

ASSIGNMENT - 1

ACS-2913-002 : Software Requirements Analysis And Design

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Group – 11

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1)

Agile Use Case Descriptions

1)

Use Case: Create User Account

Scenario: As a user, I want to create an account on **National Historical Tour Site (NHTS)** app by entering my information, so that I can access the features and services provided.

Use Case Description:

Goal: To create an account on the NHTS system by prompting user to enter their information.

Pre-Conditions:

- 1) The user must have access to internet and portable device with NHTS app installed or NHTS site opened.
- 2) The user must select option to create an account.

Triggering event: The user decides to create an account.

Post-Conditions:

- 1) The User's information is successfully prompted by system and stored in database.
- 2) A unique account number is automatically generated and assigned to the user.
- 3) The User's account is created and activated.

Actors:

- 1) Tourist/ Users
- 2) Customer Representative
- 3) Site guides

Stakeholders:

- 1) Tourist/ Users (External Stakeholders)
- 2) Customer Representative (Operational Stakeholders)
- 3) Site guides (Operational Stakeholder)

Main Flow of Events:

- 1) The user Access the NHTS app or website.
- 2) The user selects the option of creating an account.
- 3) The system prompts user for the following information:
 - 1) Full Name
 - 2) Address
 - 3) Phone number.
 - 4) Email address.
- 4) The user enters their information into system.
- 5) The system validates the information and provide a unique account number to user.
- 6) The system notifies the successful account creation and allows user to access the features and services of the app.

Exceptional Conditions:

- 1) If the entered information is invalid or incomplete, the system prompts the user to correct the errors.
- 2) If there are technical difficulties during account creation, the user may need to try again later or contact support for assistance.
- 3) If the user already has an existing account, the system may prompt them to log in instead of creating a new account.

2)

Use Case: Create AR Tour Group

Scenario: As a tour guide using **National Historical Tour Site (NHTS)** app, I want to create an AR (Augmented Reality) tour group for visitor so that they can experience the historical sites in an interactive and engaging manner at any place of their convenience.

User Case Description:

Goal: To create an AR group for visitors/ tourists.

Pre-Conditions:

- 1) The user must be logged into the app as a tour guide.
- 2) The user must select option for AR group creation.

Triggering Event: The tour guide decides to initiate a AR tour group to enhances the tourist and visitor's experience.

Post-Conditions:

- 1) The AR tour group is successfully generated with unique group id with ability to add more group members into it.

Related Use Cases:

- 1) Join AR Tour Group
- 2) Manage AR Tour content.

Actors:

- 1) Tour Guides
- 2) Visitor/Tourists

Stakeholders:

- 1) Tour Guides (Operational Stakeholders)
- 2) Visitors (External Stakeholders)

Main Flow of events:

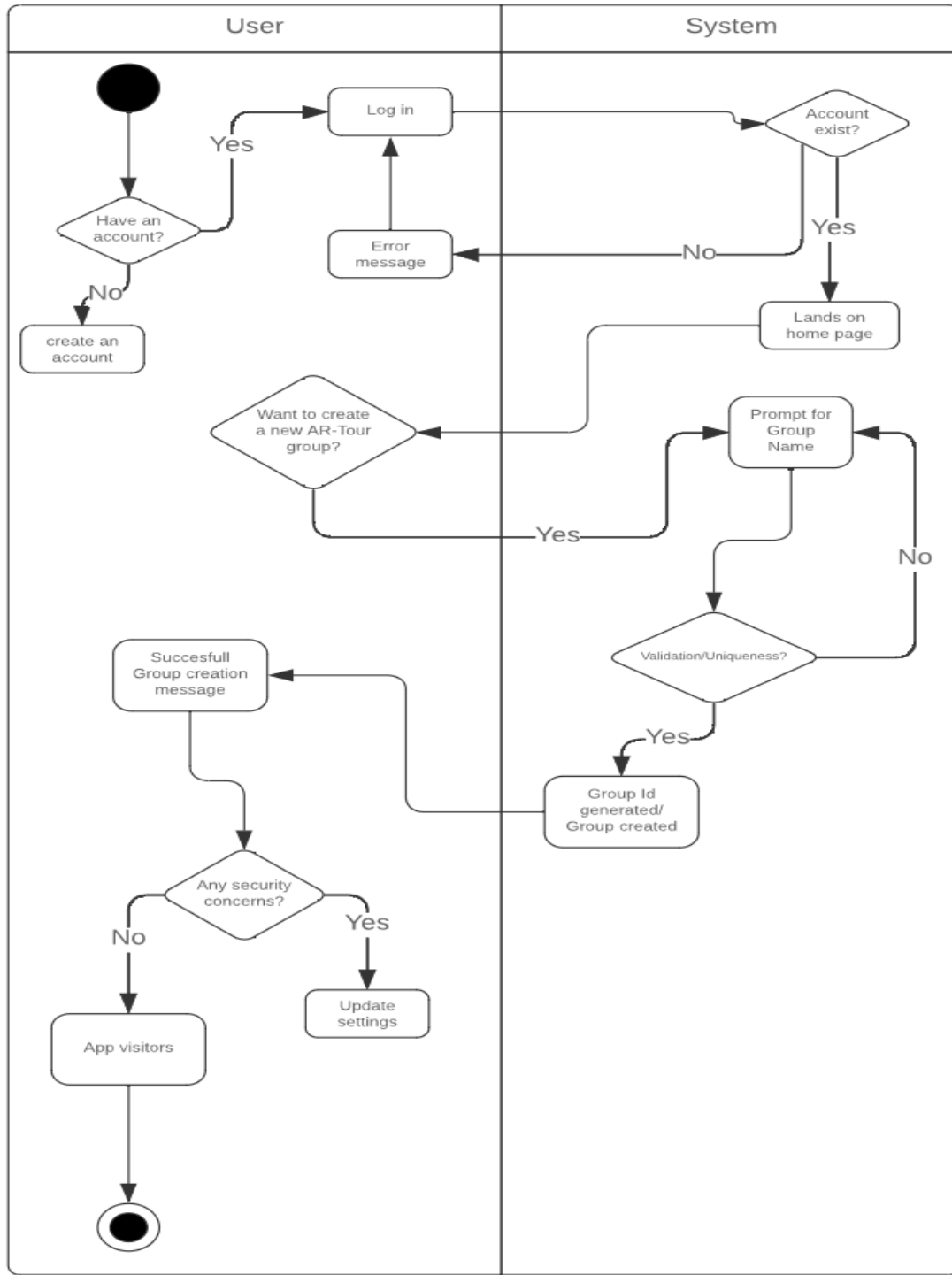
1. The actor i.e., tour guide launches the application on their device.
2. They select the option to create a new AR tour group.
3. The system asks the user to enter a valid input as the AR tour group name.
4. The tour guide enters the name.
5. The system performs validation task to check for uniqueness and availability of the desired name.
6. Upon validation of the name, a system automatically generates a unique group identifies.
7. The tour guide confirms the creation of AR tour group, which is now active and ready for visitors to join.

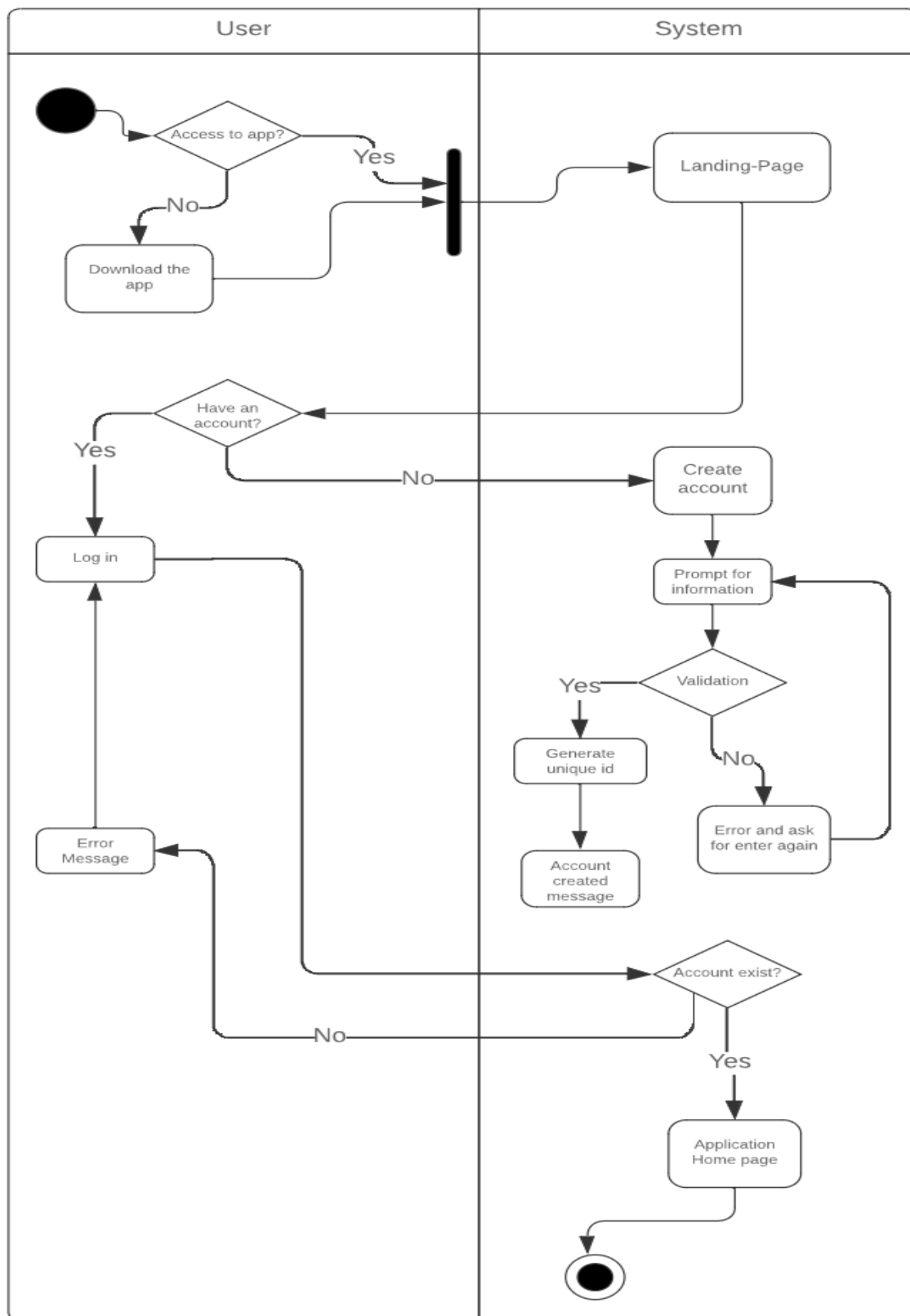
Exceptional Conditions:

- 1) If any technical difficulties arrive, the tour guide may need to report a system issue to development and support team.
- 2) If privacy or security concerns arrive or needs to be adjusted, the guide need to modify the group setting accordingly.

2)

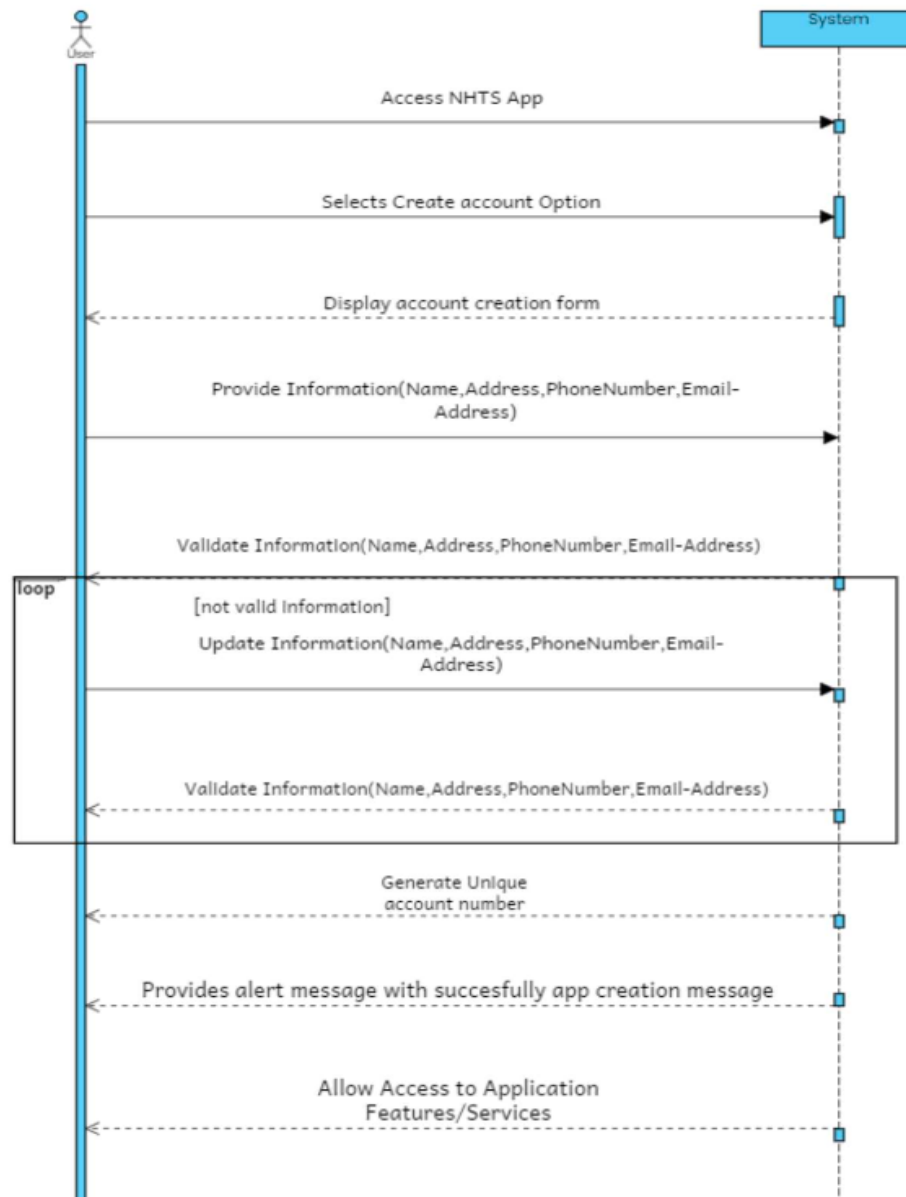
Agile Activity Diagrams

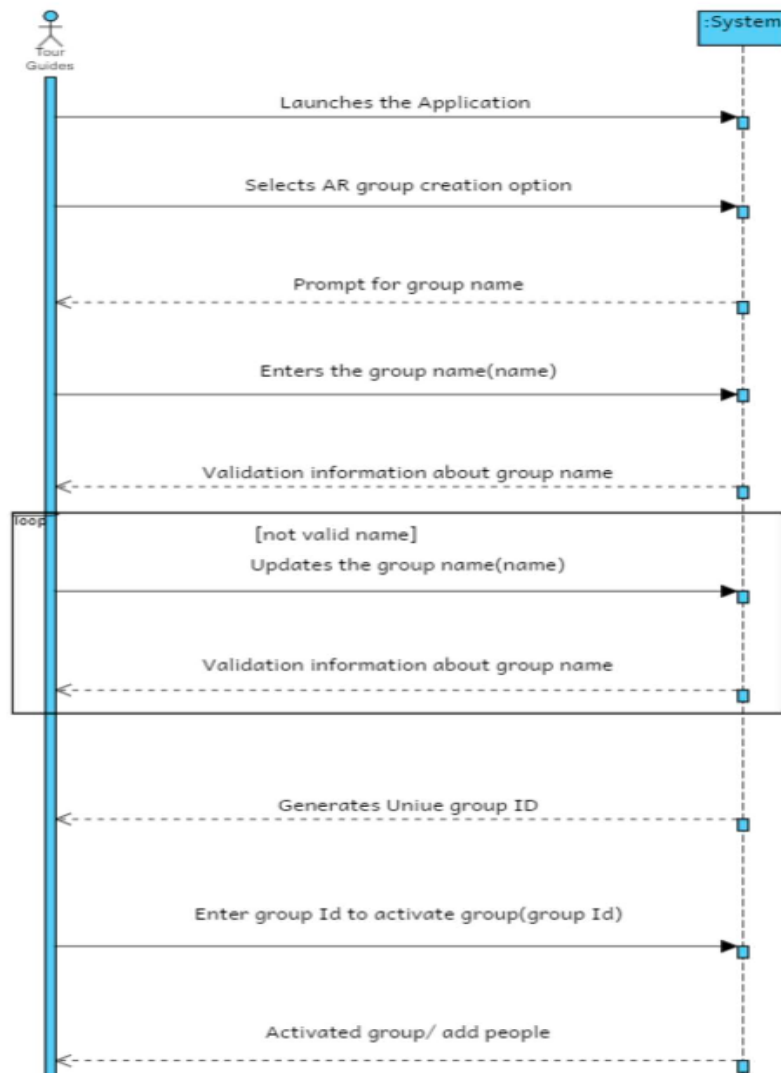




3)

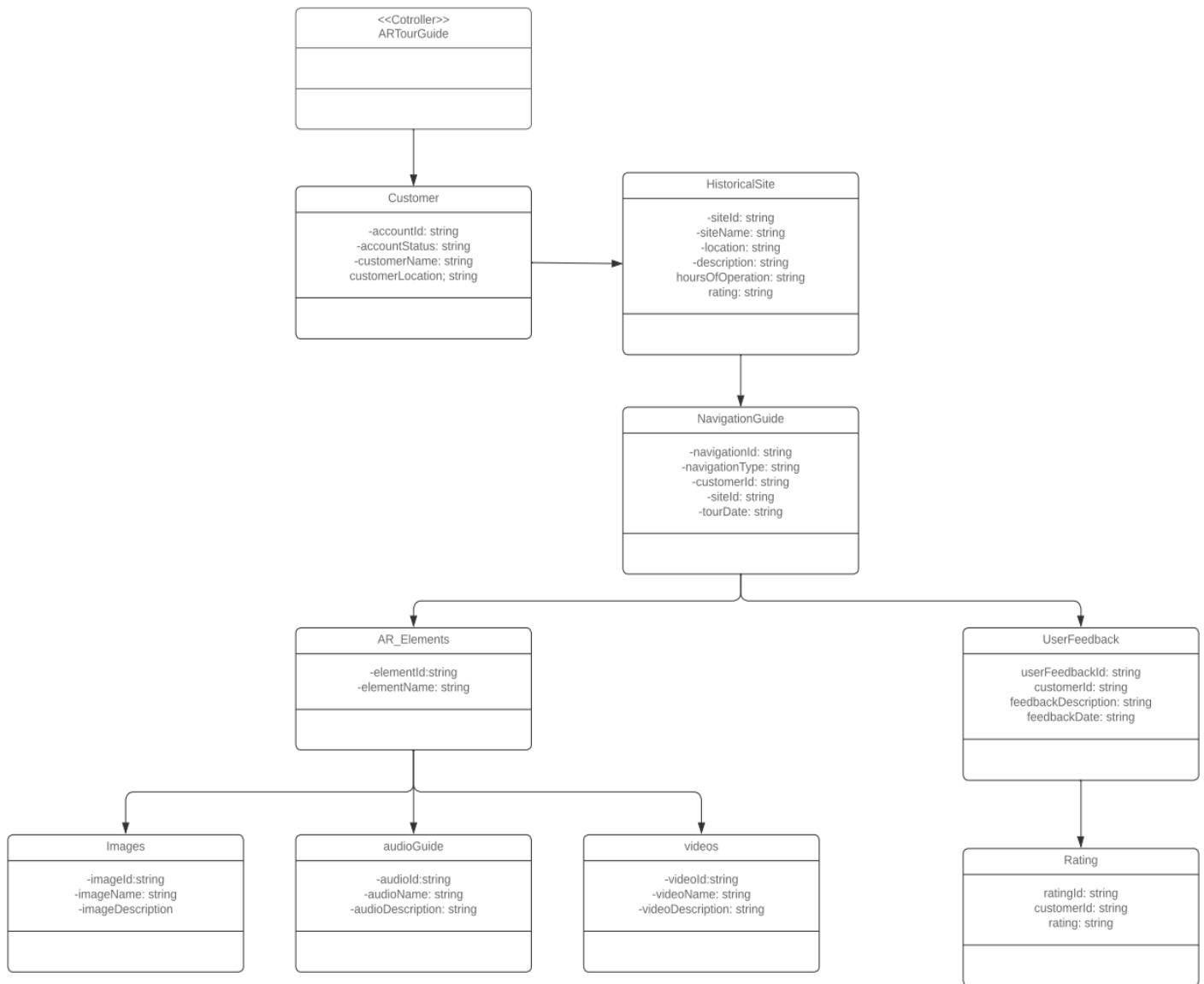
Agile System Sequence Diagrams (SSD)





4)

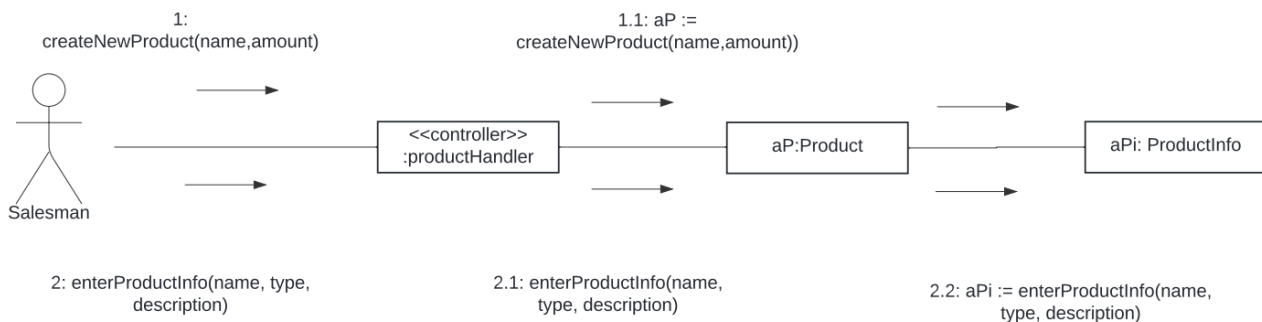
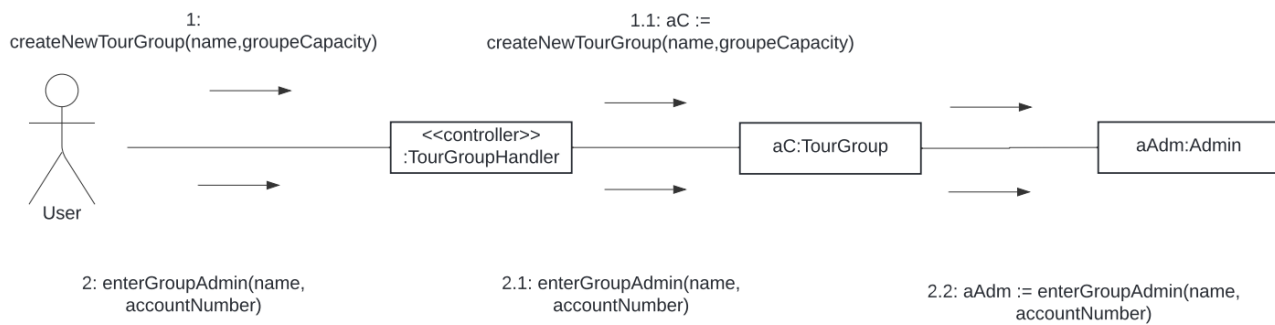
Agile First Cut Design Class Diagram:



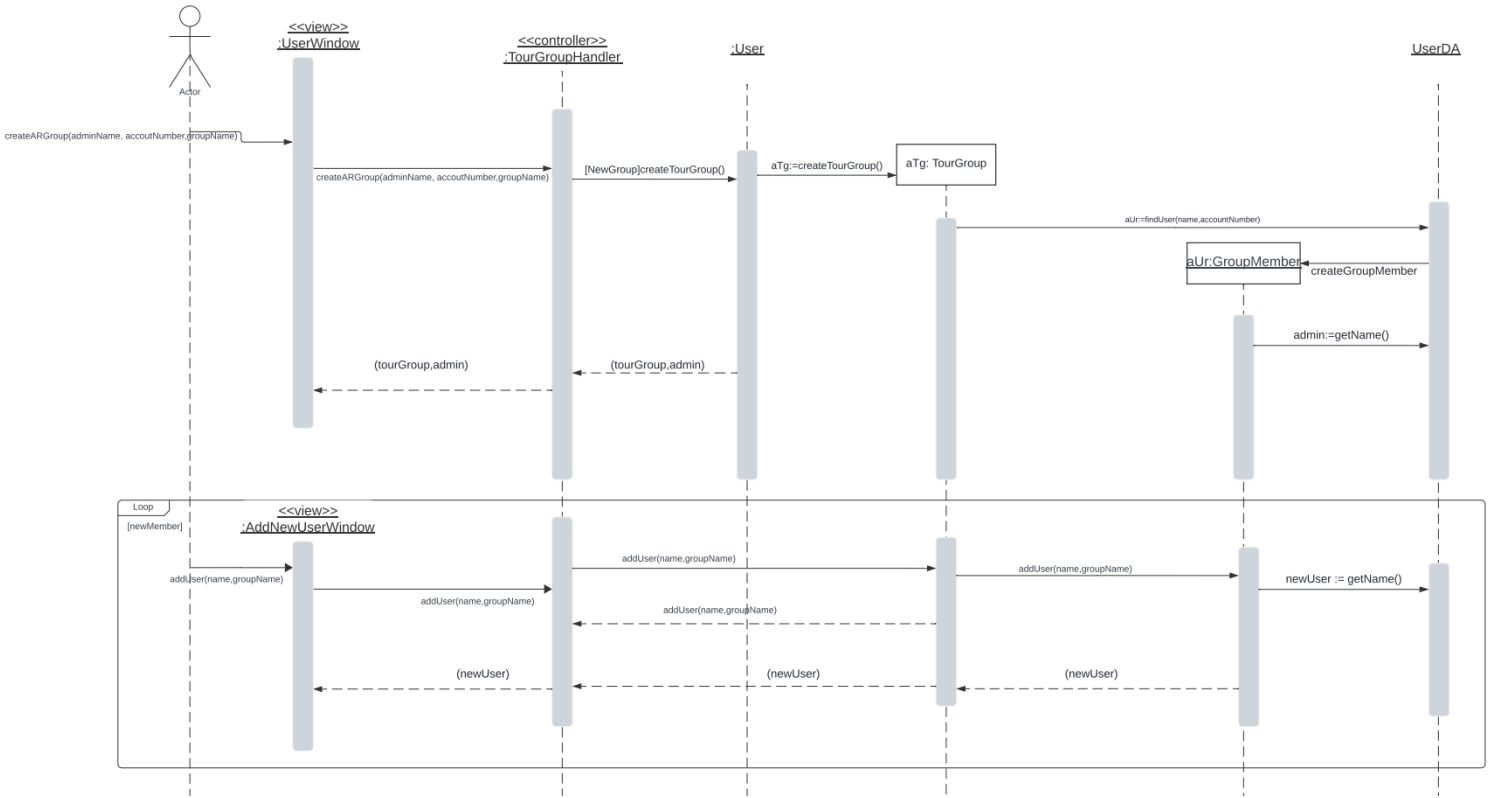
5)

Agile CRC Cards and Sequence/Communication Diagram:

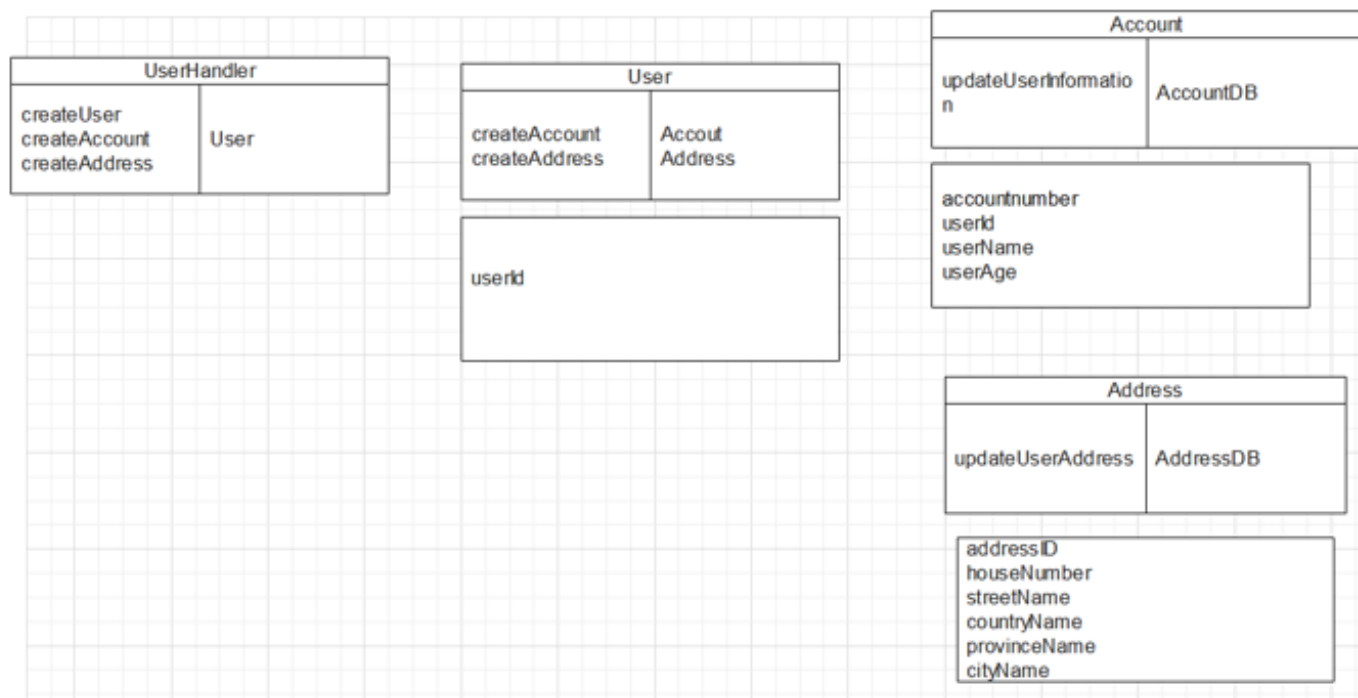
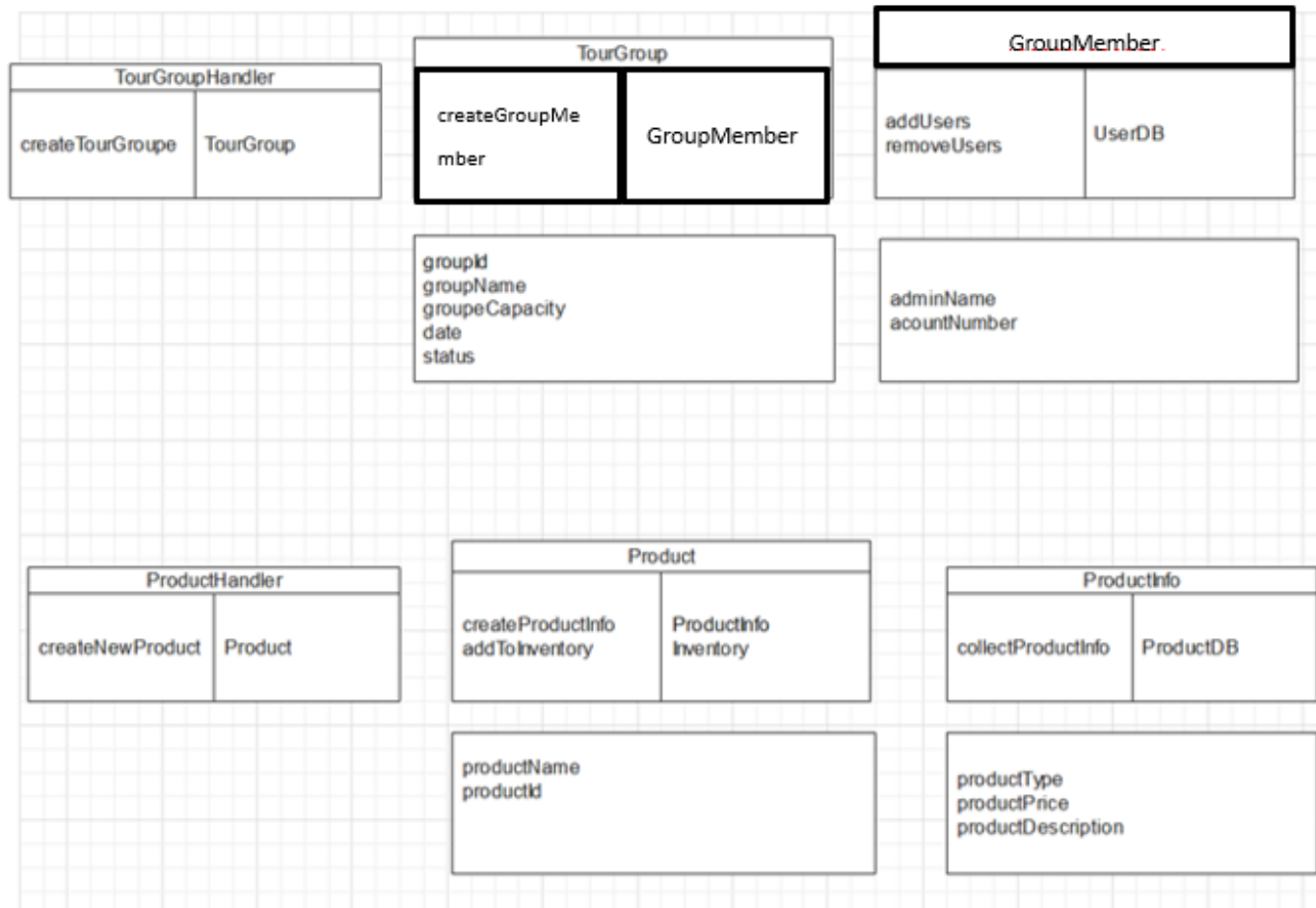
Communication Diagram for creating a new tour group and creating a new product:



Sequence Diagram for creating a new tour group:

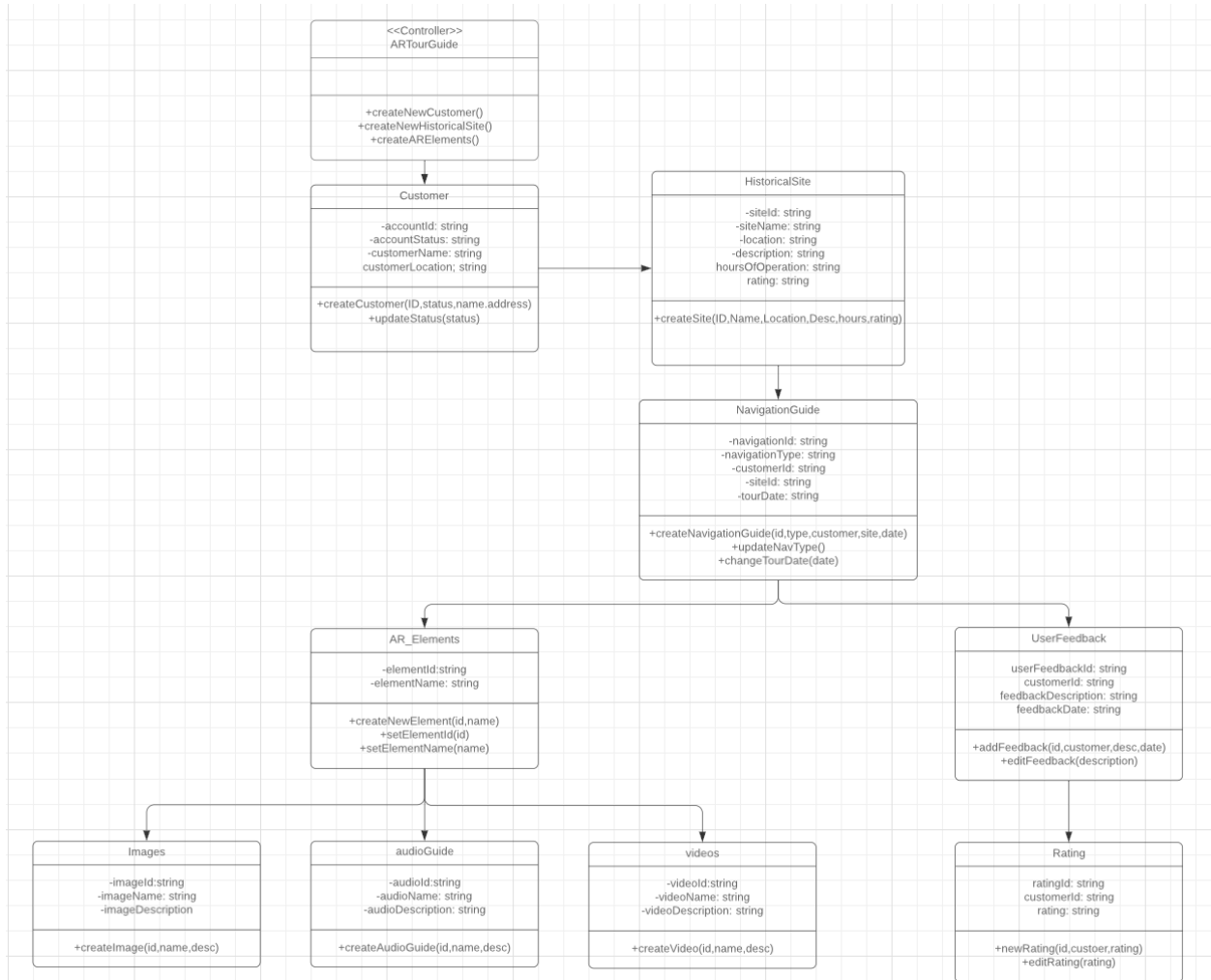


CRC cards for creating an account, creating a new tour group and adding a new product.



6)

Agile Fully Developed Design Class Diagram



7)

Agile Class Package Diagram

