Notary Administration System
07
SE 305 – Software Specification and Design
Term Project Design Document

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1. Introduction

The Notary Administration System is designed to make it easy for clients to get information about the status of work files and show the necessary documents to the customer before they come to the notary office. In addition the system has a appointment module for long proceses such as inheritence process. The aim of the system is solving the long waiting time at the notary's office. When the customers wait too much at the notary office, dispute may arrise and it slow things down.

2. Problem Definition

There are mainly three problems. The first problem is the long waiting time at the notary's office. While the customers are waiting at the office, some customers gets angry due to waiting time and starts to bother the notary. These customers cause stressful work environment for the notary and also dangereous station due to pandemic reasons. The system will include an appointment module to solve long waiting times.

The second problem is clients have difficulty getting information related to the progress of documents that are being taken care of at the notary's office. The system will show the progress of the documents. Thus, the customer will not have to contact the notary office to find out the status of the document.

The last problem is customers do not know the necessary documents to bring to the Notary. The system will show the necessary documents so every customer will be ready for the process.

3. Proposed System Design

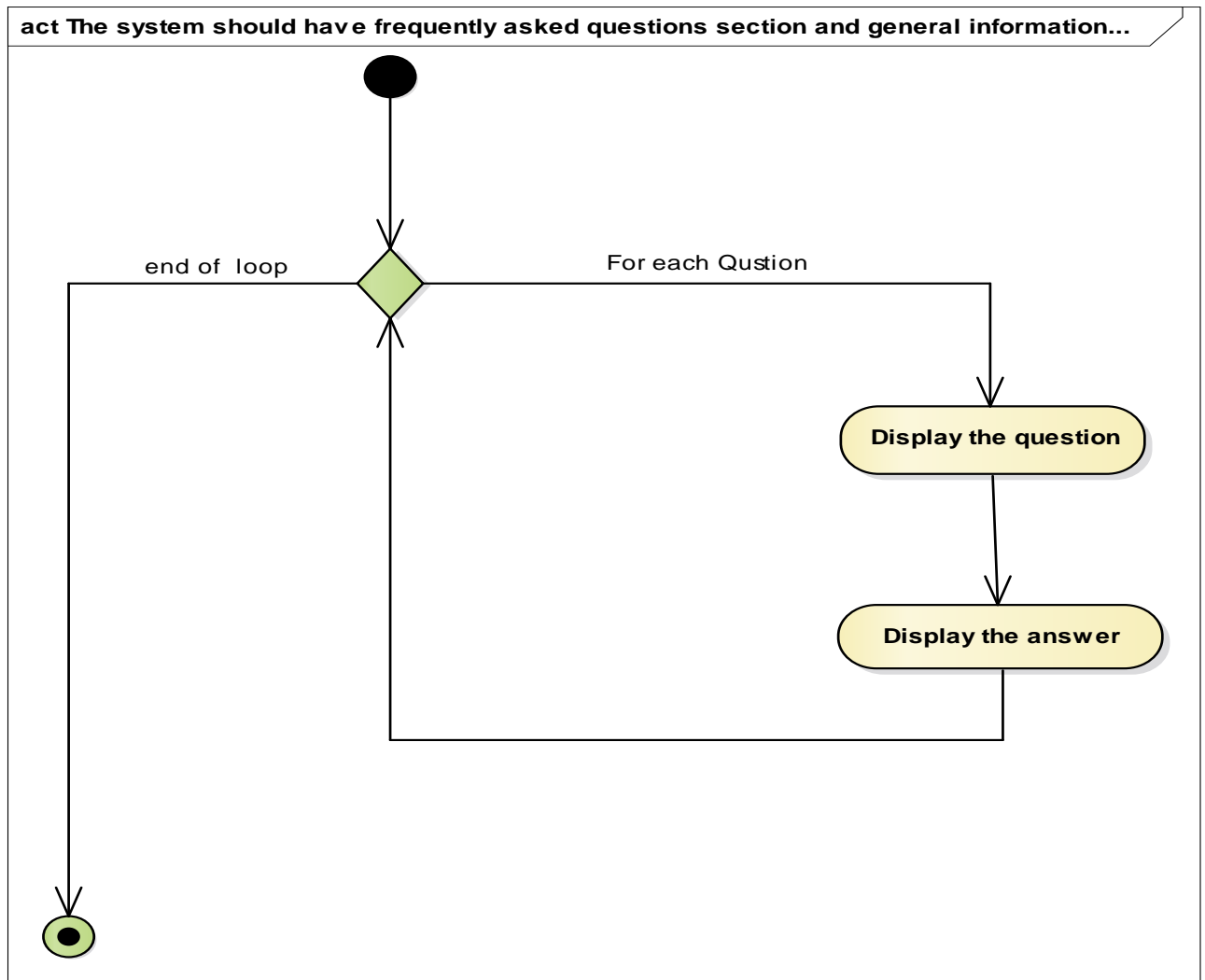## 3.1. Requirements

3.1.1 Functional :

1. In order to ensure the accuracy of the documents brought by the customer, the customer must be able to see the necessary documents on the website for the relevant transaction.

2. The system should allow the notary to send notification to customers.

3. The system should display document status such as queued, put into operation, finished.

4. The system should display users the necessary documents that are required to have and allow them to confirm with using checkboxes.

5. The system should have an appointment module for transactions such as certificate of inheritance and warrant of attorney.

6. The system should have frequently asked questions section and general information about the process.

7. The system should show the contact information of the notary office such as email and phone number.

### 3.1.2 Non-Functional :

1. The system shall be available 24/7.

2. The system should be entegrated with e-Devlet.

3. The system should have a language preference for English and Turkish.

4. The system should load at most in 10 seconds.

5. The system should support 1000 connections simultaneously.

6. To ensure reliability, the system should allow users the verify themselves.
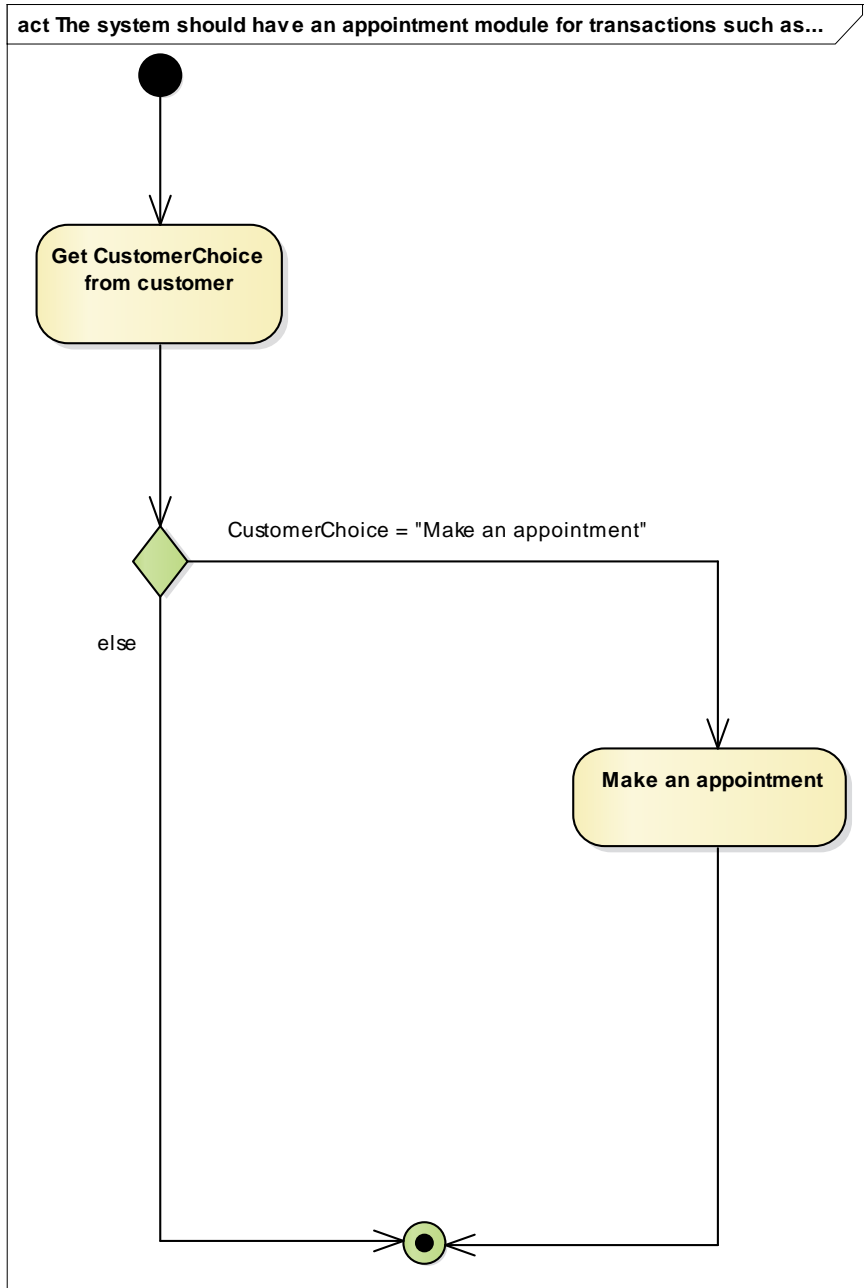
3.2. Activity Diagrams

3.2.1. Activity Diagram 1: The system should have frequently asked questions section and general information about the process.

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3.2.2. Activity Diagram 2: The system should display document status such as queued, put into operation, finished.

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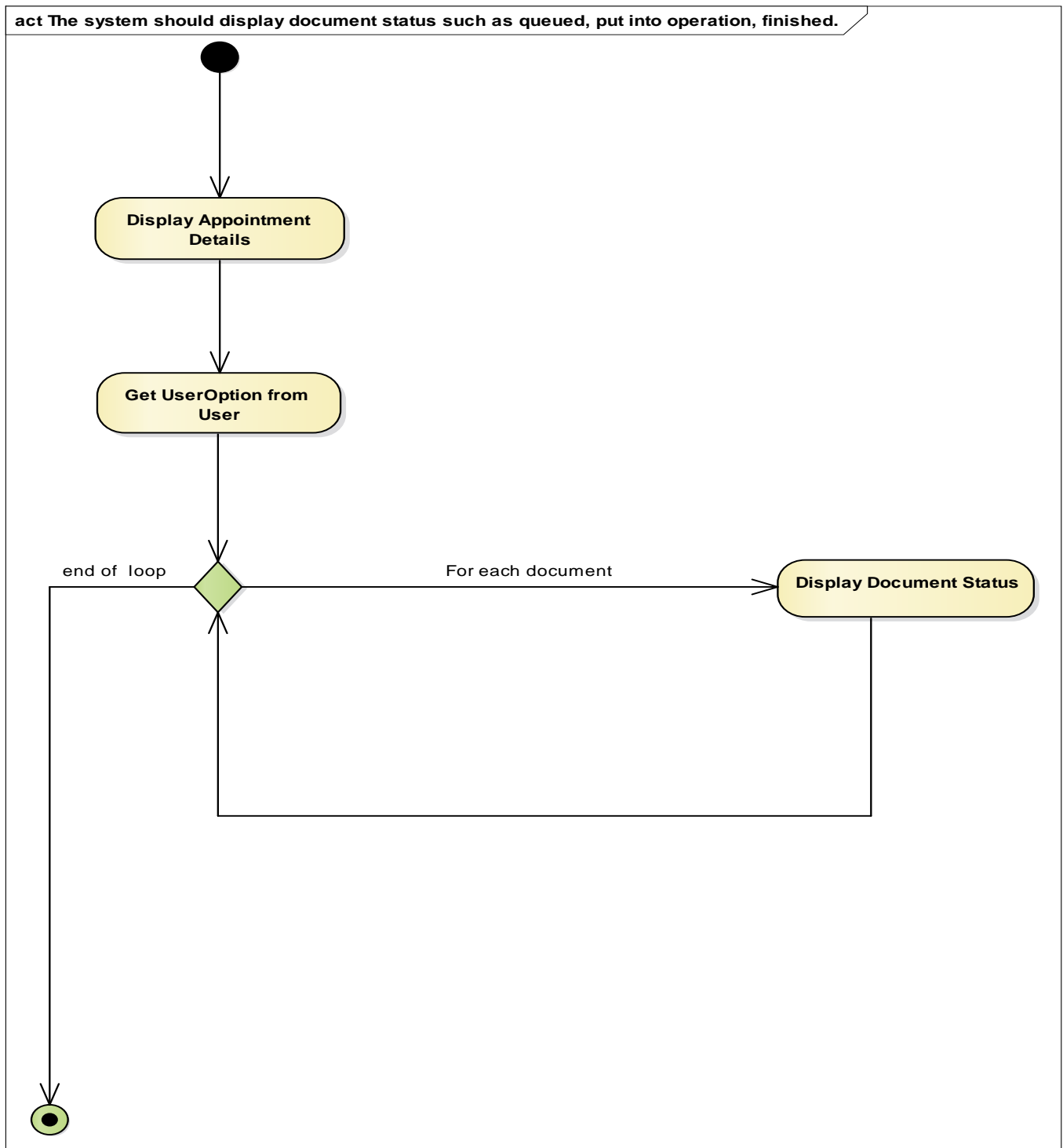
3.2.3. Activity Diagram 3: The system should have an appointment module for transactions such as certificate of inheritance and warrant of attorney.
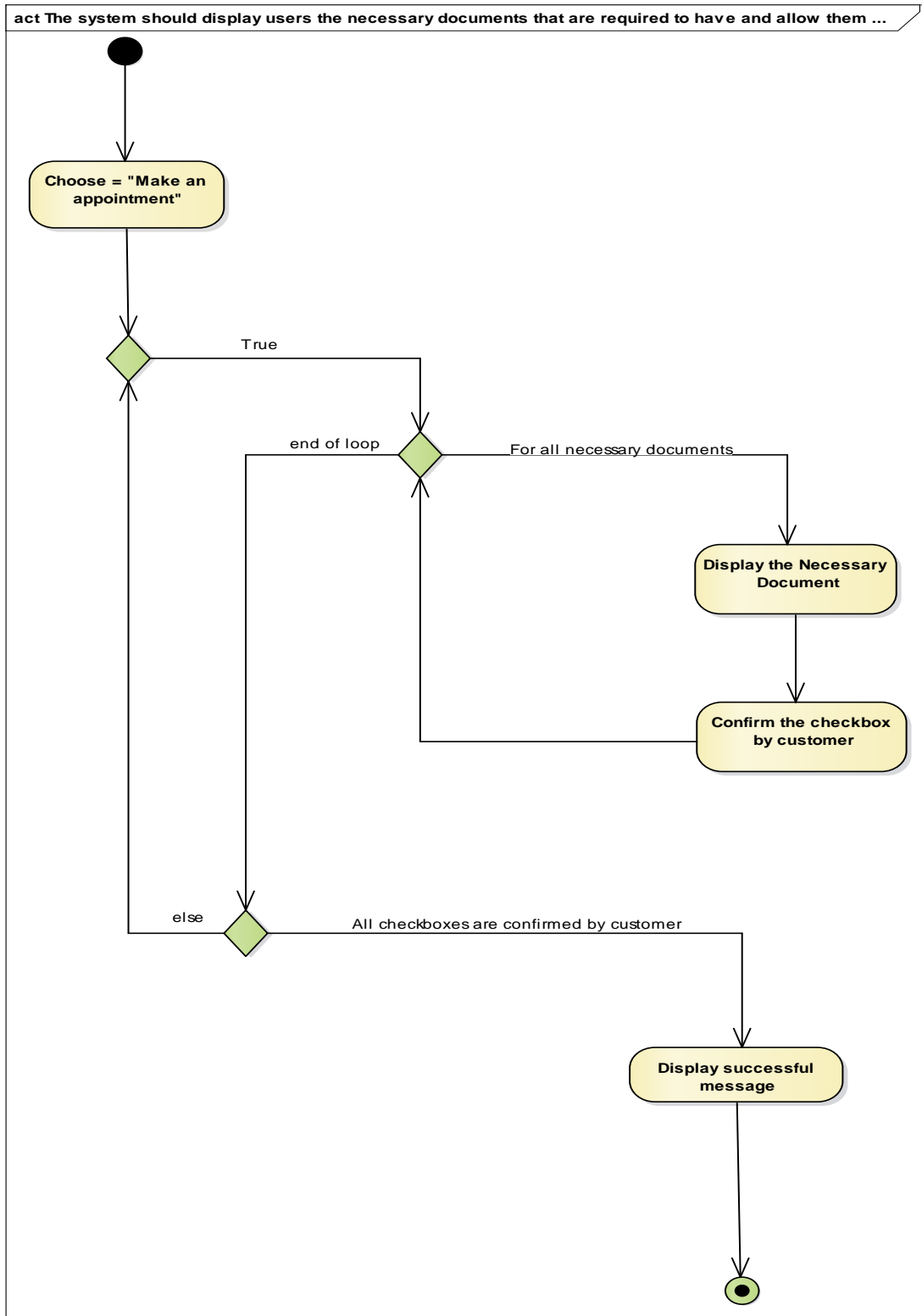
act The system should have an appointment module for transactions such as...

Get CustomerChoice from customer

CustomerChoice = "Make an appointment"

else

Make an appointment

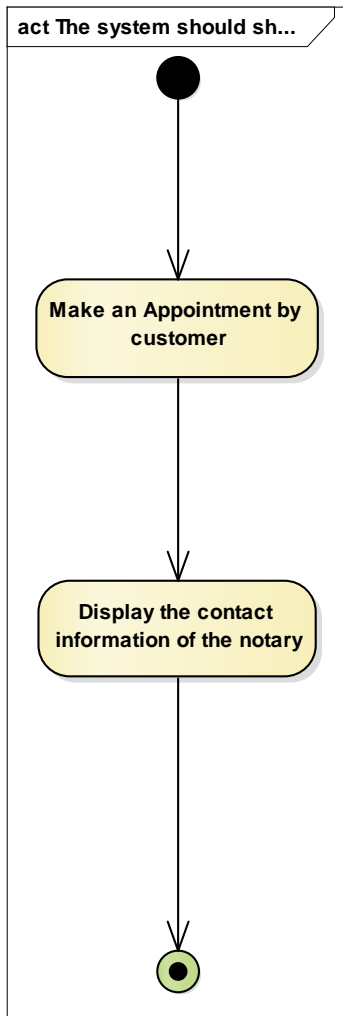3.2.4. Activity Diagram 4: The system should allow the notary to send notification to customers.
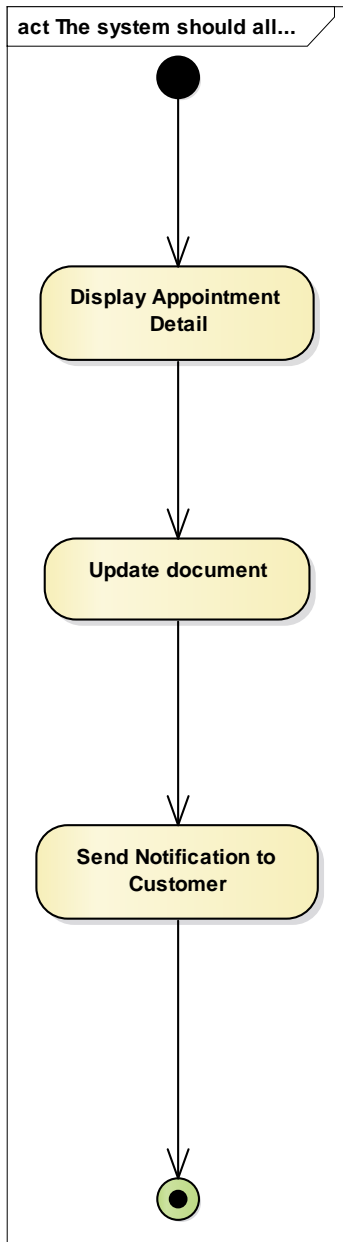
3.2.5. Activity Diagram 5: In order to ensure the accuracy of the documents brought by the customer, the customer must be able to see the necessary documents on the website for the relevant transaction.
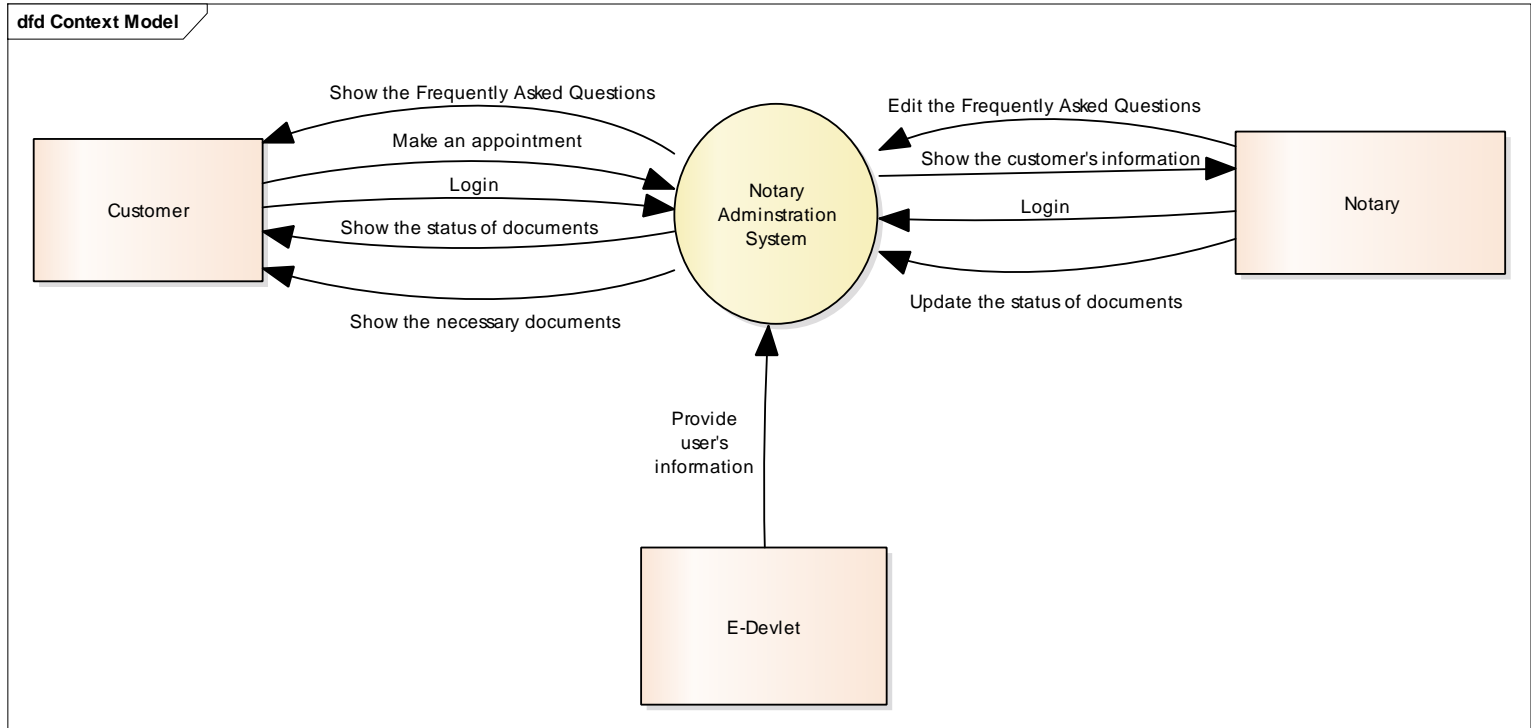
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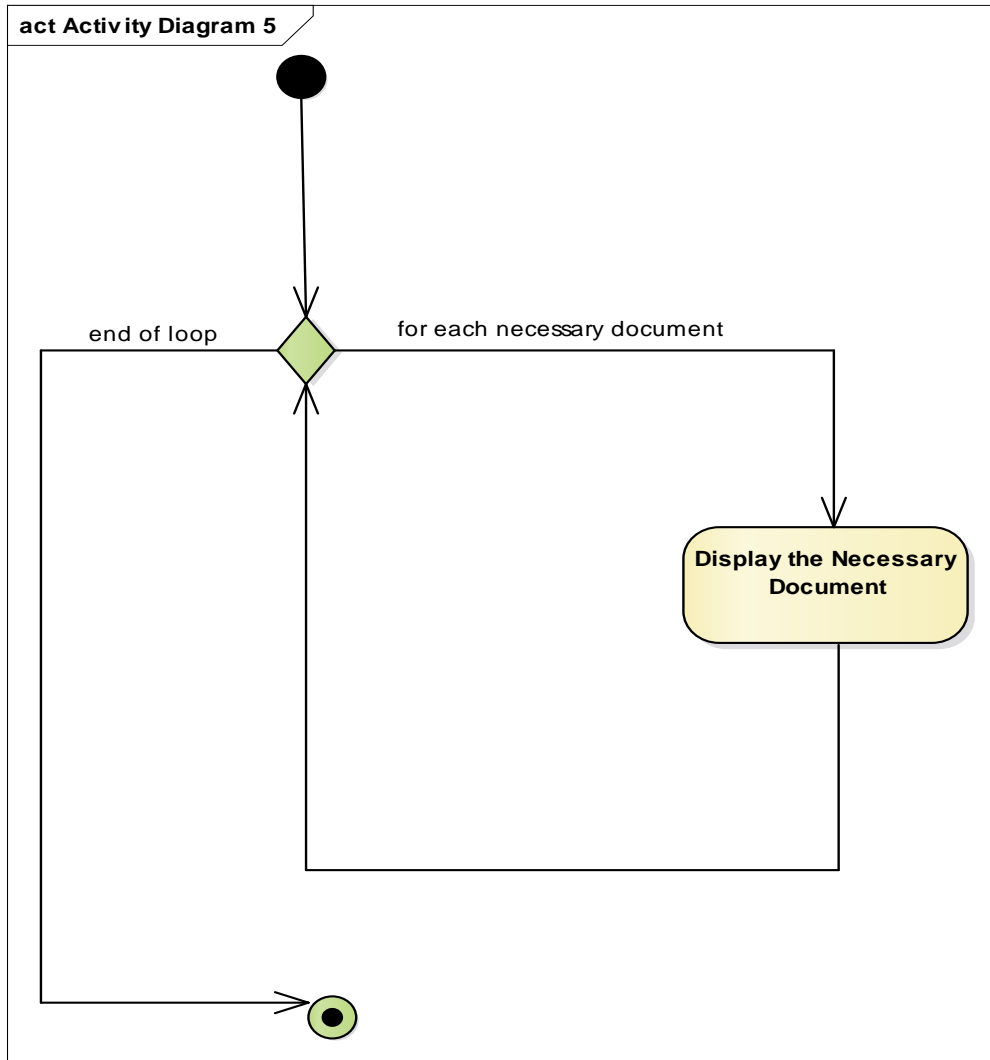
3.2.6. Activity Diagram 6: The system should display users the necessary documents that are required to have and allow them to confirm with using checkboxes.

act The system should display users the necessary documents that are required to have and allow them ...

Choose = "Make an appointment"

True

end of loop

For all necessary documents

Display the Necessary Document

Confirm the checkbox by customer

else

All checkboxes are confirmed by customer

Display successful message

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3.2.7. Activity Diagram 5: The system should show the contact information of the notary office such as email and phone number.

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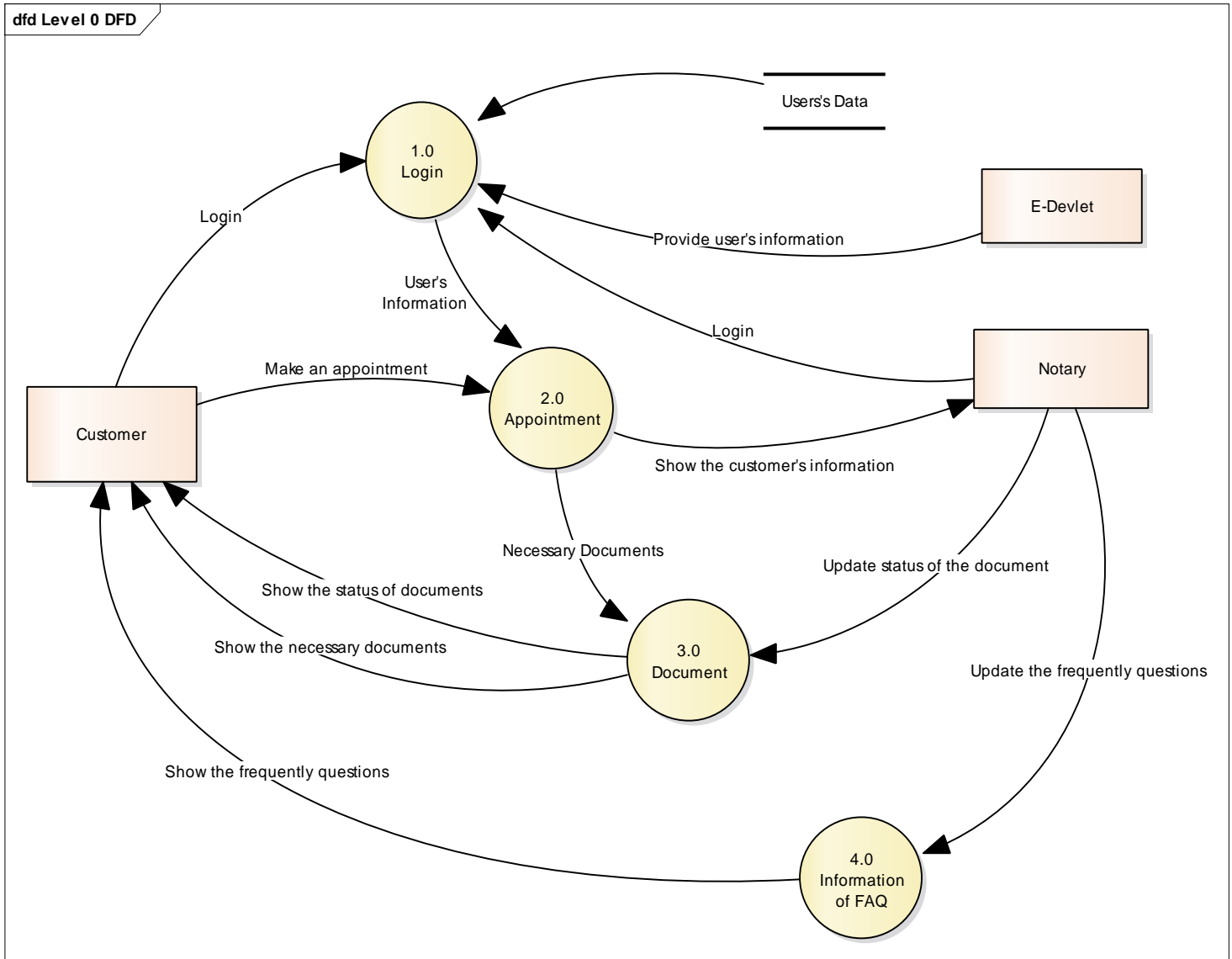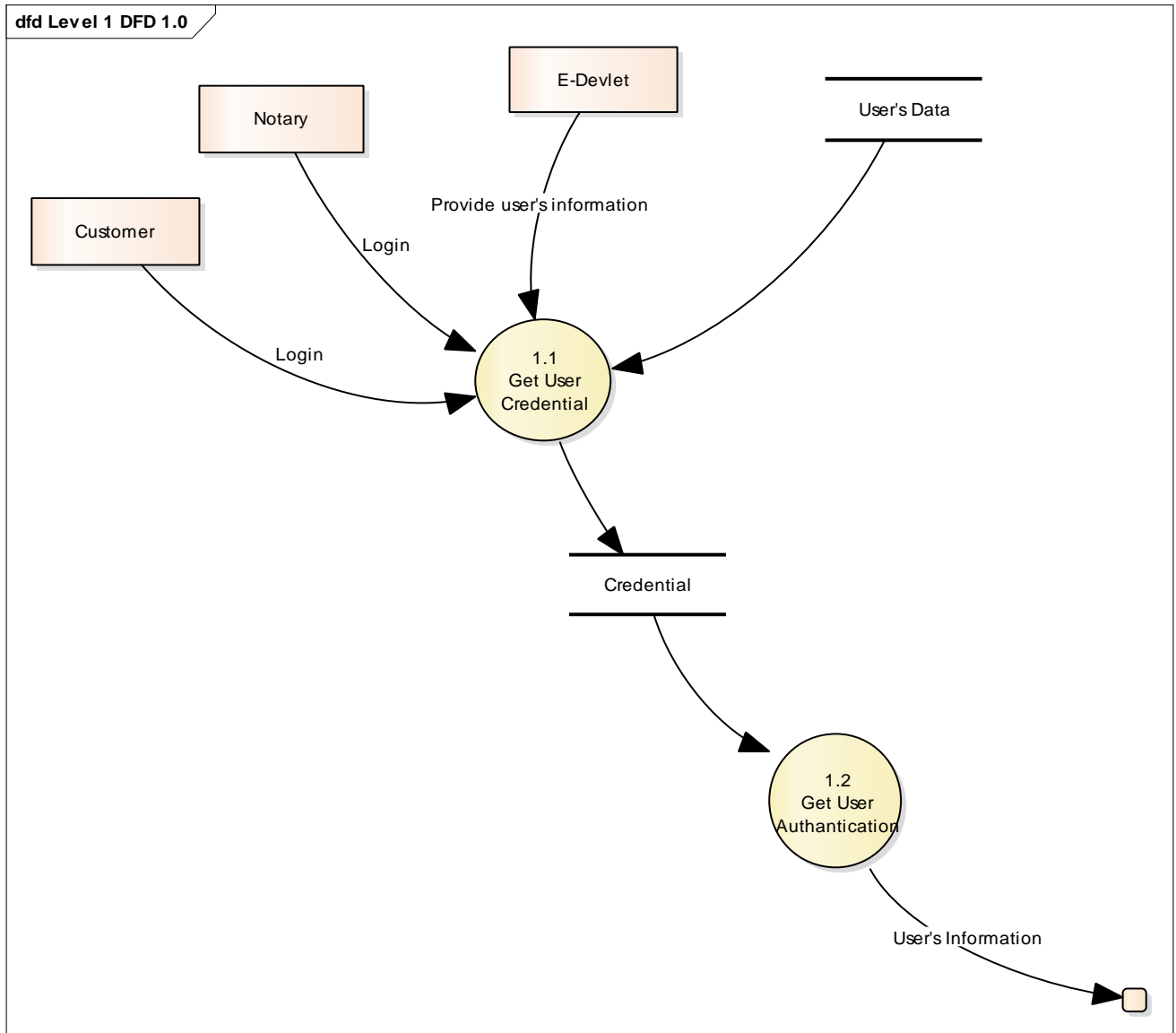
3.3. Context Model

dfd Context Model

Show the Frequently Asked Questions

Make an appointment

Login

Show the status of documents

Customer

Show the necessary documents

Notary Adminstration System

Edit the Frequently Asked Questions

Show the customer's information

Login

Notary

Update the status of documents

Provide user's information

E-Devlet
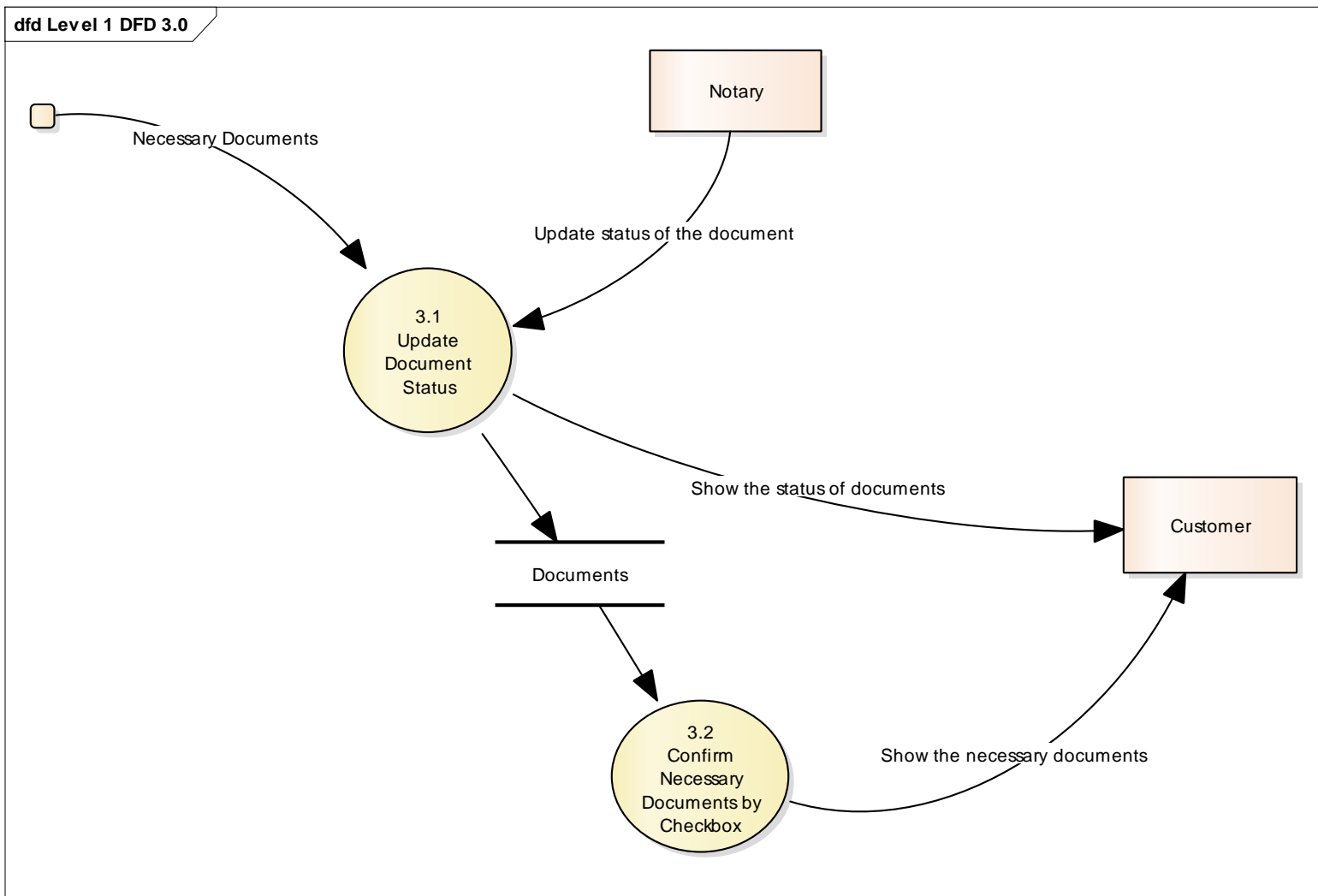
3.4. Data Flow Diagrams

3.4.1 Data Flow Diagram Level 0:

3.4.2 Data Flow Diagram Level 1 (1.0):

3.4.3 Data Flow Diagram Level 1 (2.0):
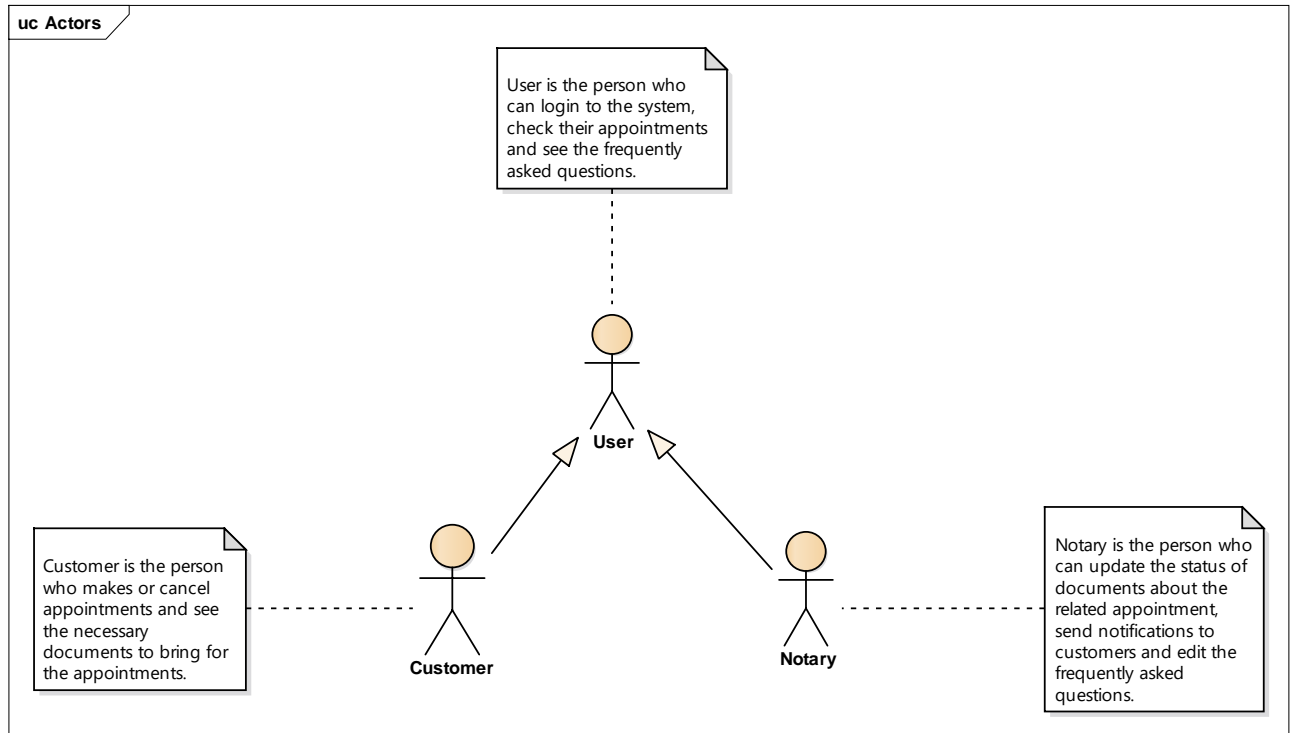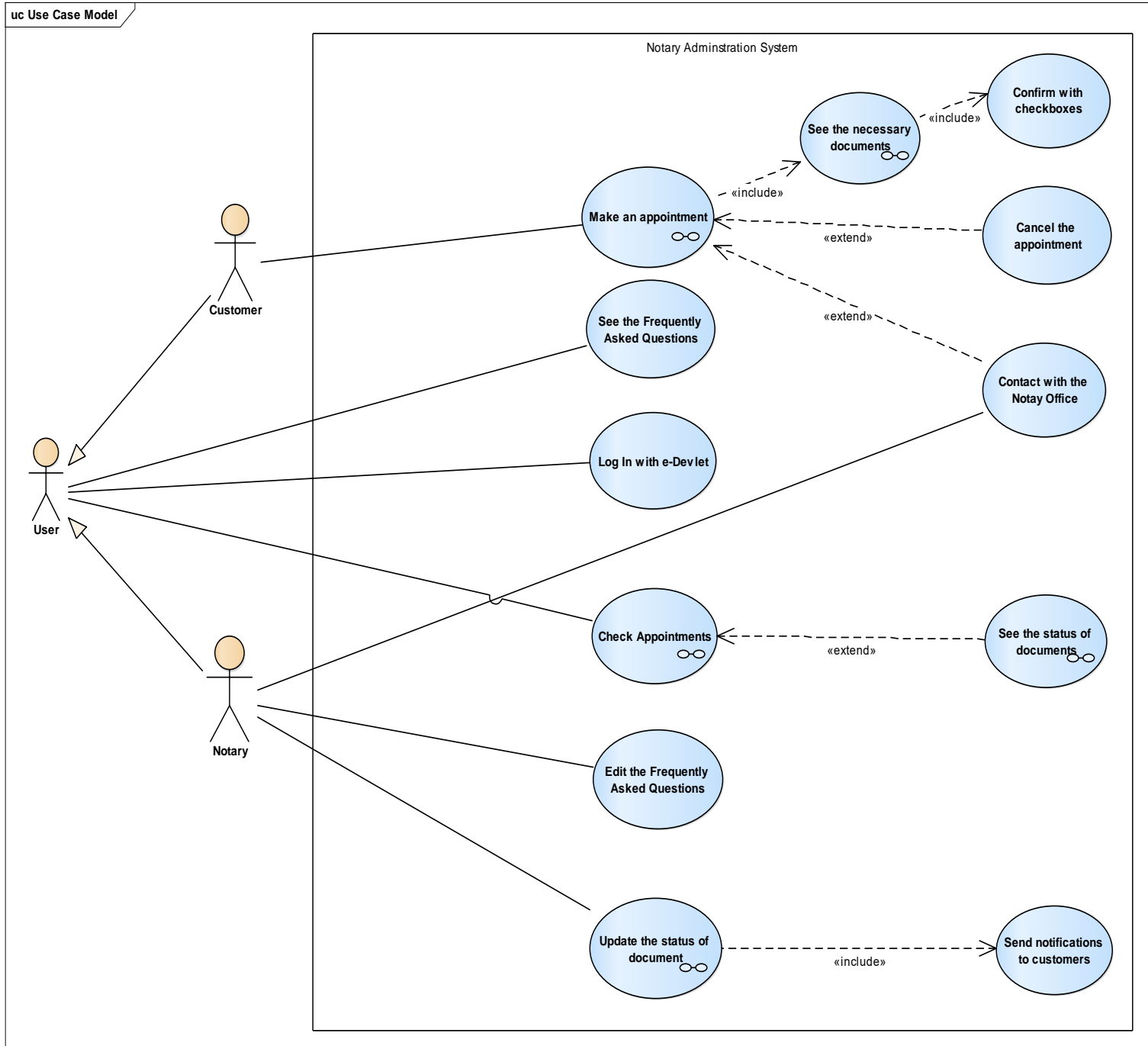
3.4.4 Data Flow Diagram Level 1(3.0):

dfd Level 1 DFD 3.0

Notary

Necessary Documents

Update status of the document

3.1
Update
Document
Status

Show the status of documents

Customer

Documents

3.2
Confirm
Necessary
Documents by
Checkbox

Show the necessary documents

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3.4.5 Data Flow Diagram Level 1(4.0):

dfd Level 1 DFD 4.0

Update the Frequently Questions → Notary

4.1
Database of
FAQ

FAQ

4.2
Show the
Information
of FAQ

Show the Frequently Questions

Customer
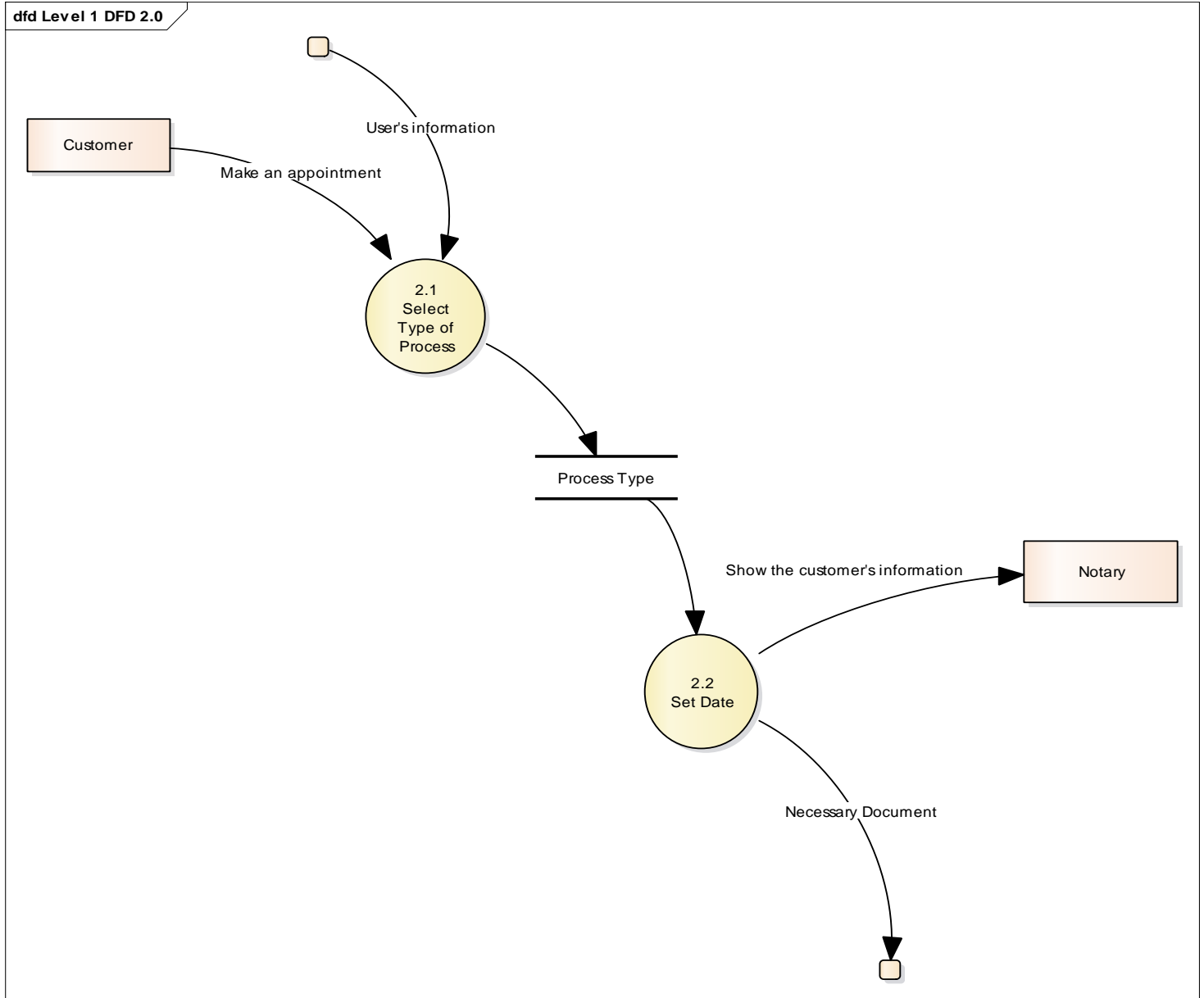
3.5. Use Cases

3.5.1. Actors

3.5.2. Use Case Diagrams

3.6. Class Diagrams

3.6.1. Class Diagram 1: Notary Administration System Class Diagram
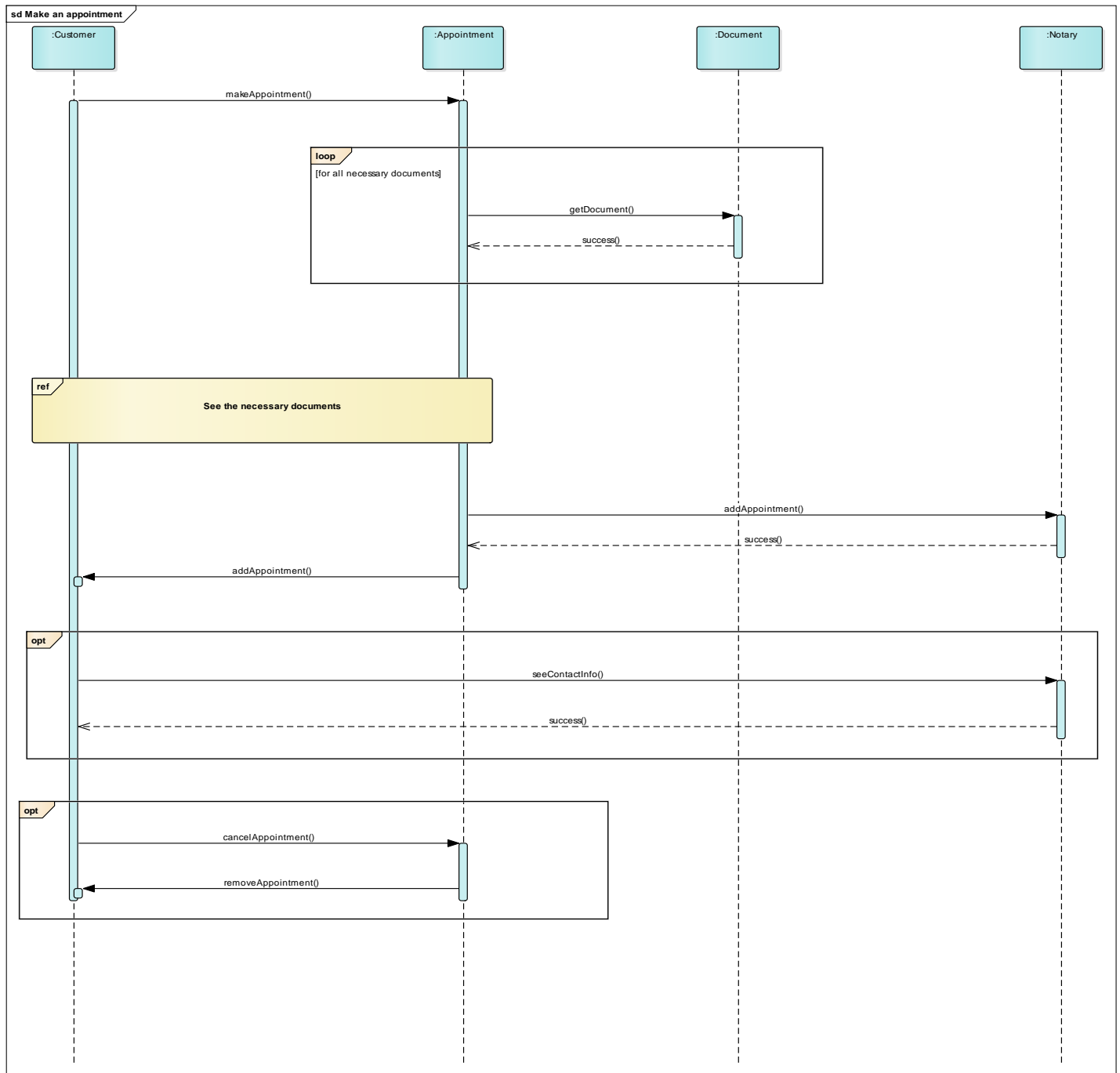
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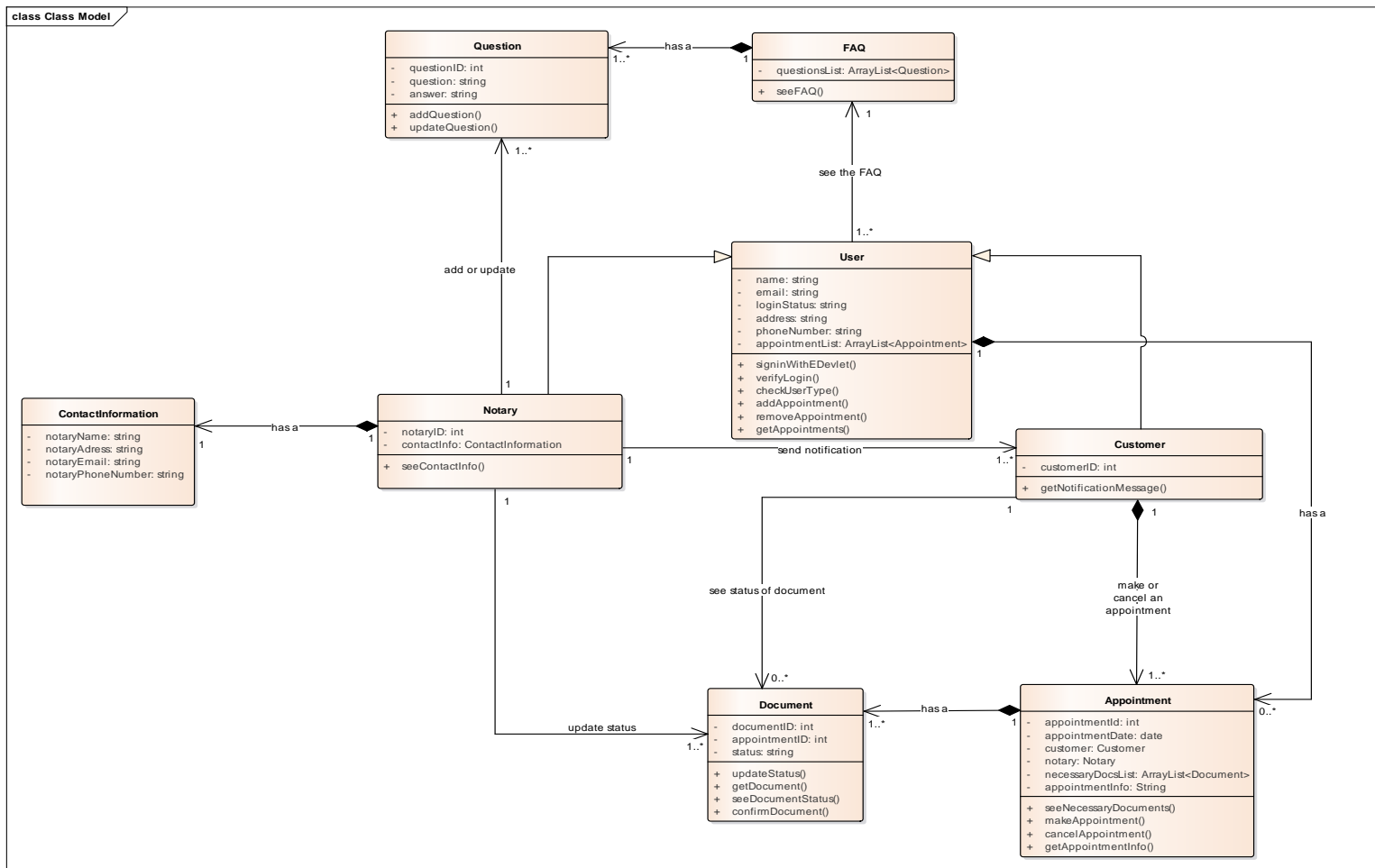
3.7. E/R Diagrams

3.7.1. E/R Diagram 1: Notary Administration System E/R Diagram
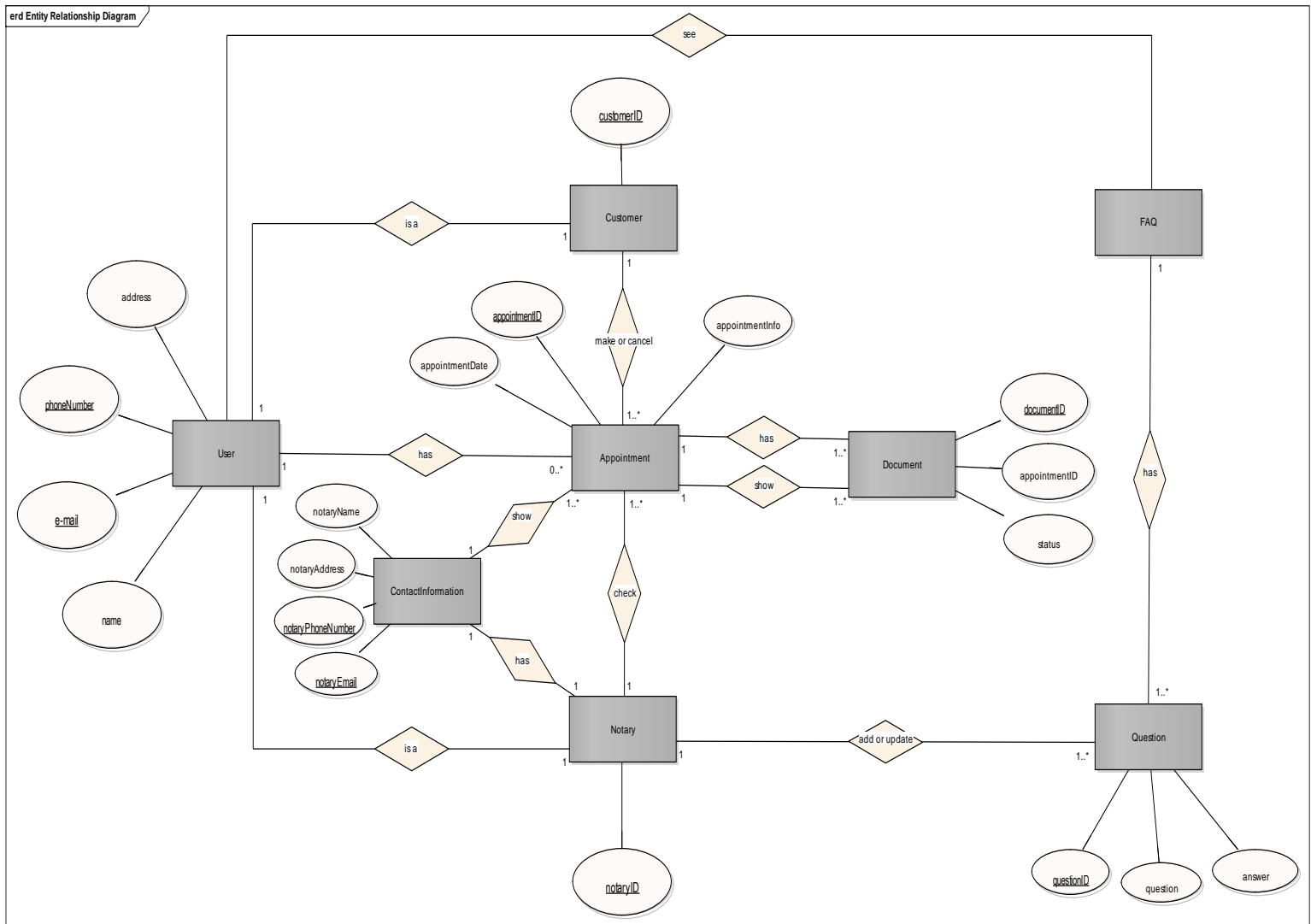
3.8. Sequence Diagrams

3.8.1. Sequence Diagram 1: Make an appointment
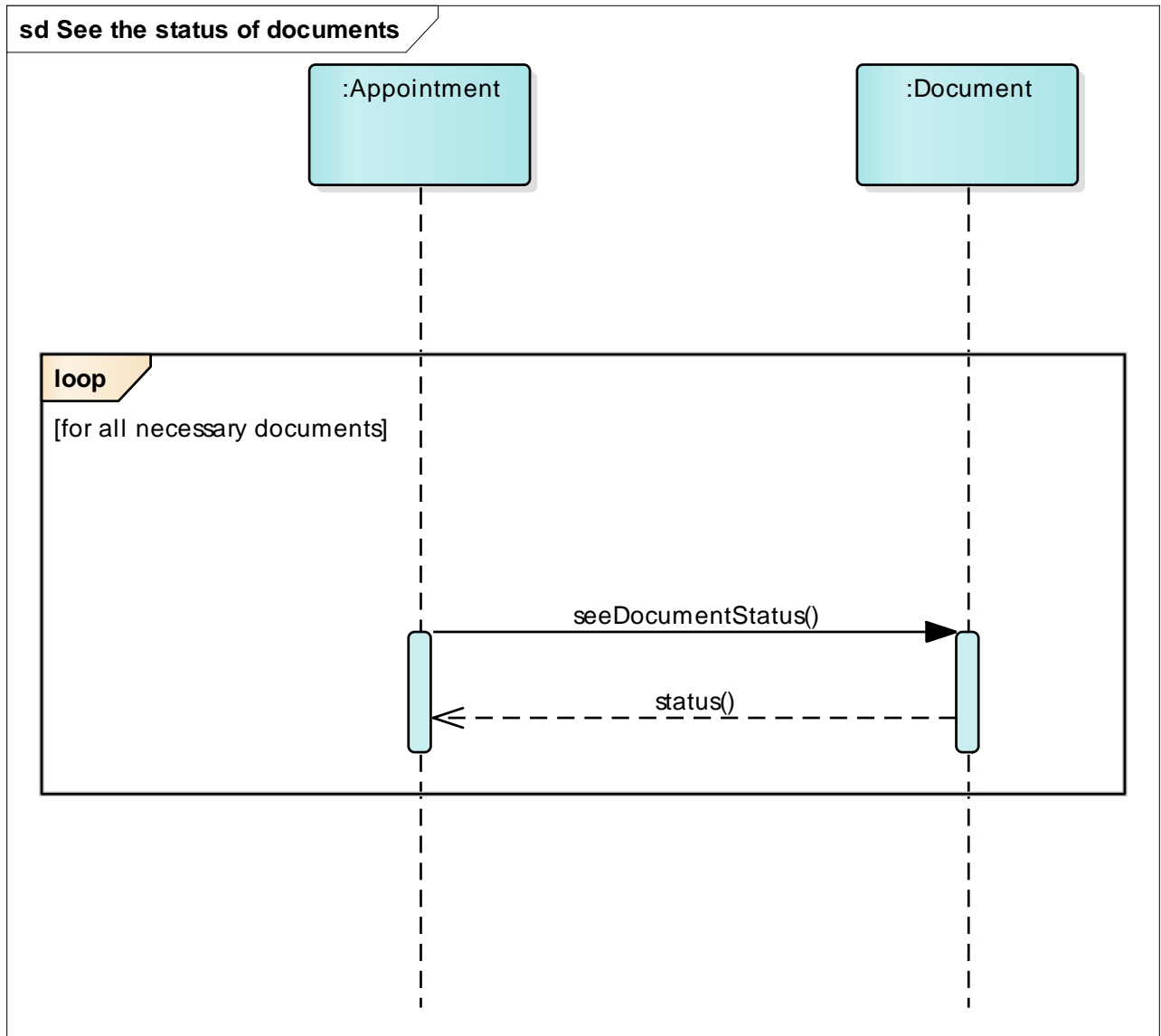
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3.8.2. Sequence Diagram 2: See the necessary documents
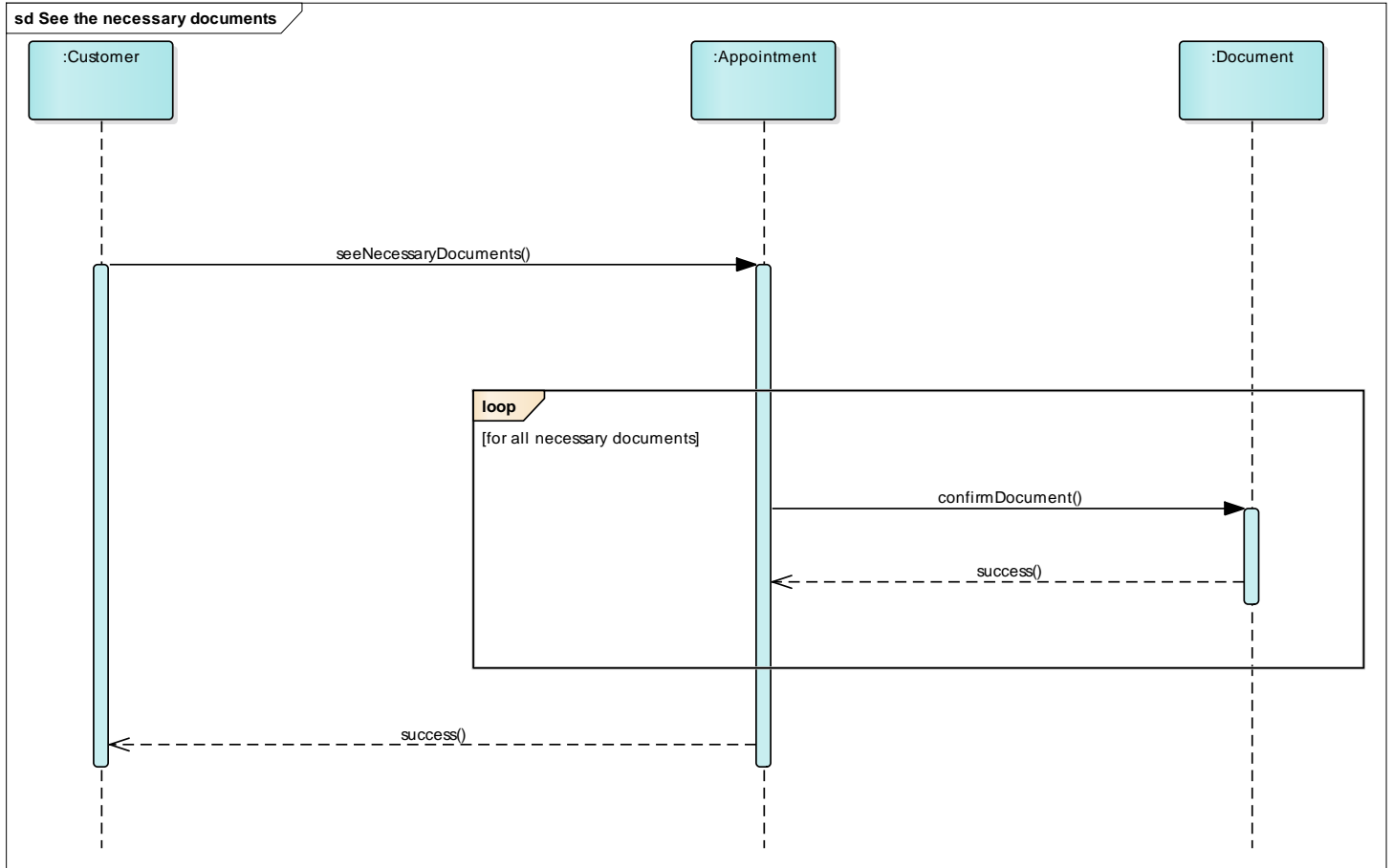
3.8.3. Sequence Diagram 3: Check Appointments

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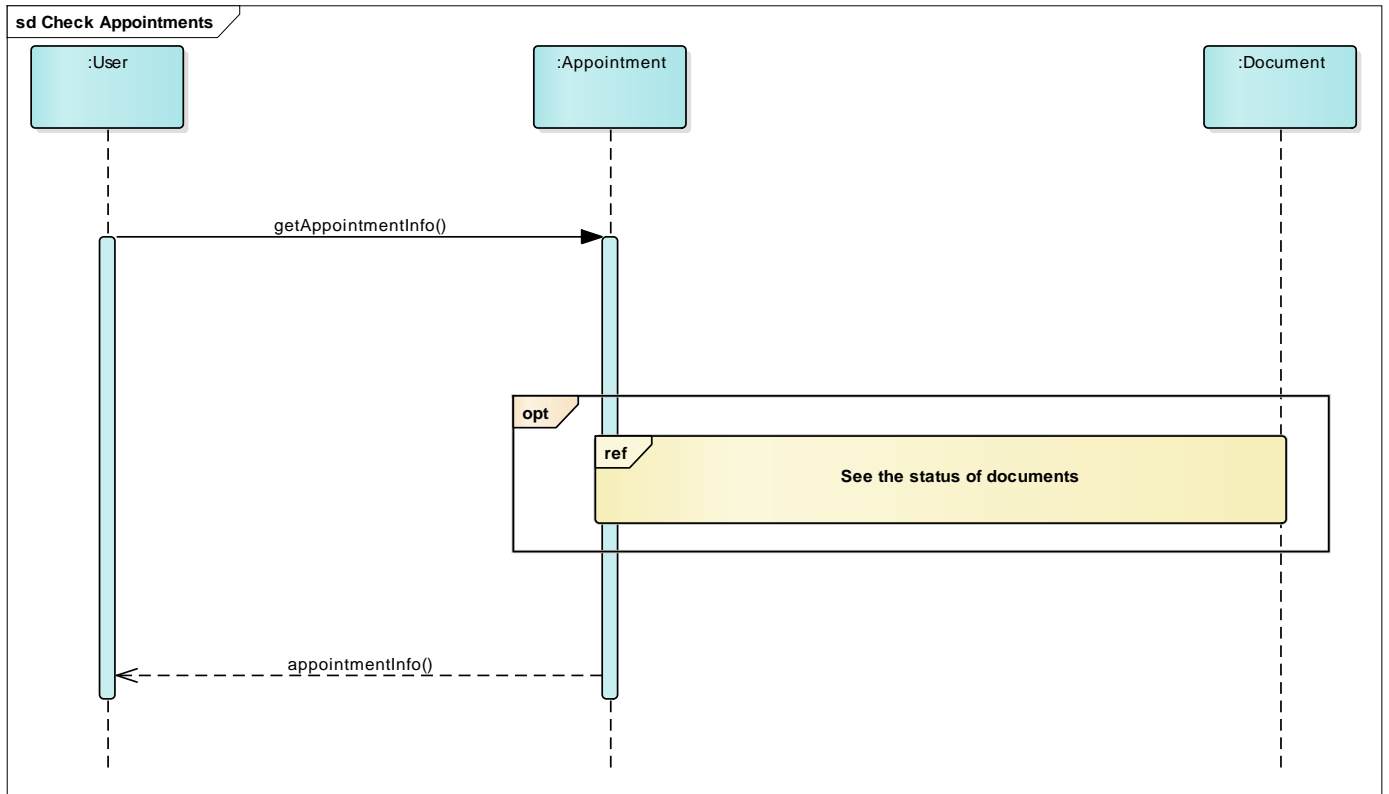
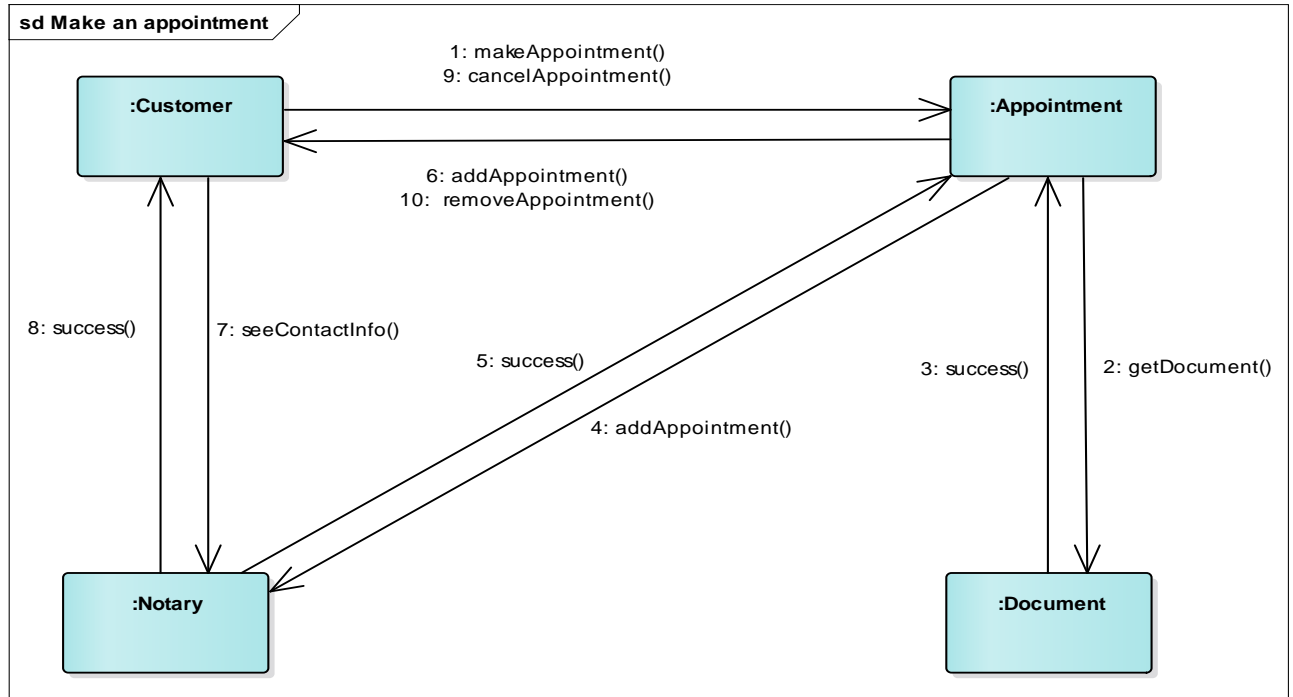## 3.8.4. Sequence Diagram 4: See the status of documents

3.8.5. Sequence Diagram 5: Update the status of document
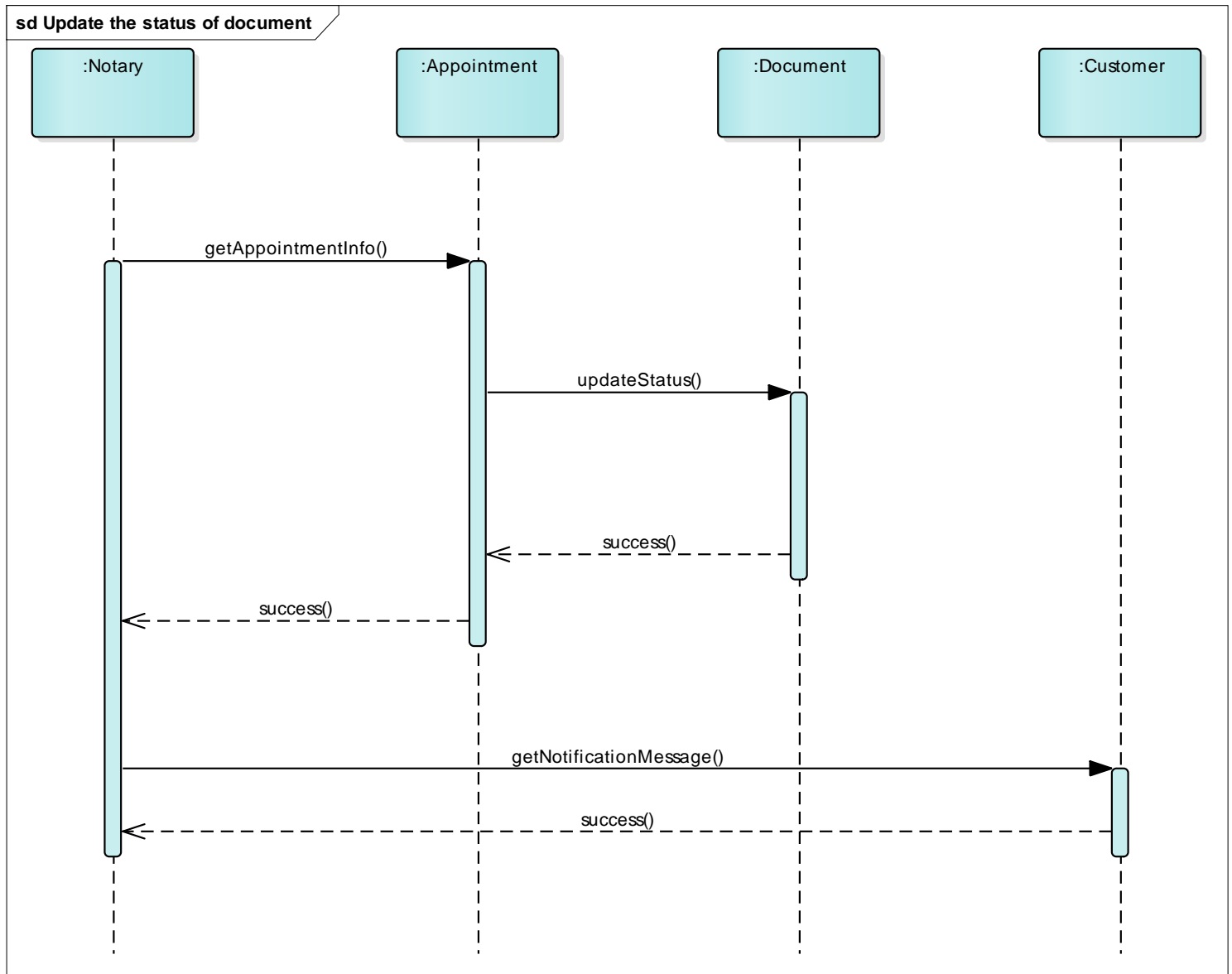
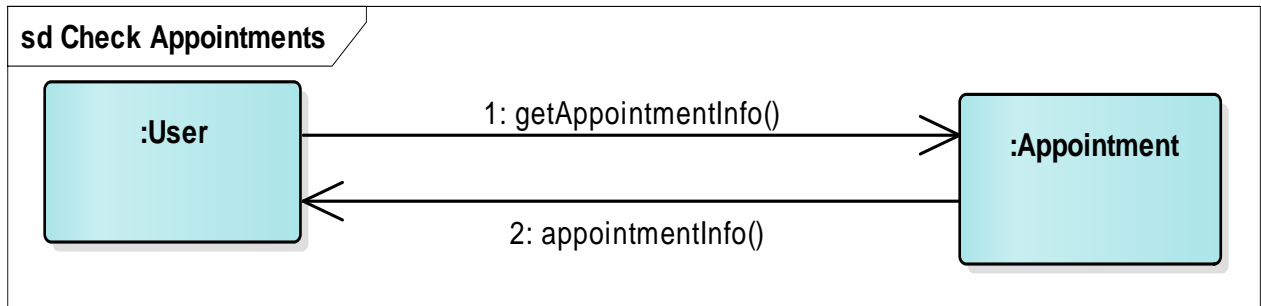## 3.9. Communication Diagrams
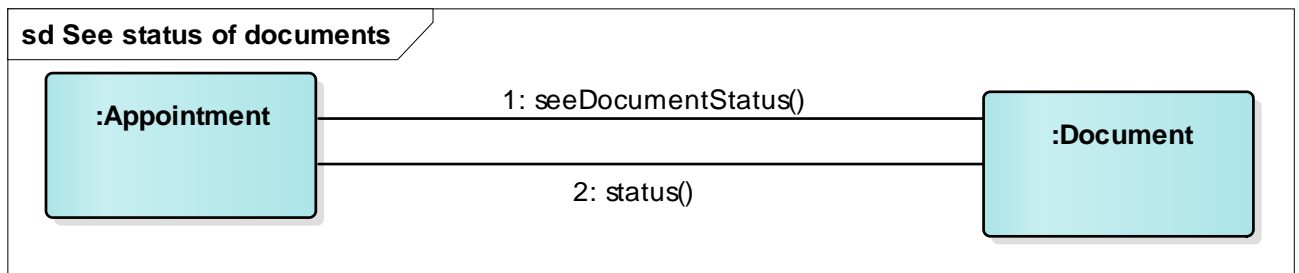
3.9.1. Communication Diagram 1: Make an appointment

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3.9.2. Communication Diagram 2: Check Appointments

sd Check Appointments

:User

1: getAppointmentInfo()

:Appointment

2: appointmentInfo()

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3.9.3. Communication Diagram 3: See status of documents

sd See status of documents

:Appointment

1: seeDocumentStatus()

2: status()

:Document

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3.9.4. Communication Diagram 4: See the necessary documents

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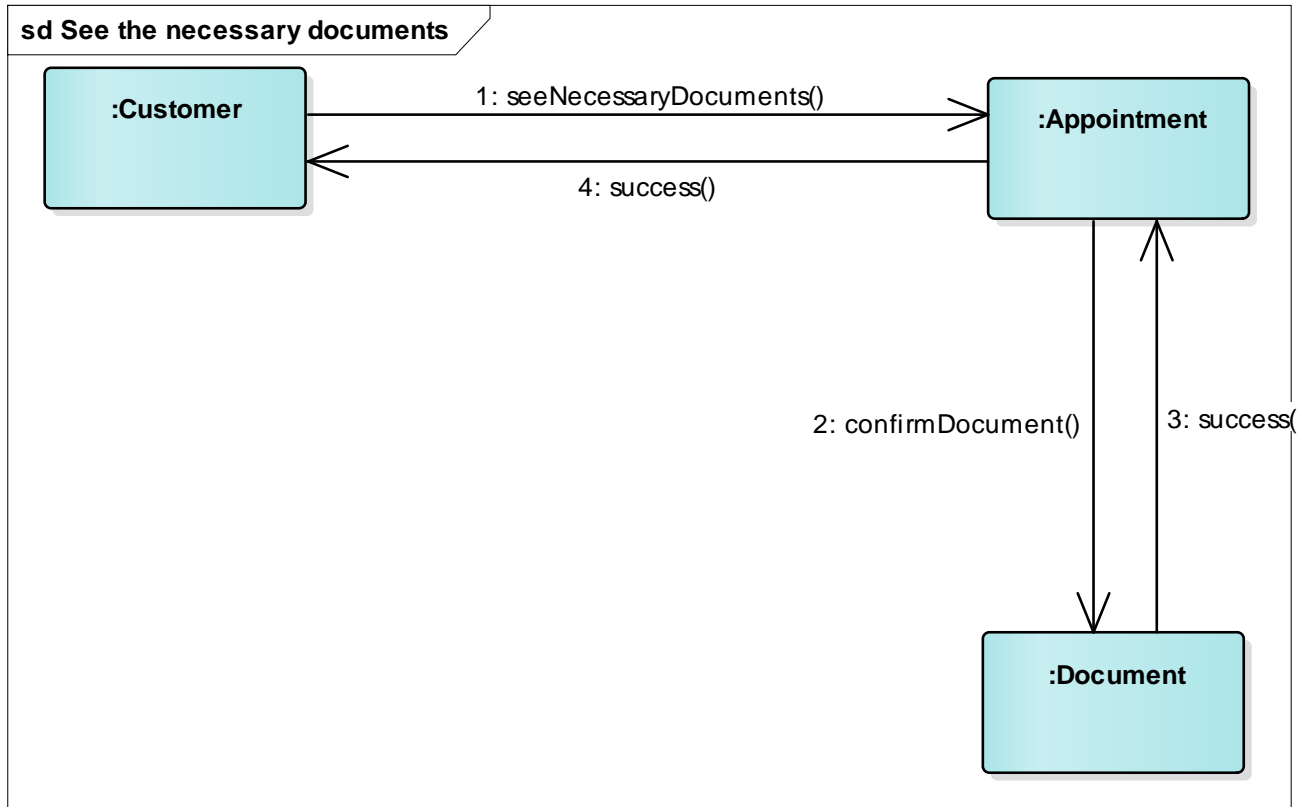
3.9.5. Communication Diagram 5: Update the status of documents

sd Update the status of documents

:Notary	:Appointment

1: getAppointmentInfo()

4: success()

5: getNotificationMessage()

6: success()

2: updateStatus()

3: success()

:Customer
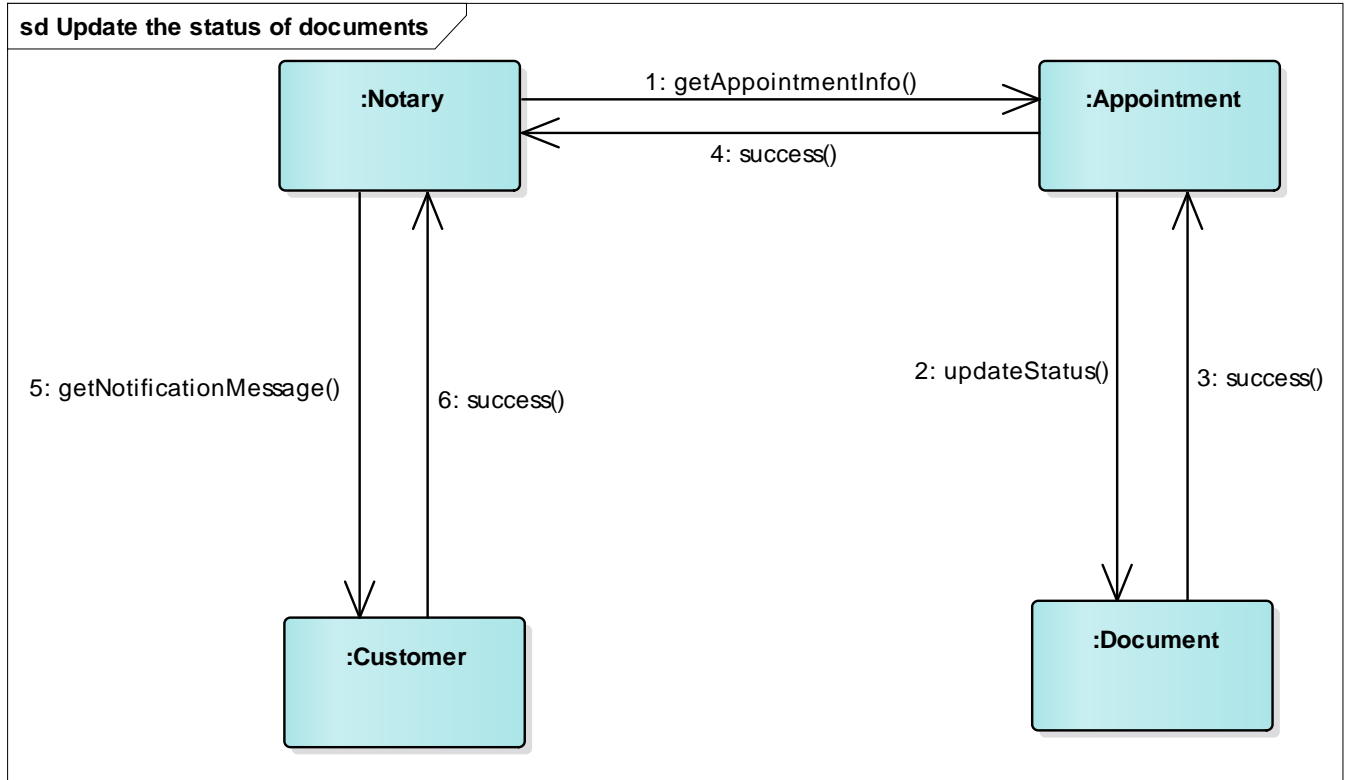
:Document

4. Conclusion

We specified and designed the Notary Administration System Project. The Notary Administration System is designed to make it easy for clients to get information about the status of work files and show the necessary documents to the customer before they come to the notary office. The aim of the system is solving the long waiting time at the notary's office. When the customers wait too much at the notary office, dispute may arrise and it slow things down.