Kingdom of Saudi Arabia
Ministry of Education Prince Sattam Bin Abdulaziz University College of Computer Engineering and sciences

جامعة الأمير سطام بن عبد العزيز
PRINCE SATTAM BIN ABDULAZIZ UNIVERSITY

المملكه العربية السعوديه
وزاره التعليم
جامعة الأمير سطام بن عبد العزيز
كلية هندسة وعلوم الحاسب

Projec:
Absher application

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شعبة:742

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Year:2023

1.Feasibility Study &Project Proposal:

Introduction:

"Absher" is a mobile application designed to facilitate communication between citizens and government entities in Saudi Arabia. The app offers a wide array of government services and information conveniently and easily accessible. Users can access personal information through this platform.

Problems:

The issue of time and effort, the challenge of government information accessibility, the difficulty in tracking transactions.

Background:

Absher application is a technology solutions company owned by the Saudi Arabian government. Founded in 2005, Absher application contributes to Saudi Arabia's Vision 2030 initiative, focusing on the development of digital infrastructure and the improvement of e-government services.

Proposed solution:

The app aims to address the time and effort expended by individuals when accessing government services by simplifying and optimizing transactions, ultimately saving time. Additionally, it will offer users access to essential government information and enable them to track and oversee their transactions.

Work Plan

Project Goals	1. Facilitating for the visitors2. simplifying and optimizing transactions…etc.
Task Allocation	The task was distributed among us, and we helped each other.
Is there a similar application to it?	There is no similar application.

2.Project requirements:

Functional Requirement (FR):

1.User Registration: The Absher application must incorporate a user registration feature enabling individuals to create an account by inputting personal details like their name, ID number, and contact information.

2. Authentication and Security: The application should deploy a robust authentication system, possibly incorporating two-factor authentication, ensuring that only authorized users can access their accounts and government services, prioritizing security.

3. Government Service Catalog: The Absher application should encompass an extensive catalog of government services accessible to users. This catalog should encompass various services such as ID card renewals, visa applications, vehicle registrations, and other pertinent government transactions.

4. Service Request and Submission: The application should allow users to electronically submit service requests, which includes uploading necessary documentation and completing mandatory forms directly within the application interface.

Non-Functional Requirement (NFR):

1. Usability: The Absher application should have a user-friendly interface and intuitive navigation to ensure ease of use for all users. It should be designed to accommodate users with varying technical abilities and provide clear instructions and guidance throughout the application.

2. Performance: The application should be highly responsive and provide quick access to government services. It should have minimal loading times and handle a large number of concurrent users without significant performance degradation.

3. Security and Privacy: The Absher application should prioritize the security and privacy of user data. It should implement robust security measures,

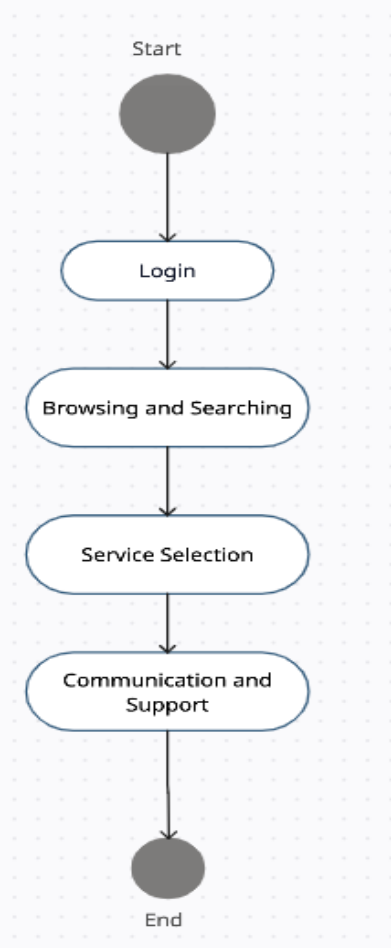
including encryption, secure data transmission, and protection against unauthorized access. It should also comply with relevant data protection regulations.

4. Accessibility: The application should be accessible to users with disabilities. It should adhere to accessibility standards and provide features such as screen reader compatibility, adjustable font sizes, and keyboard navigation options to ensure inclusivity for all users.

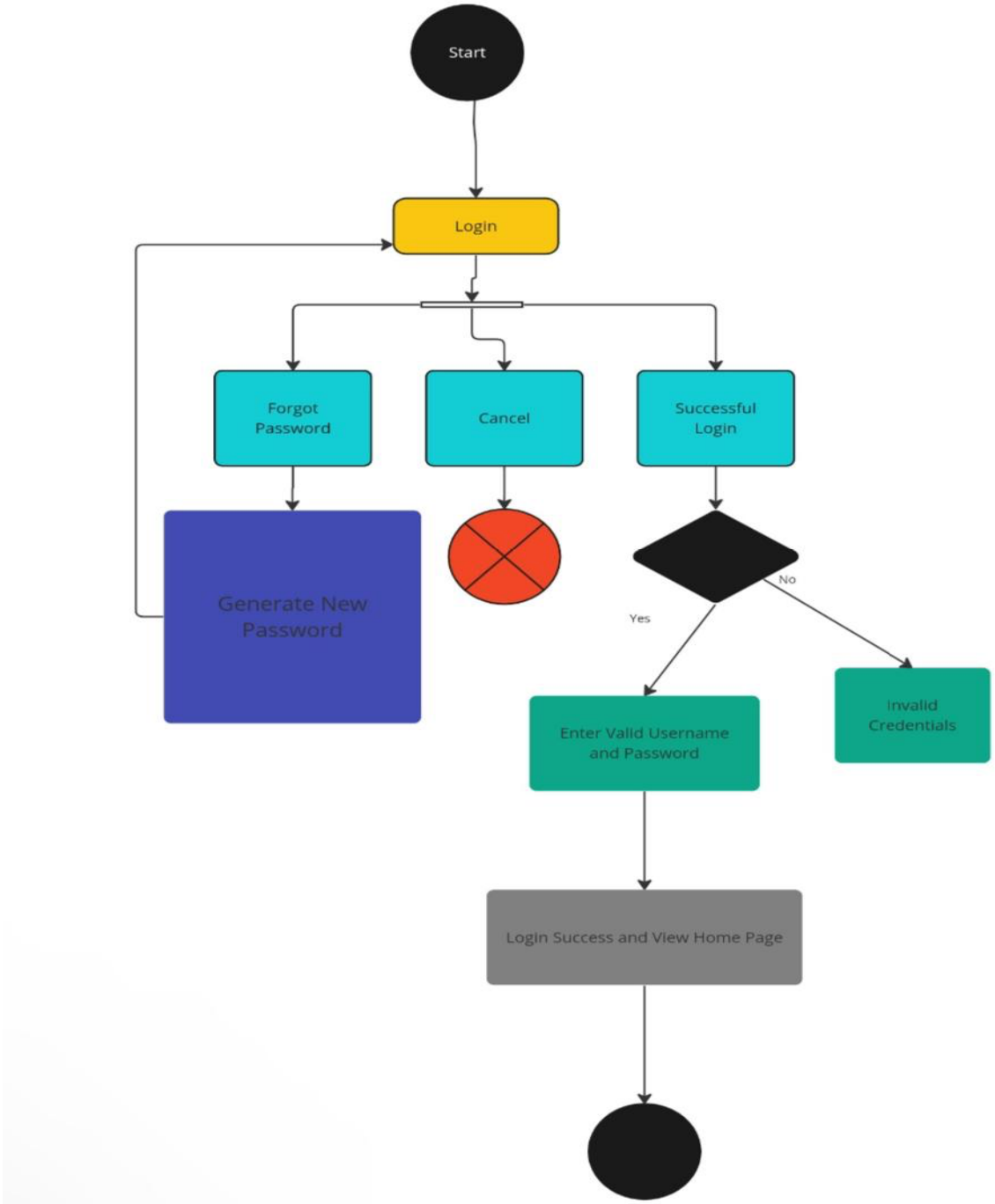
3.Activity diagram :

The flow of most processes:

(user) 1.Login 2.Browsing and Searching 3. Service Selection 4.Status Inquiry 5.Communication and Support

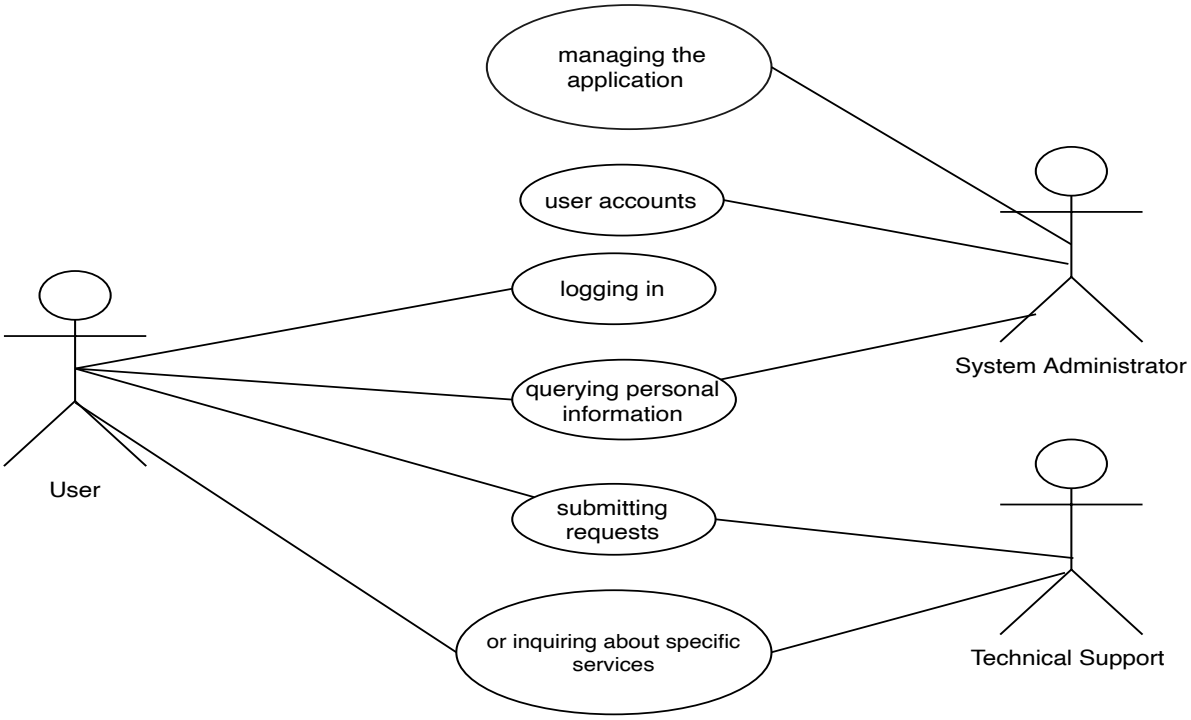


Start point / End point / Decision paths :


Start
Login
Forgot Password
Cancel
Successful Login
Generate New Password
No
Yes
Enter Valid Username and Password
Invalid Credentials
Login Success and View Home Page

4: Project Use Case Modelling:

Actors:



Use cases &its related use cases :

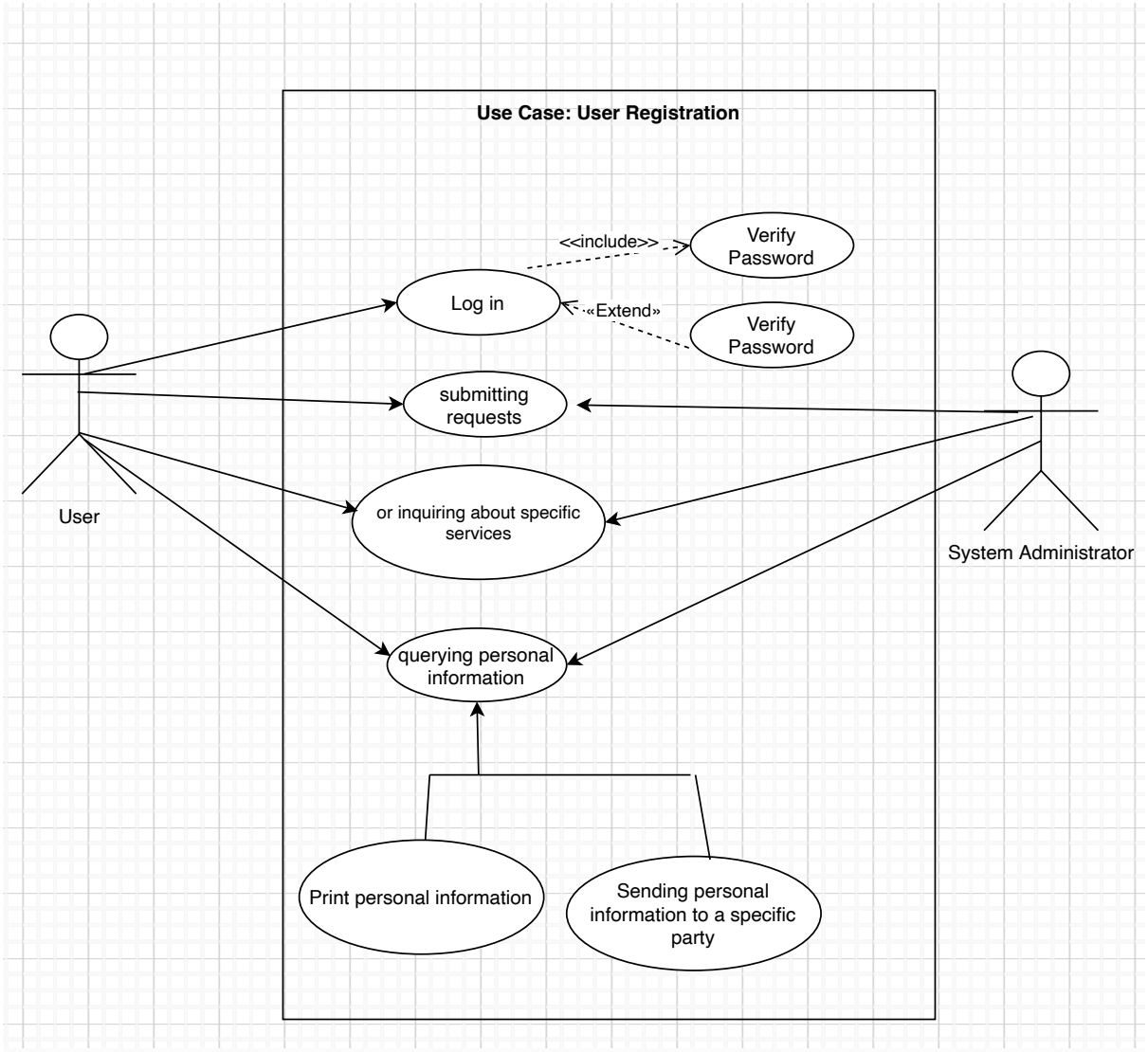


Table 1:

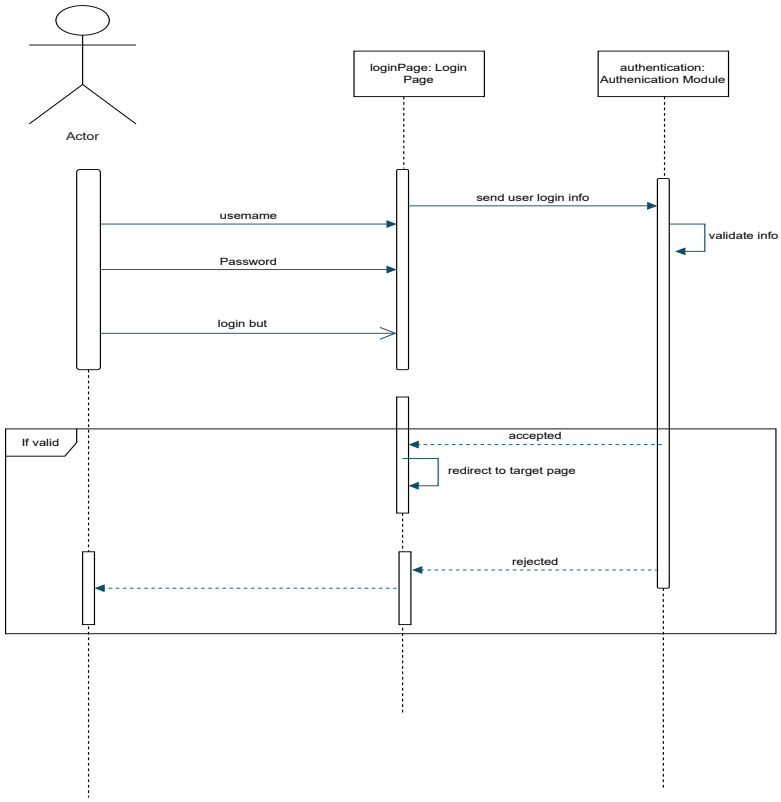
Use case name	Log in
Number	1
Actors	-User
Preconditions	Enter ID Number , Enter password
Flow of events	The information must be correct
Postcondition	You can choose on of the operation querying personal information... etc.
Exception	Error Number & password

Table 2:

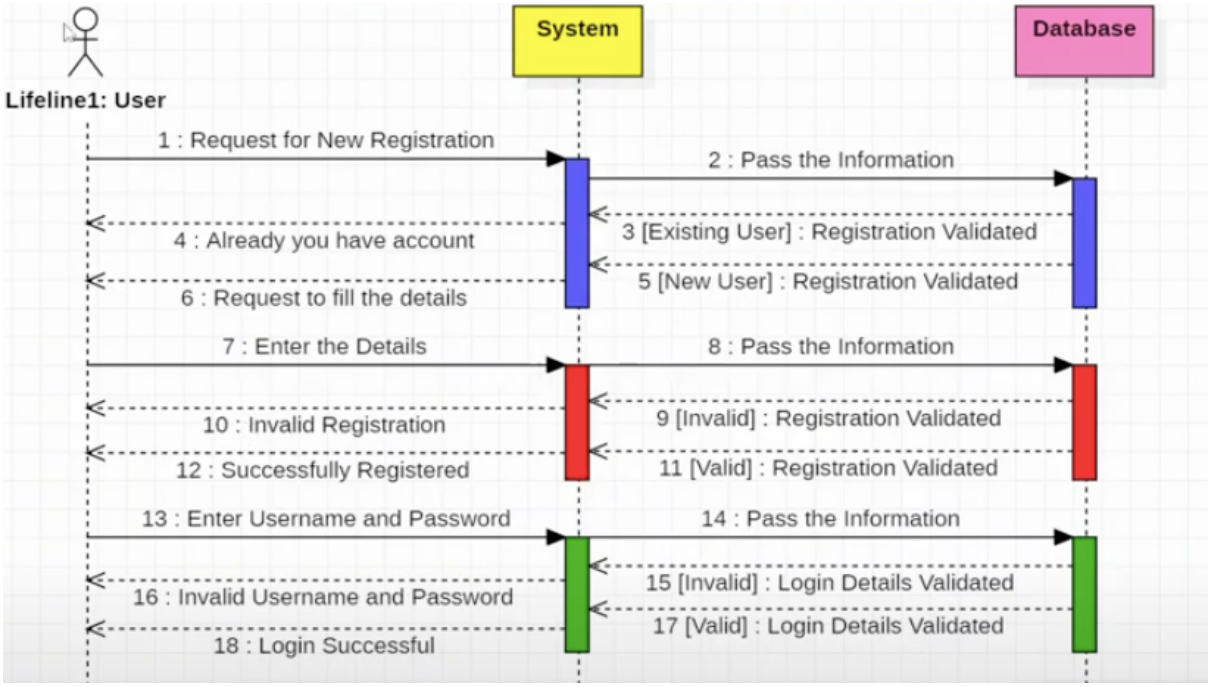
Use case name	submitting requests
Number	2
Actors	-User - System Administrator
Preconditions	You must be login
Flow of events	The information must be correct
Postcondition	You can choose on of the operation querying personal information... etc.
Exception	Error Number & password

5: Creating Sequence Diagrams:

Objects:

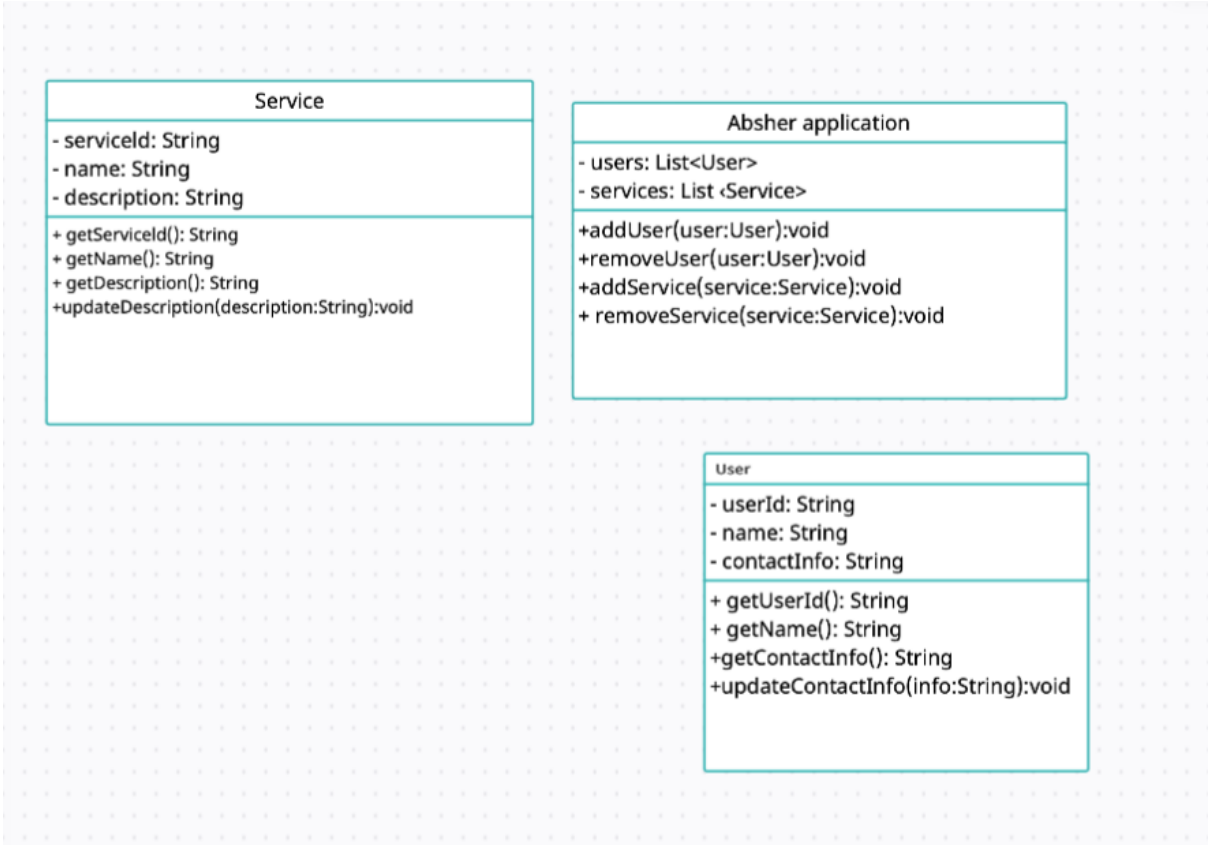


Messages:



6: Creating a Class Diagram:

Classes attributes + operations



Associations: