

CS6310 Assignment 5
Grocery Express Design Document
Group 11

Introduction

The Grocery Store Application is a command-line based platform that allows customers to order groceries online and have them delivered by drones. Building upon the existing functionality developed in Assignment 3, we have incorporated the following new features:

- **Angry Birds Function:** This feature introduces a special delivery option where orders are delivered by drones that may come across Angry Birds during transit. Each Angry Bird found either at the store or customer's location has the potential to damage the drone, causing it to return to the store for repairs and delaying delivery. System users can adjust the number of Angry Birds and the probability of successful attacks for a customized delivery experience.
- **Time-Sensitive Coupon Function:** This feature rewards loyal customers with randomly distributed time-sensitive coupons applicable to the total order price or specific items. Customers must use the coupons before they expire, encouraging swift order placements. If the store fails to deliver orders on time, penalties apply. System users can adjust coupon frequency and distribution to cater to their customers' preferences.
- **Robustness:** To enhance the application's scalability and reliability, we have incorporated additional test cases, error messages, and a MongoDB database for storing the application's information.

Instructions to run application

1. Download the application.zip from canvas or from the following link:
<https://drive.google.com/file/d/1LOtspimUObYv5rwmTywiolbFhIZhWI4g/view?usp=sharing>
2. Unzip the folder
3. Open the folder in IntelliJ IDEA
4. Go to Readme.md "Installation" section to find detailed instructions

Deliverables

a. Source code:

Please find the source_code.zip from the link:

<https://drive.google.com/file/d/1Vth86vKs3G5GfvoQT61VqwrZ4DsRZLFM/view?usp=sharing>

b. Application:

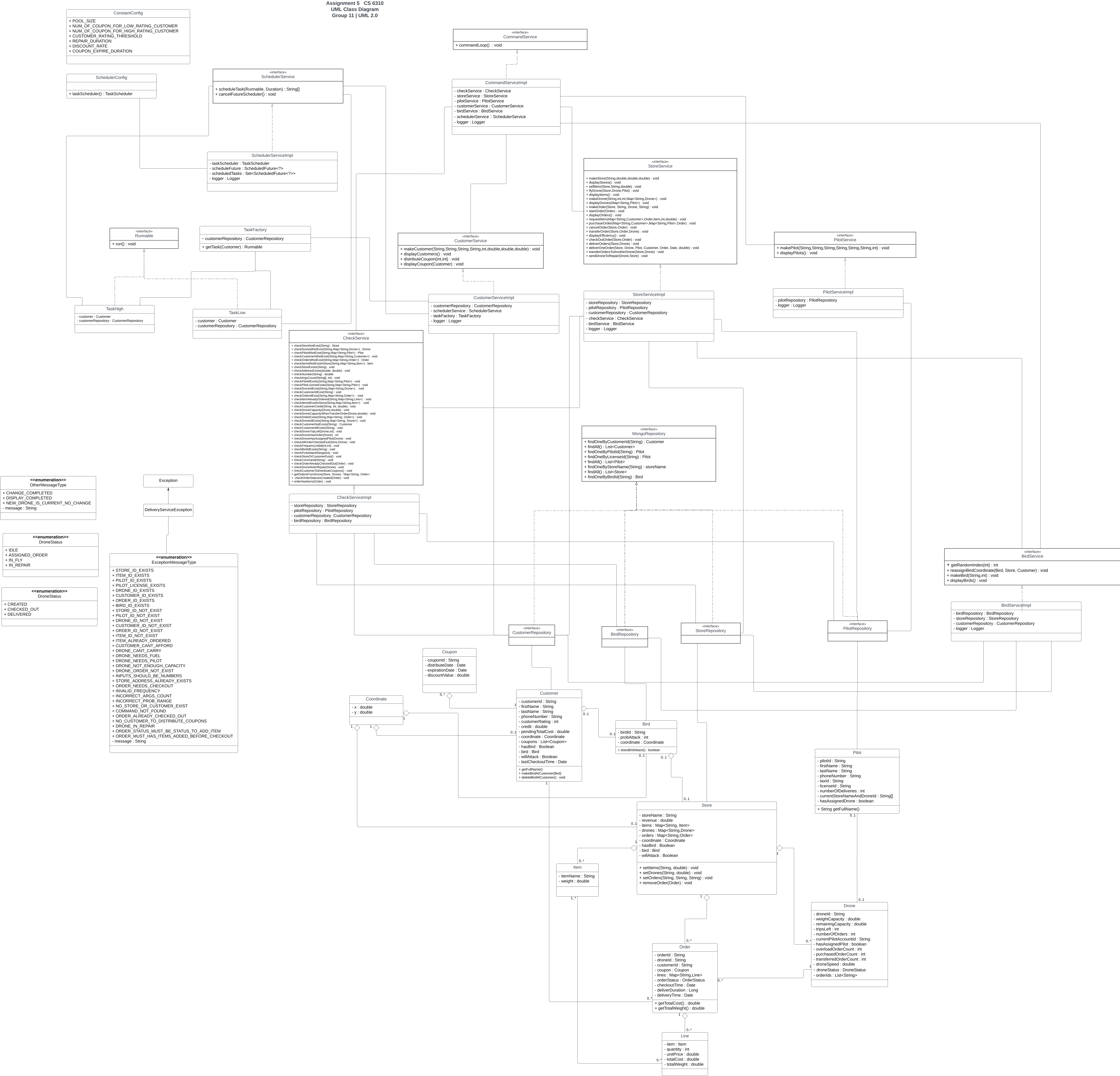
Please find the application.zip from the link:

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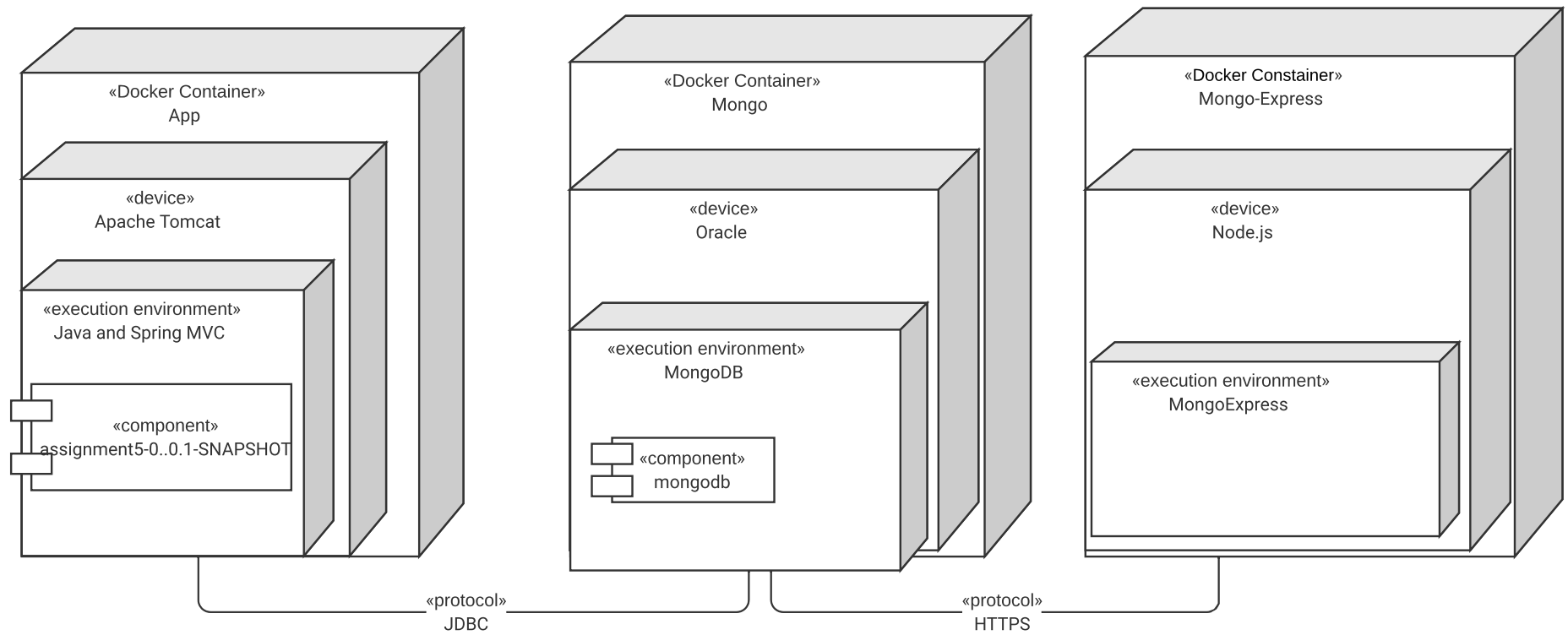
c. Demonstration Video

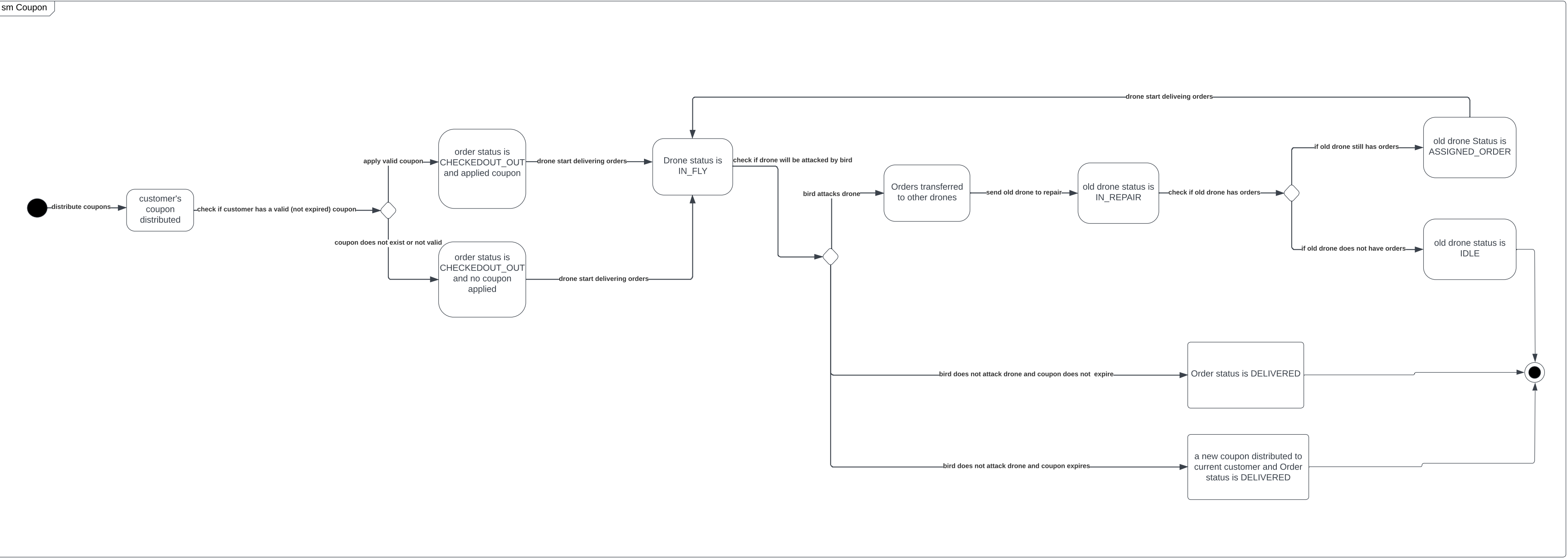
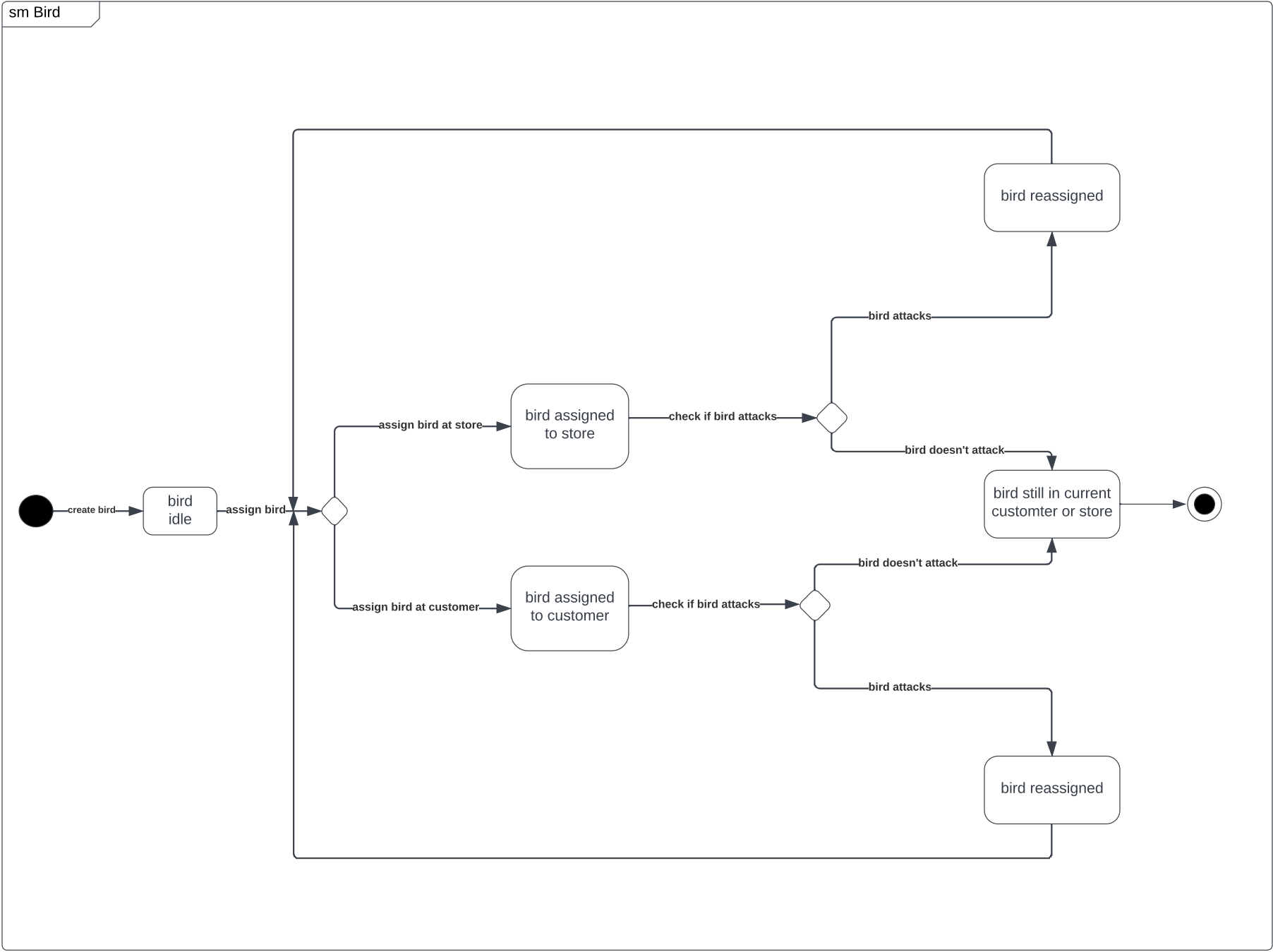
Please find the video form the link : <https://youtu.be/ieTNweYIO1c>

d. UML Diagrams

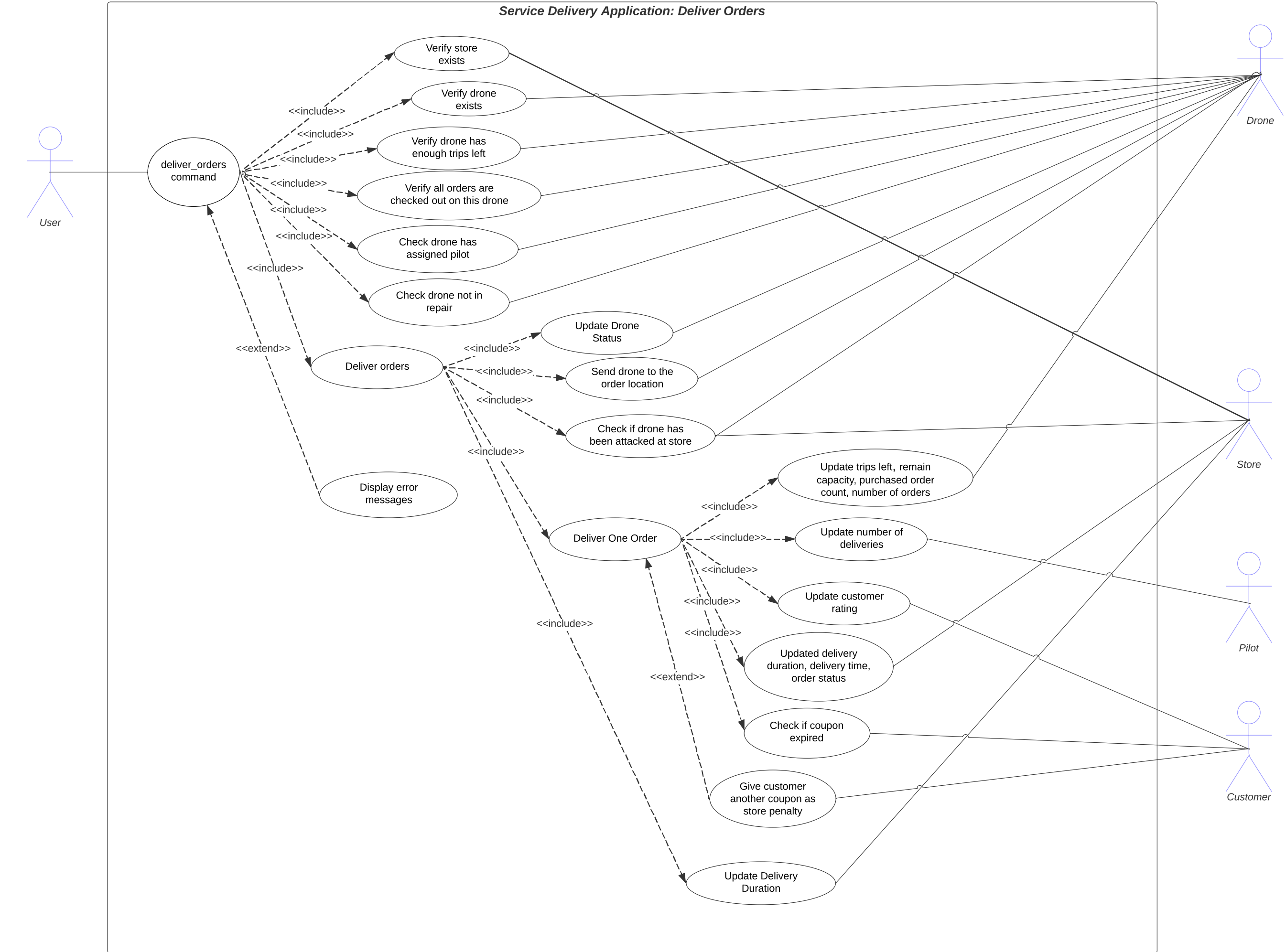
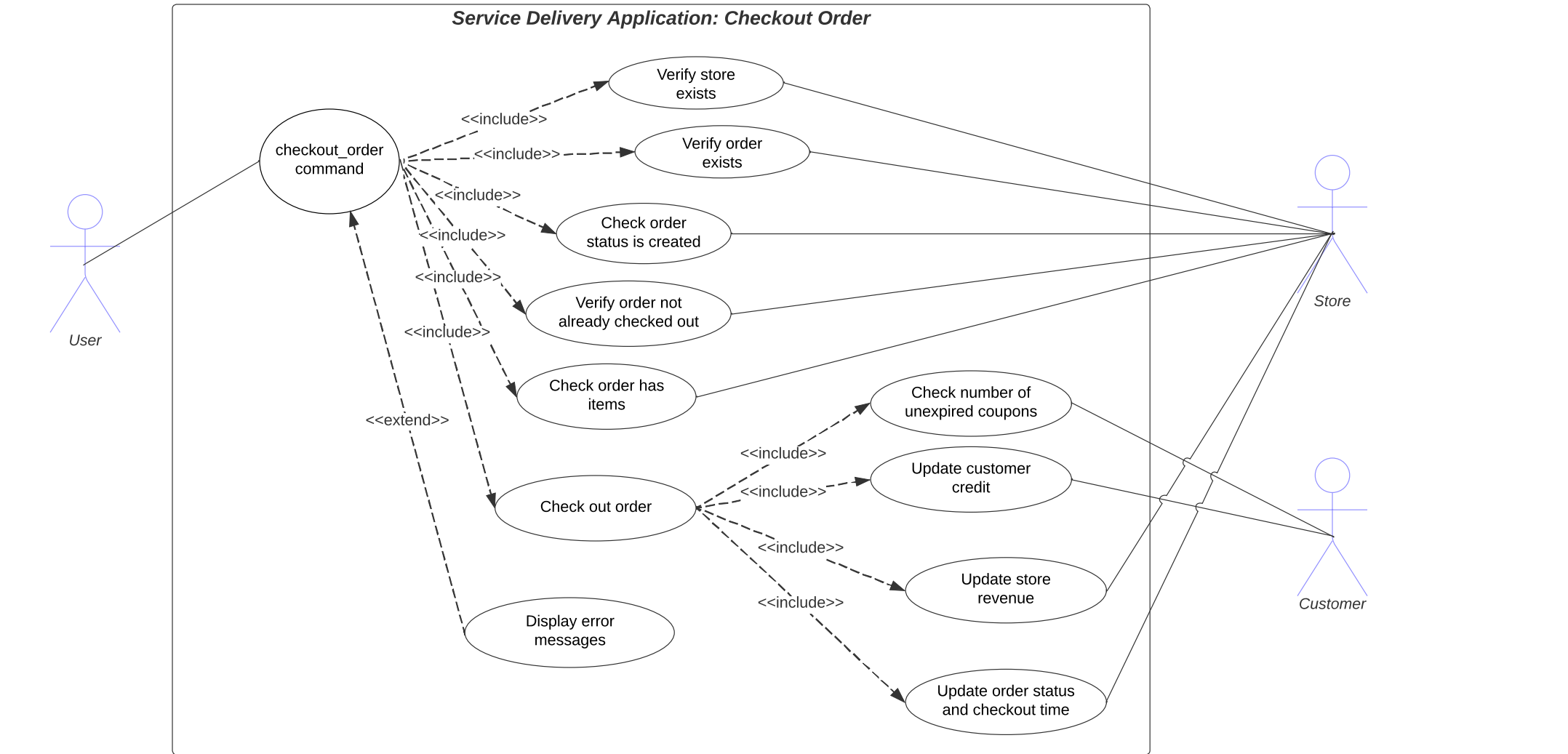
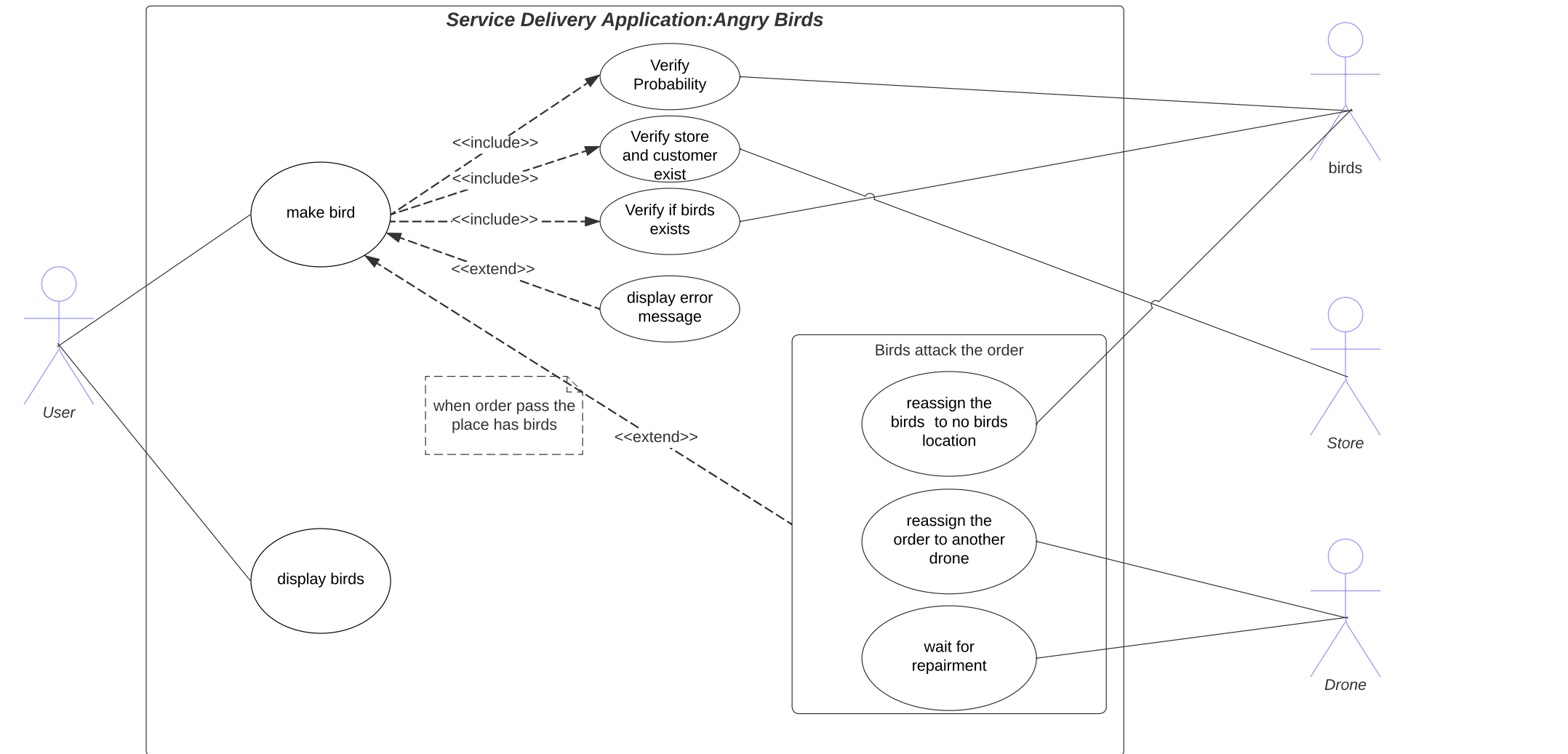


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UML Deployment Diagram
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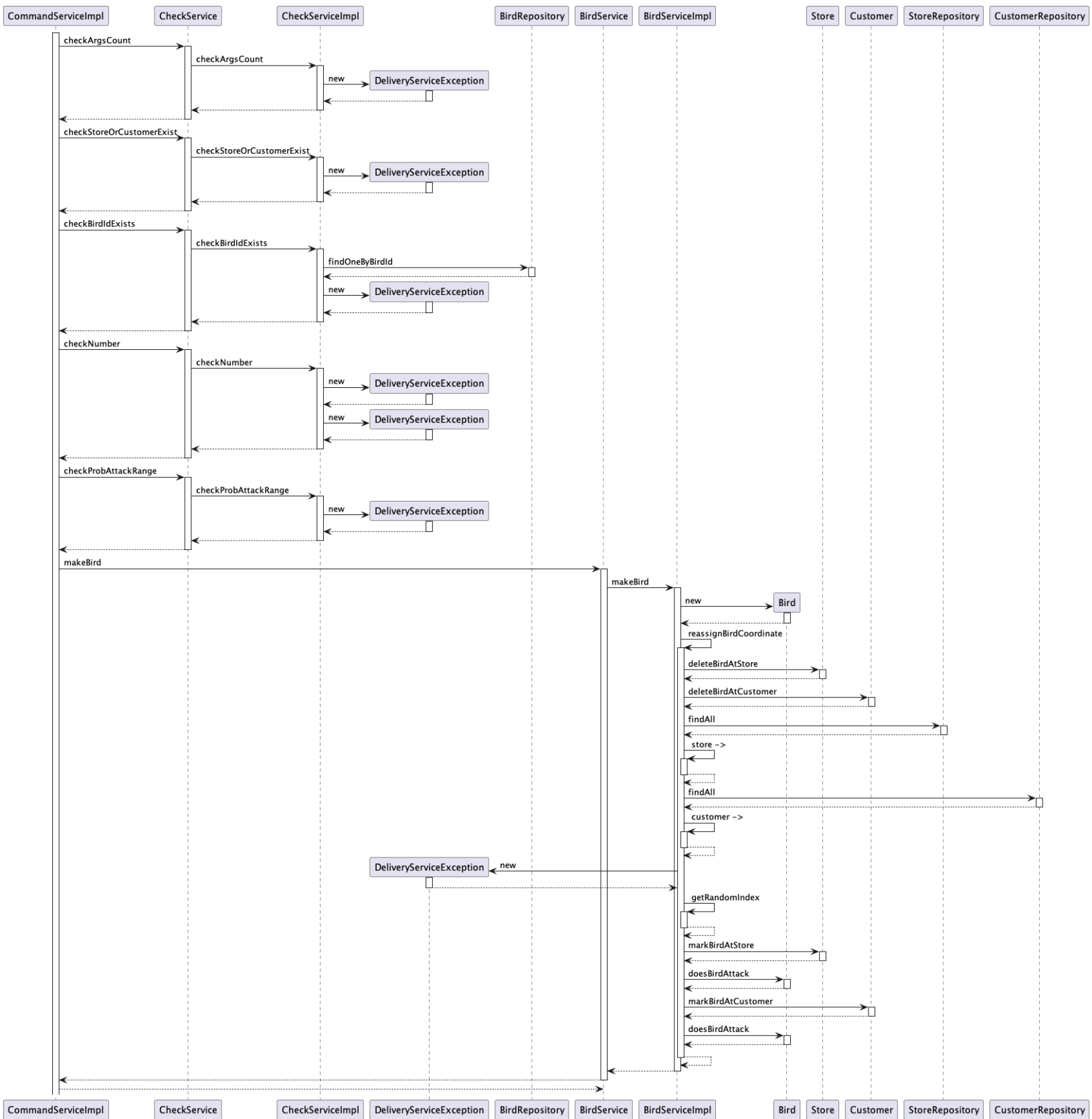


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Use Case Diagram
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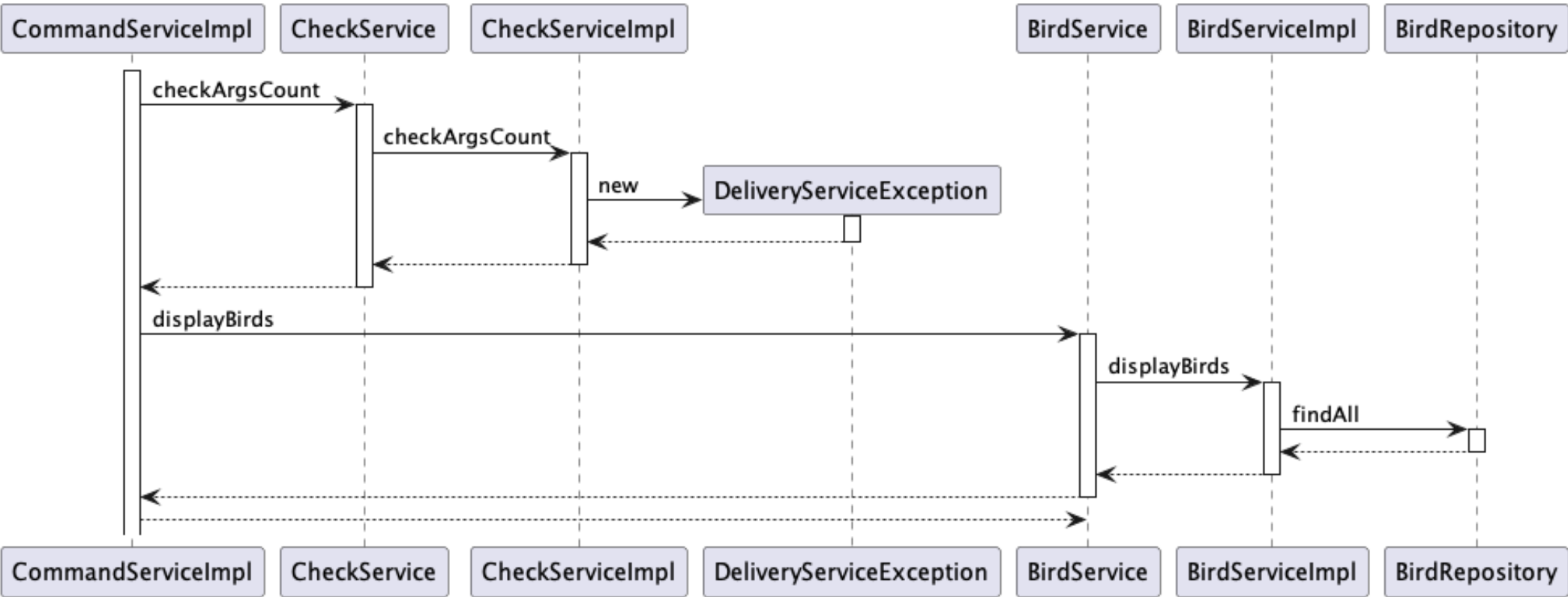


Assignment 5 CS 6310 Sequence Diagram
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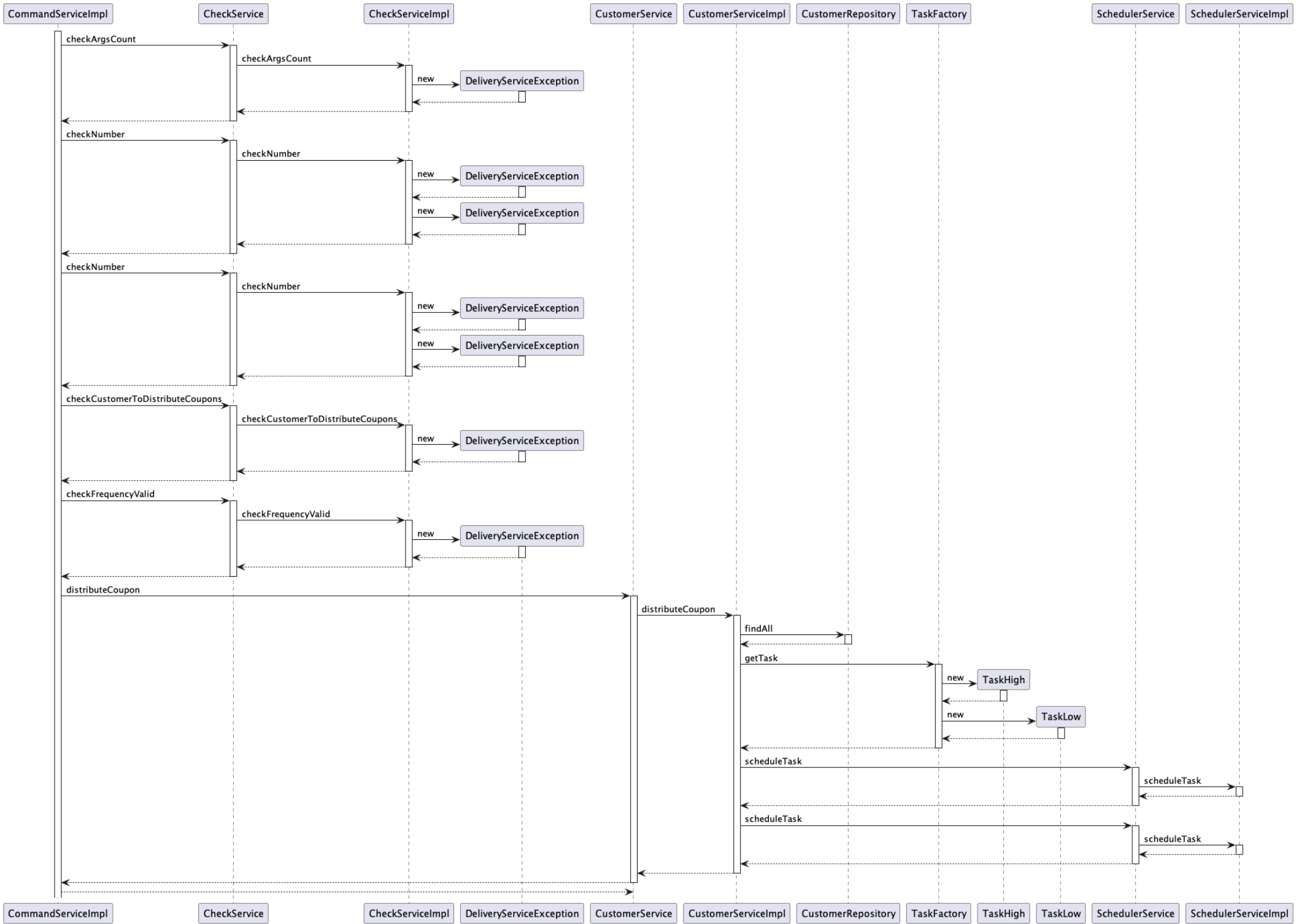
create_bird



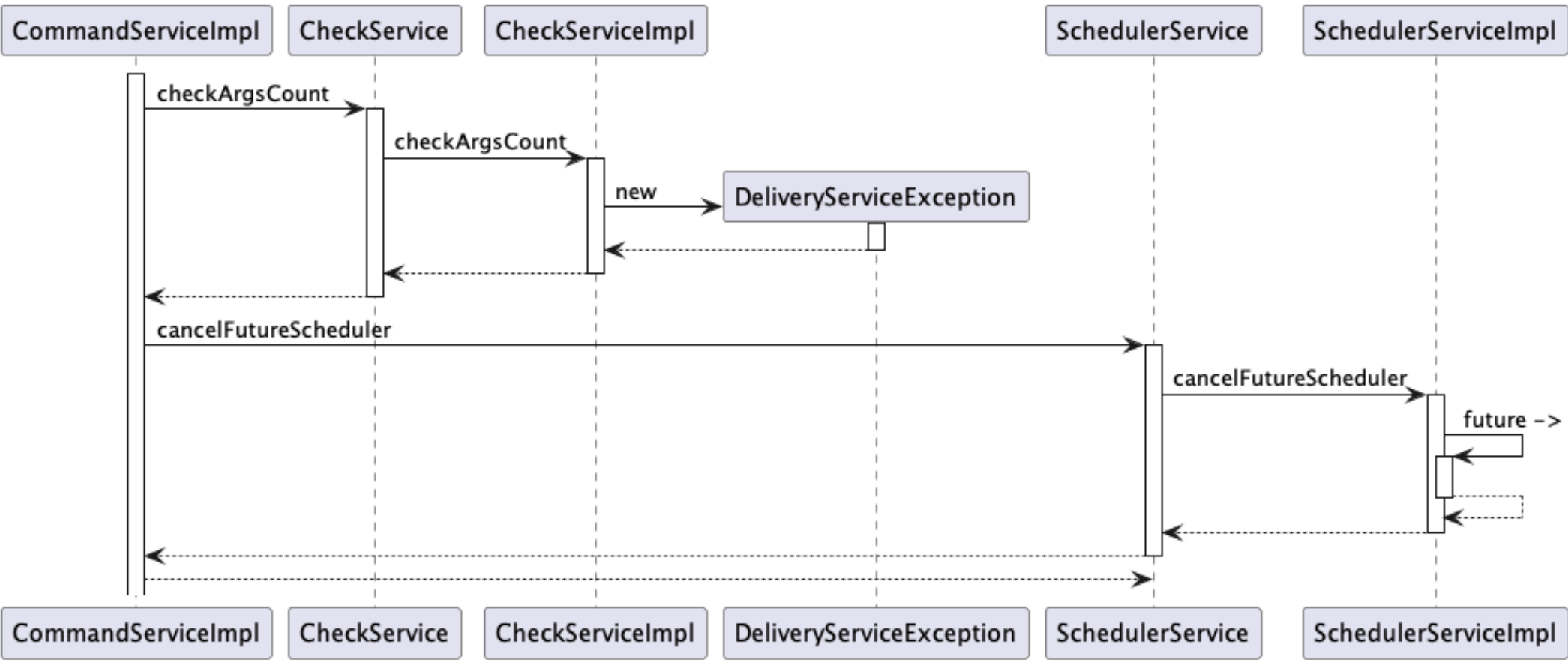
display_birds



distribute_coupon



stop_distribute_coupon



display_coupon

