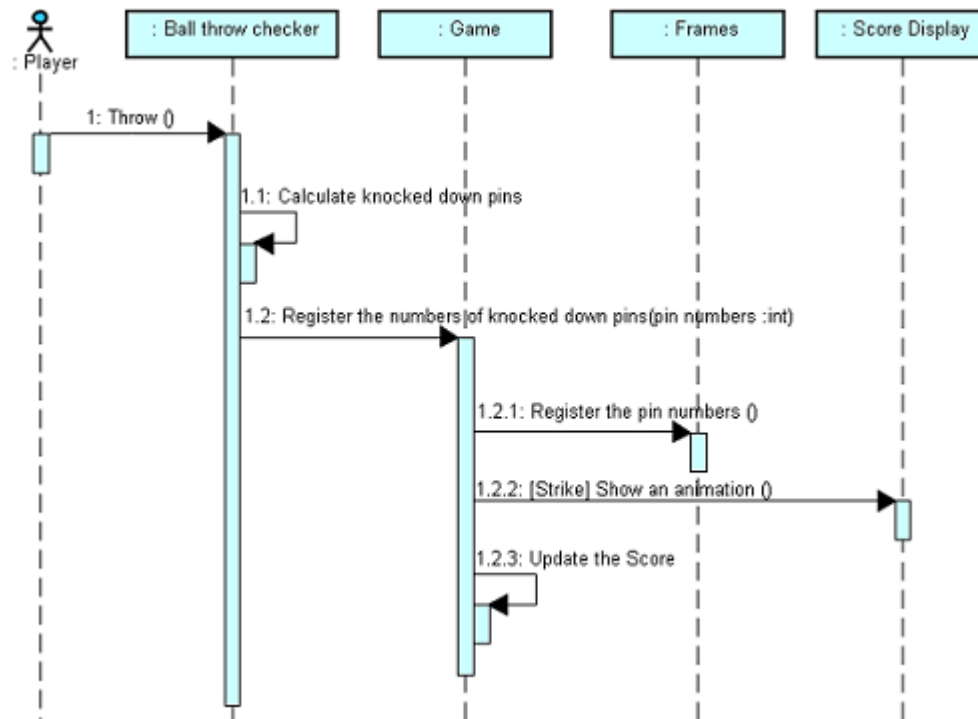

Figure 2: Class Diagram

Figure 3: Sequence Diagram

: Player : Ball throw checker : Game : Frames : Score Display

1: Throw ()

1.1: Calculate knocked down pins

1.2: Register the numbers of knocked down pins(pin numbers :int)

1.2.1: Register the pin numbers ()

1.2.2: [Strike] Show an animation ()

1.2.3: Update the Score

Figure 3: Sequence Diagram

Figure 4: Communication Diagram

2: Calculate knocked down pins()

1: Throw()

: Player

: Ball throw checker

3: Register the numbers of knocked down pins(pin numbers :int)

: Score Display

: Game

5: [Strike] Show an animation()
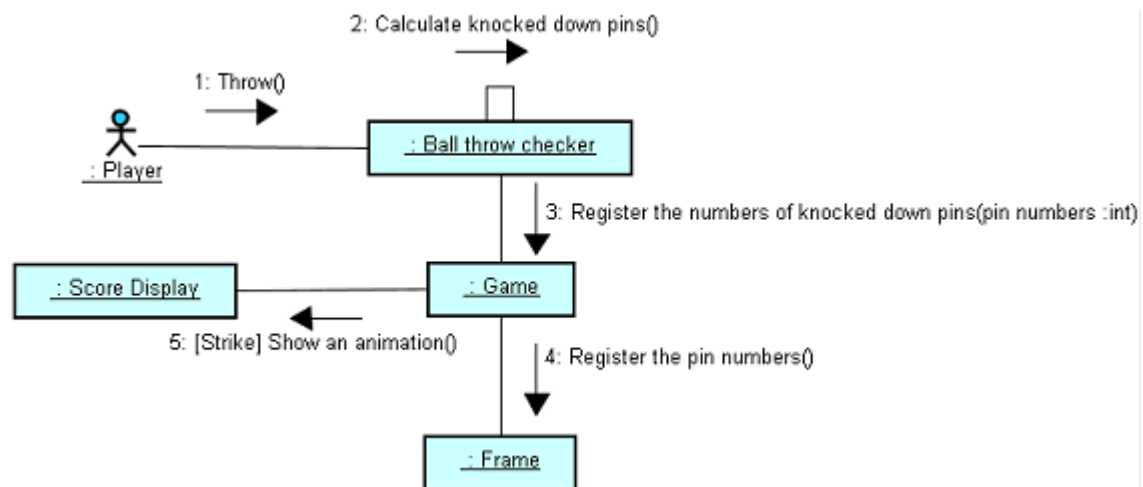
4: Register the pin numbers()

: Frame

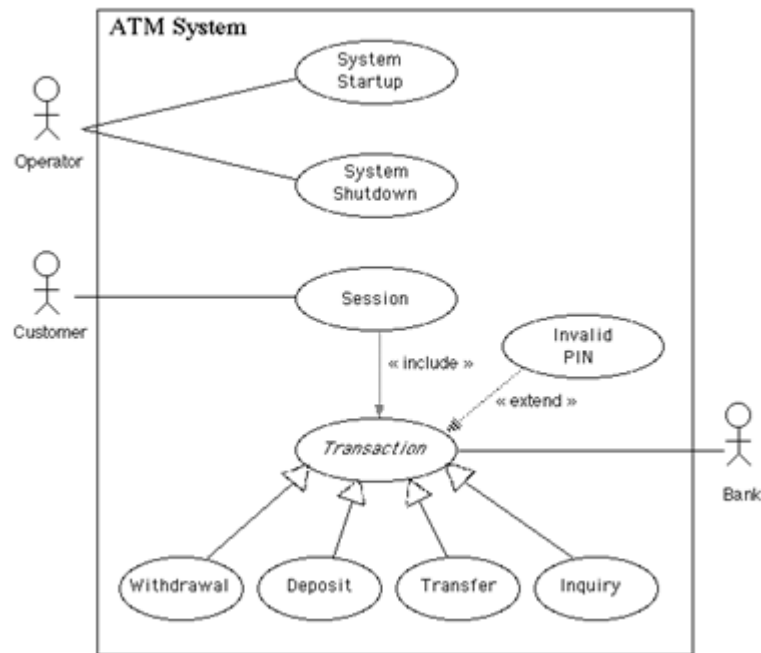Figure 4: Communication Diagram

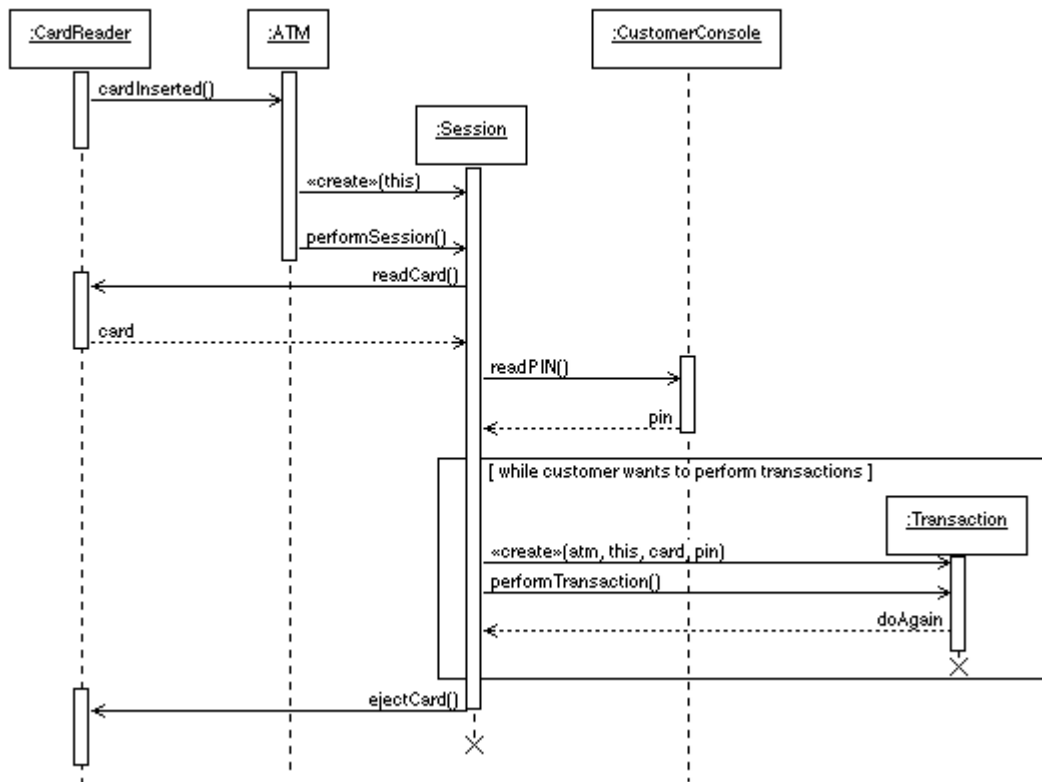Figure 5: ATM Use Case Diagram

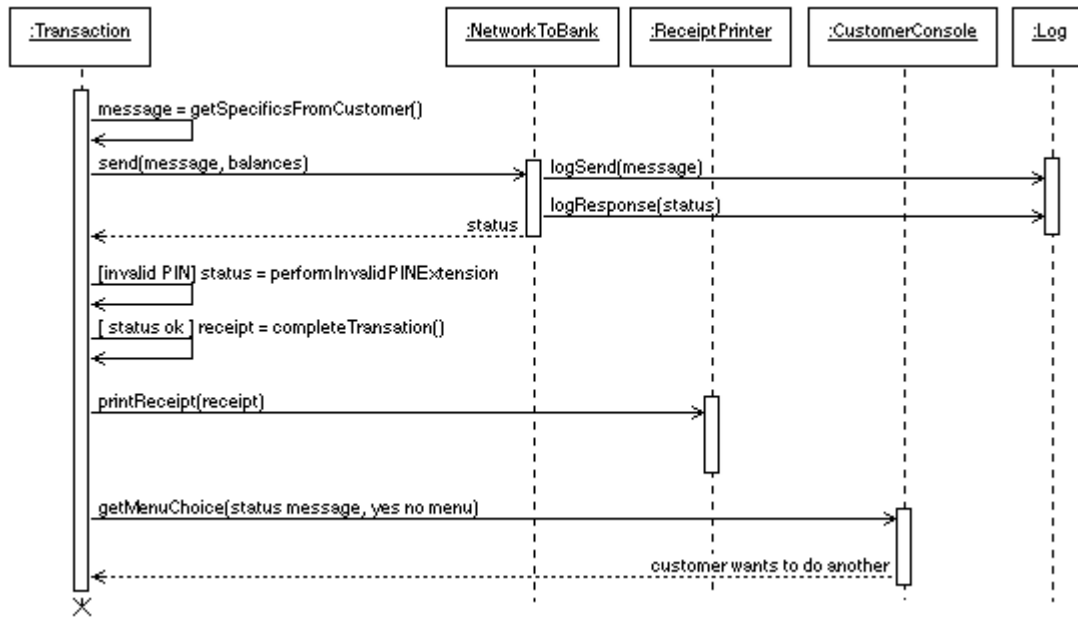Figure 6: ATM Session Sequence Diagram

Figure 7: ATM Transaction Sequence Diagram

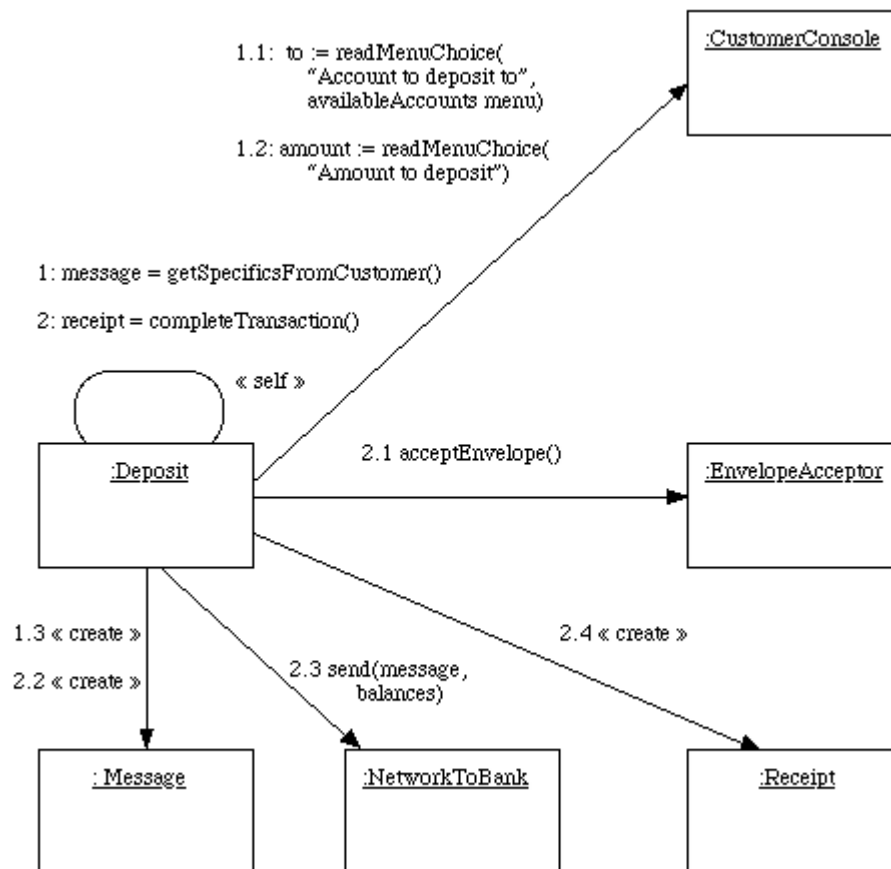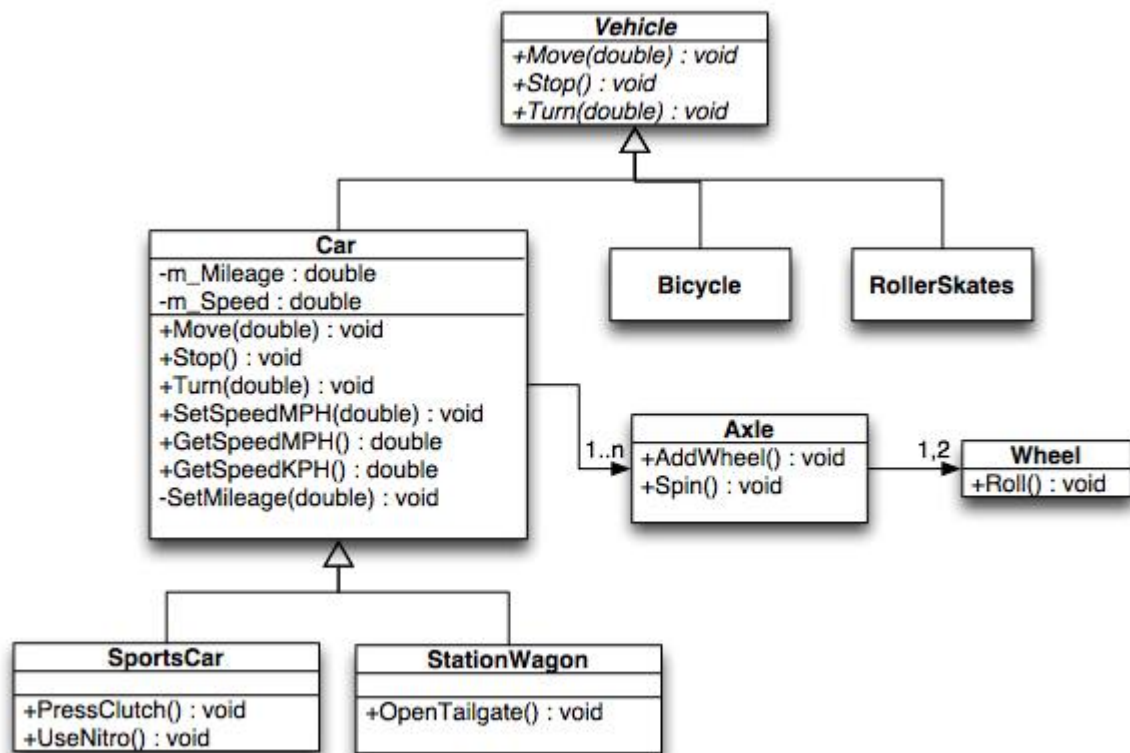Figure 8: ATM Deposit Transaction Collaboration Diagram

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Figure 9: Vehicle Class Diagram