Kingdom of Saudi Arabia
Ministry of Higher Education
Prince Sattam Bin Abdulaziz University
College of Science and Human Studies
Al Aflaj Female Center
Computer Science Department

جامعـــة الأمـيـــر سطام بن عبدالعزيز
PRINCE SATTAM BIN ABDULAZIZ UNIVERSITY

1444هـ
2023

Project: Tawakkalna

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Student Name	The work of each student
Ghadah Jaeyez	All of chapter 1 and preparing the report
Hana Hadi	All of chapter 5 and preparing the presentation
Norah Hadi	All of chapter 3 and chapter 6
Wafa Safar	All of chapter 2 and chapter 4

chapter 1
Feasibility Study &Project Proposal

1.1 Introduction:

Introducing Tawakkalna, the Saudi government's app for managing infectious diseases. Access establishments with a digital health passport, stay updated on COVID-19 cases. Report symptoms and violations through real-time updates, control the spread. Join the movement towards a safer tomorrow in Saudi Arabia with Tawakkalna.

1.2 Problem:

The Tawakkalna application solves several problems in the context of the COVID-19 pandemic:

1. Health status verification and digital documentation of vaccination records and COVID-19 test results.
2. Facilitating contact tracing by utilizing Bluetooth and GPS technology to identify and notify individuals who have had close contact with. someone diagnosed with COVID-19.
3. Integration with government and private services to access them safely.
4. Issuing digital travel permits and licenses within the framework of health restrictions.
5. Promoting adherence to health protocols and reducing virus transmission.
6. Facilitating access to public spaces and various services based on health status.

The Tawakkalna application helps streamline and address various aspects of daily life and the health challenges associated with the COVID-19 pandemic.

1.3 Backgroun:

Tawakkalna is a mobile application designed for smartphones, web platforms, and other mobile devices. It facilitates the electronic granting of permits during curfew periods in response to the 2019 Coronavirus pandemic. The app is provided by the Saudi Data and Artificial Intelligence Authority and supports government efforts to control the spread of the virus. With over 27 million users, Tawakkalna has become widely utilized and essential in managing the pandemic.

1.4 Proposed solutions:

The Tawakkalna application, developed by the Saudi Arabian government, has played a significant role in managing and addressing the spread of the COVID-19 virus. In response to user feedback and evolving needs, several solutions have been proposed to enhance the user experience of the Tawakkalna app. These solutions include adding a vaccination passport feature to verify individuals' vaccination status, integrating a contact tracing system to identify potential COVID-19 exposures, implementing a user-friendly interface with multilingual support to cater to the diverse population in Saudi Arabia, and expanding the app's capabilities to include electronic payments for seamless transactions. These proposed solutions aim to enhance the effectiveness of the application in maintaining public health while ensuring convenience and accessibility for users.

1.5 Work plan:

Task Number	Task Name	Week	Date
1	Project reading and planning	1	29 Oct-4 Nov
2	Feasibility Study &Project Proposal **Chapter1**	1	29 Oct-4 Nov
3	Project requirementsProject **Chapter2**	3	12Nov-18 Nov
4	Activity diagram **Chapter 3**	3	12Nov-18 Nov
5	Project Use Case Modelling **Chapter4**	3	12Nov-18 Nov
6	Sequence Diagrams **Chapter5**	4	19 Nov-25 Nov
7	User Interface Design **Chapter6**	4	19 Nov-25 Nov
8	Preparing the report	In all weeks	19 Nov-25 Nov
9	Presentation preparation	5	25 Nov-30 Nov
Total		5weeks	Oct-Nov 2023

Chapter 2
Project requirements

2.1 Functional Requirements:

1)SYSTEM ADMIN

REGISTER
LOGIN
VIEW UESR
RESET PASSWORD
LOG OUT

2)USER

SING UP
LOGIN
VIEW SERVER
MANGE NOFICTION
MODFIY ACCOUNT
LOG OUT

3)COMPANY

LOGIN
LOG OUT
CREATE AN ACCOUNT
MANAGE ACCOUNT
SCHEDULES OF APPOINTMENT

2.2 NON-Functional Requirements:

Non-functional requirements or NFRs are a set of specifications that describe the system's operation capabilities and constraints and attempt to improve its functionality. These are basically the requirements that outline how well it will operate including things like speed, security, reliability, data integrity

1)Ease of use: The interface is uncomplex, clear to the user and easy to handle.

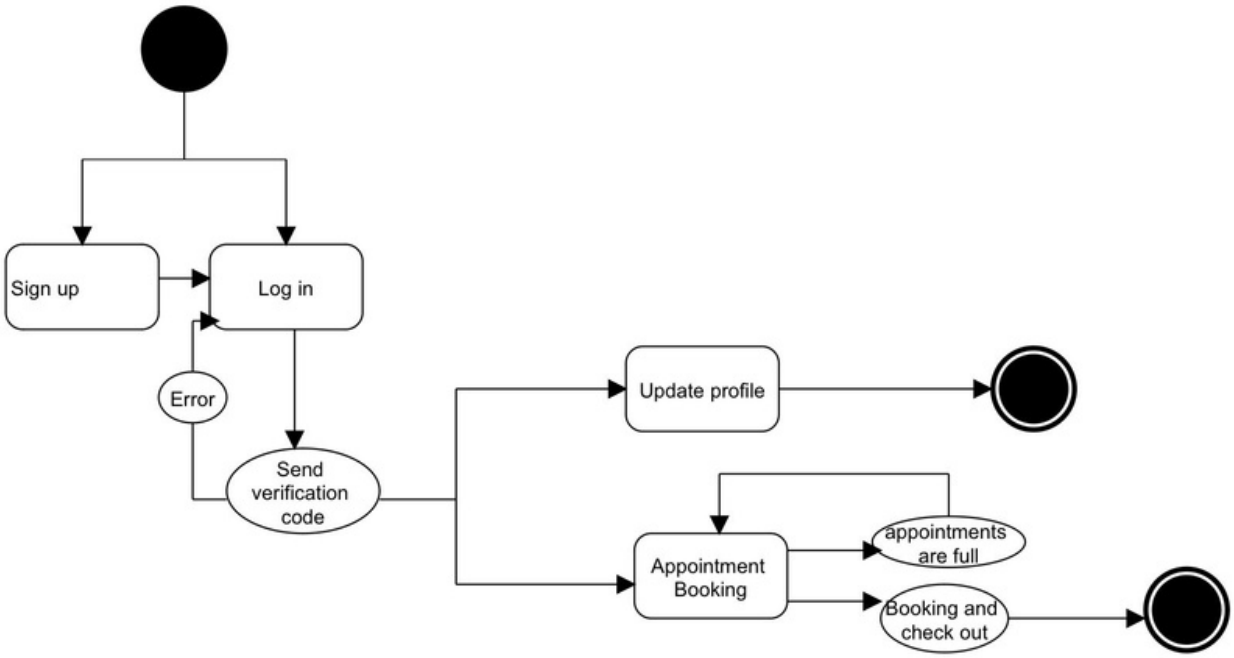
2)Privacy: The system must be designed with privacy in mind to protect users' data and prevent unauthorized access.

3)Security: Access to the various subsystems will be protected by a user log in screen that requires a user name and password.

4)Performance: Performance requirements define acceptable response times for system functionality. The load time for user interface screens shall take no longer than two seconds. The log in information shall be verified within five seconds.

Chapter 3
Activity diagram

3.Activity diagram:



DRAWING REFERENCE:

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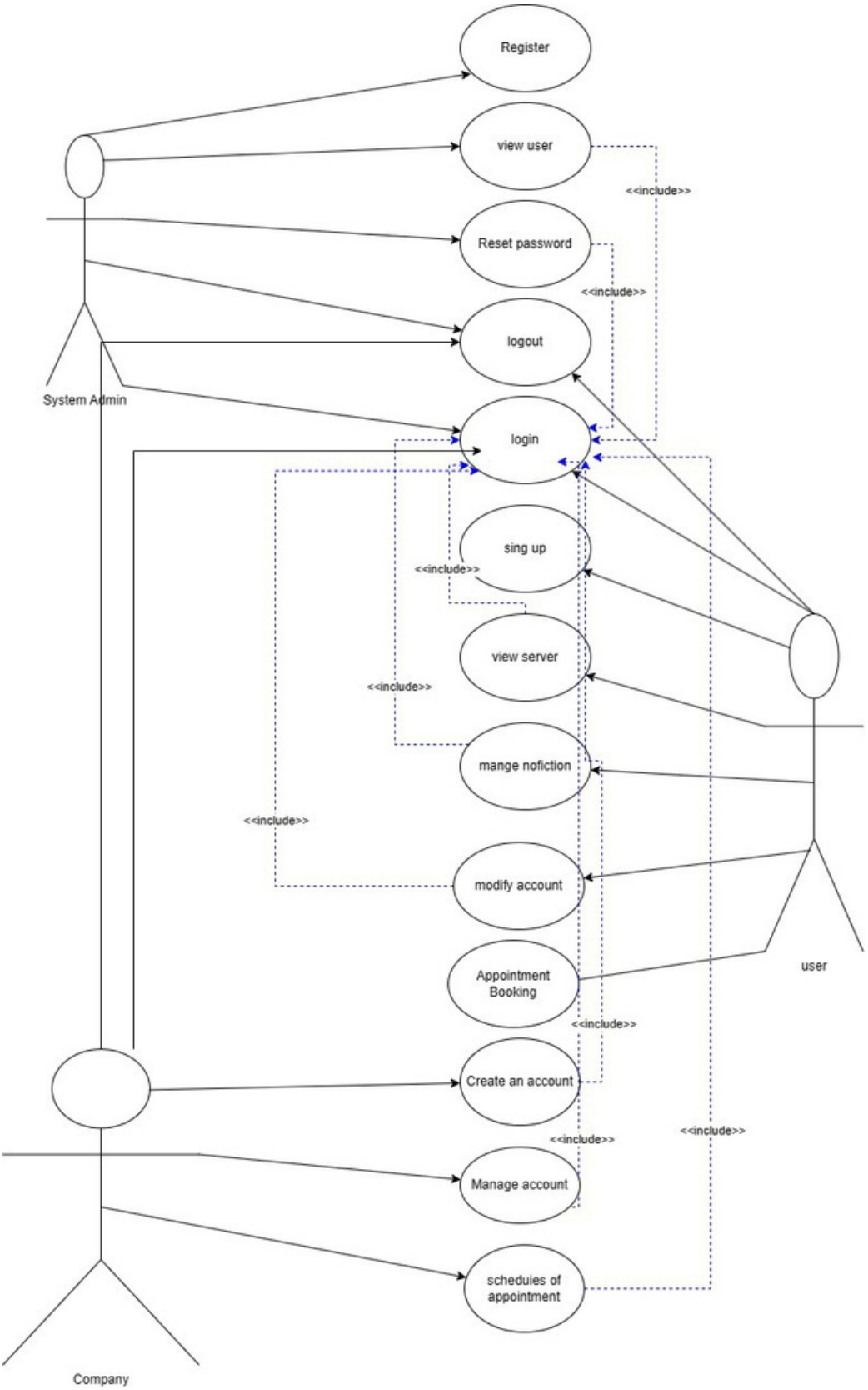
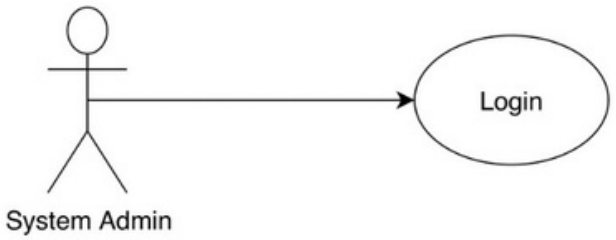
Chapter 4
Project Use Case Modelling

4.Project Use Case Modelling:



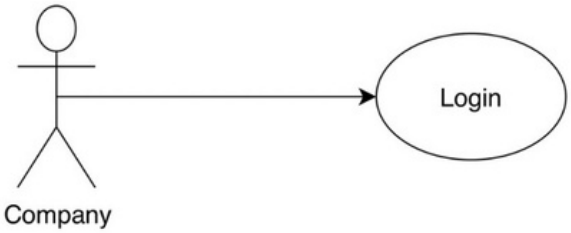
ACTOR	ROLES
SYSTEM ADMIN	REGISTER LOGIN view user Reset password log out
User	Sing up login view server mange nonfiction mobfiy account log out
Company	Login log out create an account manage account schedules of appointment

4.1Table 1:



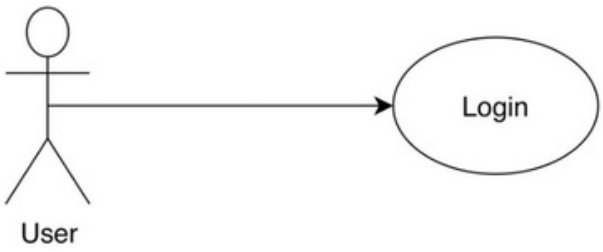
SYSTEM ADMIN:LOGIN	
ACTOR	SYSTEM ADMIN
DESCRIPTION	THE ADMIN ENTER HIS ID AND PASSWORD AND THEN CLIKS LOGIN
Data	ID,password
stimulus	The uesr wants to log in to the application
response	Login failure message:" the data entered is incorrect, try again " or login success message:" logged in successfully .

4.2 Table 2:



COMPANY :LOGIN	
ACTOR	COMPANY
DESCRIPTION	THE COMPANY ENTER HIS ID AND PASSWORD AND THEN CLIKS LOGIN
Data	ID,password
stimulus	The company wants to log in to the application
response	Login failure message:" the data entered is incorrect, try again " or login success message:" logged in successfully .

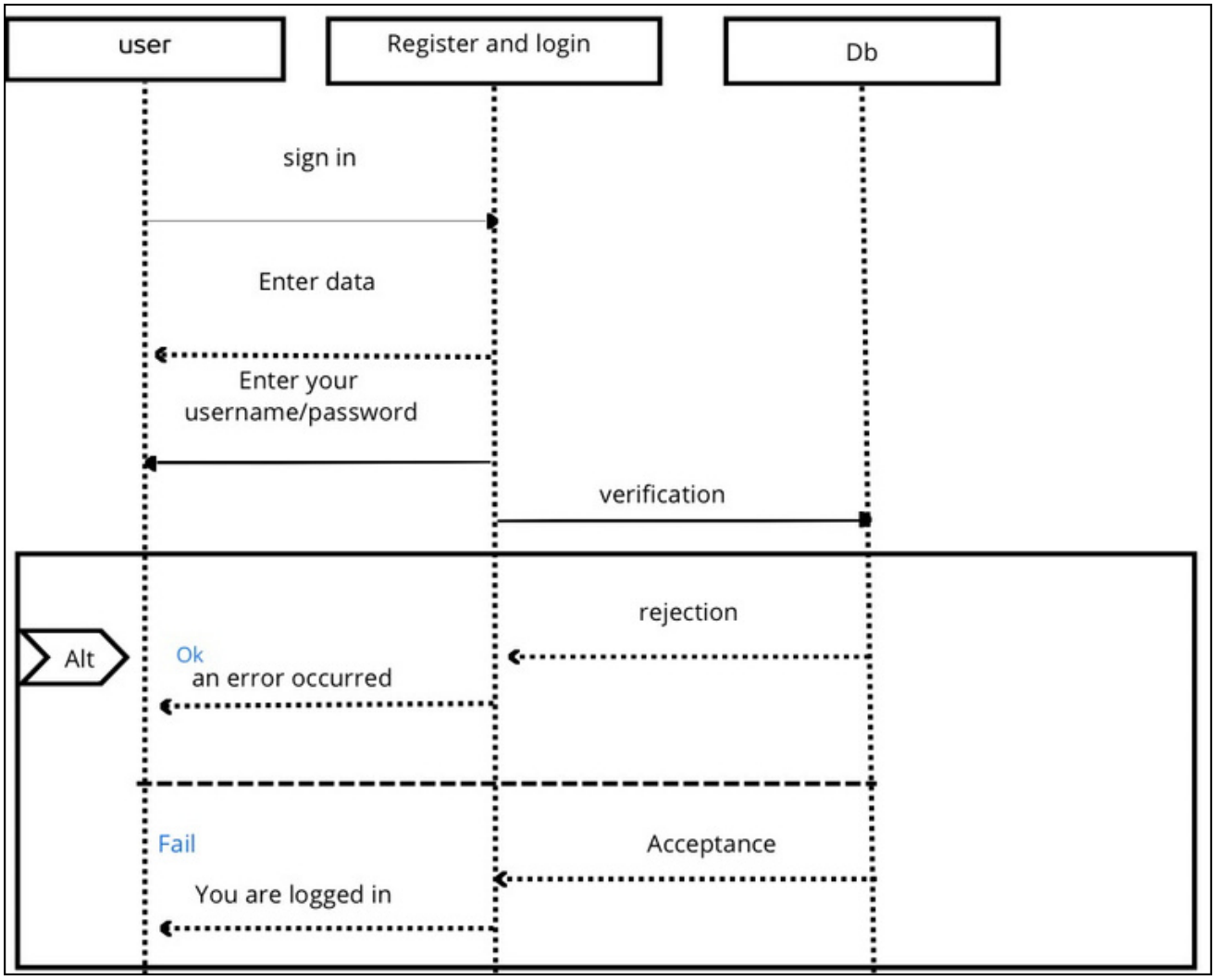
4.3 Table 3:



UESR:LOGIN	
ACTOR	UESR
DESCRIPTION	THE UESR ENTER HIS ID AND PASSWORD AND THEN CLIKS LOGIN
Data	ID,password
stimulus	The admin wants to log in to the application
response	Login failure message:" the data entered is incorrect, try again " or login success message:" logged in successfully .

Chapter 5
Sequence Diagrams

5.Sequence Diagrams:



DRAWING REFERENCE:

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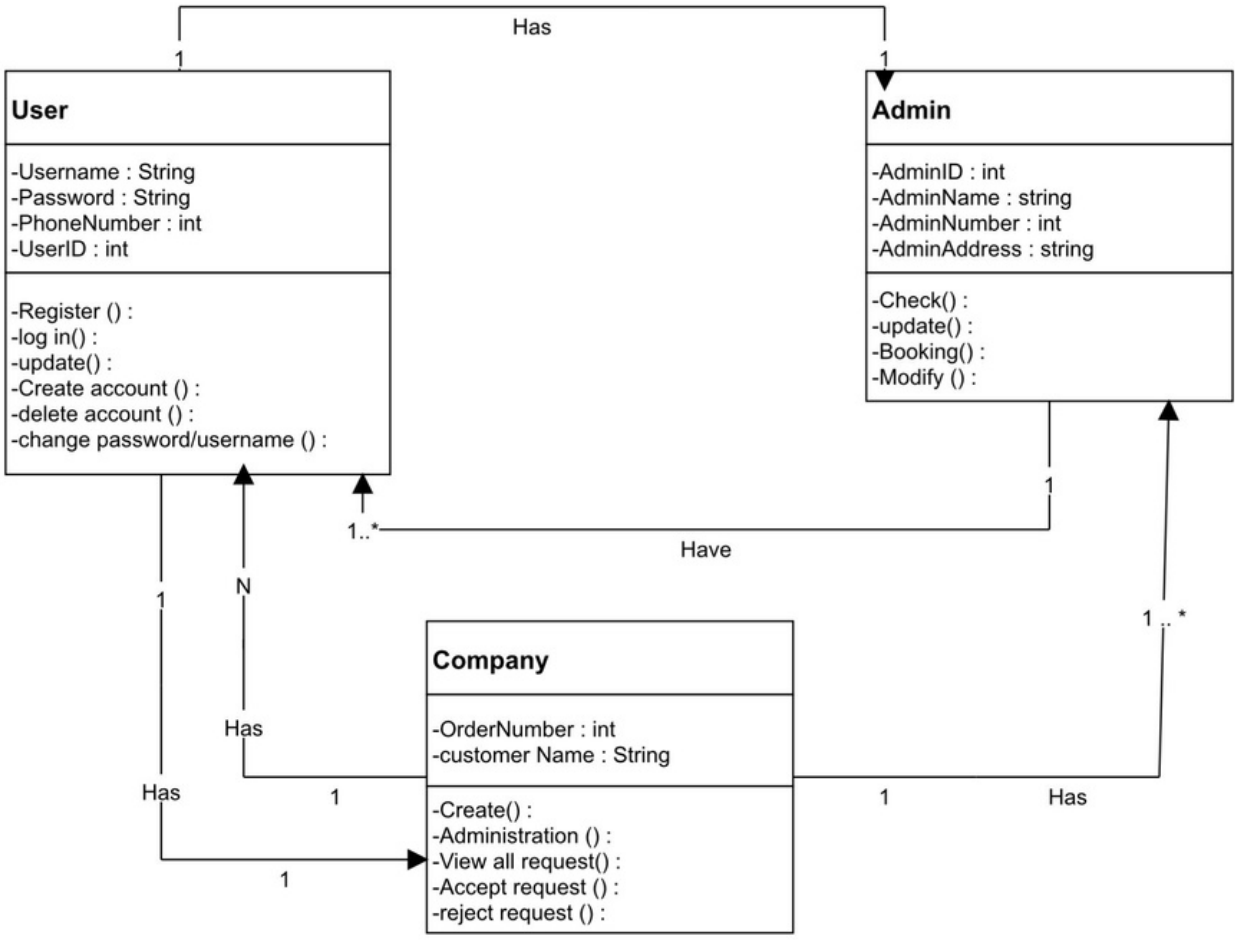
Chapter 6
User Interface Design

6.User Interface Design:



Thank you for reading the report