



Daffodil
International
University

DIU Covid -19 Vaccine App

Submitted By:

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181-35-2460

This **Project** report has been submitted in finishing of the requirements for the Degree of Bachelor of Science in Software Engineering.

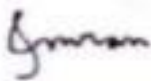
Department of Software Engineering

Daffodil International University

APPROVAL

This project titled “**DIU Covid -19 Vaccine App**” submitted by Sakib Aman (ID: 181-35-2460) to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

BOARD OF EXAMINERS



Chairman
Dr. Imran Mahmud
Associate Professor and Head Department of
Software Engineering Daffodil International
University

1

Internal Examiner

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Internal Examiner

External Examiner

DECLARATION

I hereby declare that I have taken this project under the supervision of Mr. Khalid Been Badruzzaman Biplob Lecturer (Senior Scale), Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for the award of any degree.

.....
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ACKNOWLEDGEMENT

To begin with, I would like to thank almighty Allah. I have taken endeavors in this project. It would not have been conceivable without the kind back and offer assistance of many persons. I would like to amplify my true appreciation to all of them.

I really obliged and desire my deep accountability to Mr. Khalid Been Badruzzaman Biplob, Lecturer (Senior Scale), Department of SWE, Daffodil International University, Dhaka.

Sound wisdom & penetrating interest of my supervisor in the field of “DIU Covid-19 vaccine App” to carry out this project. His ceaseless leniency, scholarly guidance, continual inspiration, constant and diligent supervision, constructive criticism, valuable advice have made it possible to complete this project.

I would like to express my heartiest thanks to Mr. Khalid Been Badruzzaman Biplob, Lecturer (Senior Scale), for his kind help to finish my project and also to other faculty members and the staff of the SWE department of Daffodil International University.

Finally, I would like to thank my parents for keeping me in their prayers and supporting me to be better every step of the way. Without their love and support, I would not be successful.

Dedication

I commit this venture to my respectable Father and Mother, my supervisor, my Honorable teachers who are continuously expensive and close to me. Without their patience, understanding, unsparing bolster, care, love and cherish it was not conceivable to come up to this put.

Abstract

Although the approved COVID-19 vaccine has been shown to be safe and effective, mass vaccination in Bangladeshi people remains a challenge. As a vaccination effort, the study provided an empirical evidence on willingness to vaccinate by sociodemographic, clinical and regional differences in Bangladeshi adults. Vaccines are being developed and rolled out at record speed in response to the COVID-19 pandemic. COVAX, a facility co-led by Gavi, the Coalition for Epidemic Preparedness Innovations (CEPI) and WHO, aims to accelerate the development and production of COVID-19 vaccines, and to guarantee fair and equitable access for every country in the world.

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Chapter 1

Introduction

Just a year after the virus was first detected in a Chinese city, the COVID-19 pandemic is an ongoing global threat that has infected over 100 million individuals and caused more than 2 million deaths [1]. To mitigate the effect of COVID-19 by preventing or reducing the transmission, scientific communities around the world are putting their best efforts to develop vaccines against the virus. Looking beyond phase 3 COVID-19 vaccine trials, the findings showed demonstrated effectiveness and thus a few vaccines have been approved by at least one national regulatory body across countries for mass deployment [2]. These are RNA vaccines (from Pfizer-BioNTech and Moderna), conventional inactivated vaccines (from Sinopharm, Bharat Biotech, and Sinovac), and viral vector vaccines (from Gamaleya Research Institute and Oxford-AstraZeneca), which are being used in recent vaccination programs of many countries, including the United States, the United Kingdom, Europe, China, Russia, and India [2].

These are Android based DIU Covid-19 vaccine application. The study offers a valuable baseline of confidence levels to assess willingness to vaccinate in the context of the COVID-19 pandemic and to help identify where further trust building is required to maximize adoption of new life-saving vaccines.

1.1 Project Overview:

Android based DIU Covid-19 vaccine application. COVID-19 Vaccine finder for specific department student. If a student is deprived of the Covid-19 vaccine, he or she can be easily detected. Time will be saved and work will be done faster. Android based DIU Covid-19 vaccine application. COVID-19 Vaccine finder for specific department student. If a student is deprived of the Covid-19 vaccine, he or she can be easily detected. Time will be saved and work will be done faster.

1.2 Project Purpose:

As COVID-19 vaccines are being introduced, national public health authorities will experience intense demand for data by national and subnational governments, the public, civil society organizations, media, and regional and global immunization partners. This document provides guidance about: minimum and optional data to collect as vaccines are being rolled out and delivered; key performance indicators and the anticipated use of these – to measure the performance of key components of the immunization system and to take corrective action when needed; and the use of information systems to collect, store, analyses and disseminate any relevant information.

1.3 Motivation:

Inspiration is exceptionally pivotal to create any decision as well as to bridge any errand adequately. I accomplished driving force from my supervisor to construct my arranging tasks. His forthwith correspondence reality is that it is exceptionally vital for my lifetime. He boosts me each period of the venture.

1.4 Objectives:

monitor equitable uptake and coverage by dose and completed schedule, over time by geography, by population groups, and risk groups; monitor to what extent national policies to prioritize at-risk groups (based on age, nature of their work or preexisting conditions) and at-risk settings are effectively implemented; provide a reliable and trusted personal vaccination record/certificate for any health, occupational, educational and travel purposes (as per national policies); ensure that the necessary records and documentation are in place for use in surveys, safety monitoring, disease surveillance, and vaccine effectiveness studies;

1.5 Expected Outcome:

I expect my project will all over DIU student vaccine from registration .Time will be saved and work will be done faster.

Vaccine safety and effectiveness will be touched upon to the extent that of vaccination

Background:

1.1.1 Technical Perspective:

I have been working on a real-life project using Java and Firebase Real-time Database.

1.1.2 Domain Perspective:

I have tried to do something new like Covid -19 vaccine.

1.1.3 Benefits:

By successful completion of this project, users will be able to-

- COVID 19-vaccines are effective and can reduce the risk of getting and spreading the virus that causes COVID-19.
- COVID-19 vaccines also help children and adults from getting seriously ill even if they do get COVID-19

1.1.4 Goals:

The main goals of this project is to-

- Making a User-friendly and easy interface website.
- Decrease the complexity of those existing covid-19 app process using this online system

1.1.5 Stakeholders:

The main stakeholder's are-

- Admin
- Student

1.1.6 Project Schedule:

CHAPTER 2

BACKGROUND STUDY

2.1 Background of Project:

DIU Covid -19 vaccine app to vaccinate university students. Since the vaccination minimum age was reduced to , but many did not have to register at the main government vaccine another was launched to allow university students to register for the vaccine. They had to register through their university to be vaccinated.

2.2 Related Work:

As this project is the way of medicines so we have a quest on the websites that are available now on the internet.

The websites are available at present on the internet.

Existing websites:

- ❖ Surokkha app

2.3 Challenges:

The challenge is taken without any abridgment. Endeavor to solve all of leaking's of existing activity and added unique features. Project achievement is the ambition of we will gain it by more filed in the project.

CHAPTER 3

Software Requirement Specification:

All requirement specifications are described in this section on this project.

3.1 Functional Requirements:

FR 01	Login
Description	Admin and Student must have login otherwise you cannot use this system
stakeholder	Admin, Student
FR 02	Department Add
Description	Only Admin Can Added any department
stakeholder	Admin
FR 03	Department Update
Description	Only Admin Can Update any department
stakeholder	Admin
FR 04	Department Delete
Description	Only Admin Can Delete any department
stakeholder	Admin
FR 05	Search Student
Description	Student can search his own profile
stakeholder	Student
FR 06	Manage Student
Description	Admin Can easily manage student information
Stakeholder	Admin
FR 07	Show vaccine one or two dose complete

Description	Admin and student easily can showing dose
stakeholder	Admin, Student
FR 08	Vaccine Incomplt
Description	Which student are Incomplt vaccine Then Admin can easily show that the information
stakeholder	Admin
FR 09	Vaccine report generate
Description	Student are successfully compete two dose vaccine admin can report this student
stakeholder	Admin
FR 10	Vaccine view Details
Description	Student can easily showing vaccine view details
stakeholder	Student
FR 11	Show Department
Description	Students easily show department
stakeholder	Student
FR 12	Show Vaccine Information
Description	Students view vaccine information
stakeholder	Student
FR 13	Show vaccine Incomplete Student
Description	Admin can view incomplete student
stakeholder	Admin

3.2 Data Requirements:

3.3 Performance Requirements:

3.3.1 Speed and Latency Requirements:

PR 01	Page Refresh Rate
-------	-------------------

Description	While the admin and student using this system the app will show within a moment.
stakeholder	Admin student
PR 01	Page Refresh Rate

3.3.2 Accuracy Requirements:

There are nothing specific accuracy requirements

3.3.3 Capacity Requirements:

The system is able to manage all the information Admin and student Applications.

PR 02	At first, the system will contain all the registered.
Description	The information of registered admin, and Student will be stored in database
stakeholder	Admin student
PR 03	The system will contain all the Applicant information.
Description	The Applicant information will be stored in database.
stakeholder	Admin

3.4 Dependability Requirements:

3.4.1 Reliability Requirements:

This is Covid -19 vaccine app project that's why it will be very sensitive for admin, Student. The main goal of our project, I will be able to achieve the reliability of users.

3.4.2 Availability Requirements:

Availability is more necessary for this project.

DR-01	Must be available the system at 24x7
Description	Must be available the system at 24 hours a day. Must be updated in the system regularly.
stakeholder	Admin Student

3.4.3 Robustness and Fault Tolerance Requirements:

DR-02	The system manages over access
-------	--------------------------------

Description	Sometimes multiple users can over access this system. The system can handle multiple user access. The system has almost ensured 0% crush.
stakeholder	N/A

3.4.4 Safety Critical Requirements:

There are no specific safety-critical requirements.

3.5 Maintainability and Supportability:

3.5.1 Maintenance Requirements:

MS-01	The system can support browsing this site at any time.
Description	Admin can access the site and add and sell medicine or update and delete any time. Manager can manage the medicine details and stock validation process through this system
stakeholder	Admin Student

3.5.2 Supportability Requirements:

There are no specific supportability requirements.

3.5.3 Adaptability Requirements:

There are no specific adaptability requirements.

3.6 Security Requirements:

This system has some security requirements. Like-

- ◆ Username/Password
- ◆ Validation
- ◆ Authentication

3.6.1 Access Requirements:

To get access the all modules the system provides validation and authentication processes.

SR-01	This system gives a security policy.
Description	Without login admin, student in this system, he/she will be not able to access the website
stakeholder	Admin Student

3.6.2 Integrity Requirements:

To ensure information all usernames and passwords are put away encrypted form. It's not easy to decrypt the username and password

3.6.3 Privacy Requirements:

This system has some security techniques. Like- Validation and Authentication. All data are stored in database. All usernames and passwords are stored in encrypted form. It's difficult to decrypt. Th component gives clients security.

SR-02	All data will be protected
Description	All data are secured. All information is stored within the database utilizing the encrypted form. It's not simple to decode.
stakeholder	Admin Student

3.7 Usability and Human Integrity Requirements:

3.7.1 Ease of Use Requirements:

This system is exceptionally simple for utilize conjointly understandable

3.7.2 Understand-ability and Politeness Requirements:

This system is very easy for understand and also usable.

3.7.3 Accessibility Requirements:

There are no access requirements besides those that have been outlined in below:

AR-1: Log in as an Admin

AR-2: Log in as a Student

CHAPTER 4

Scope of the Study

4.1 use Case Diagram:

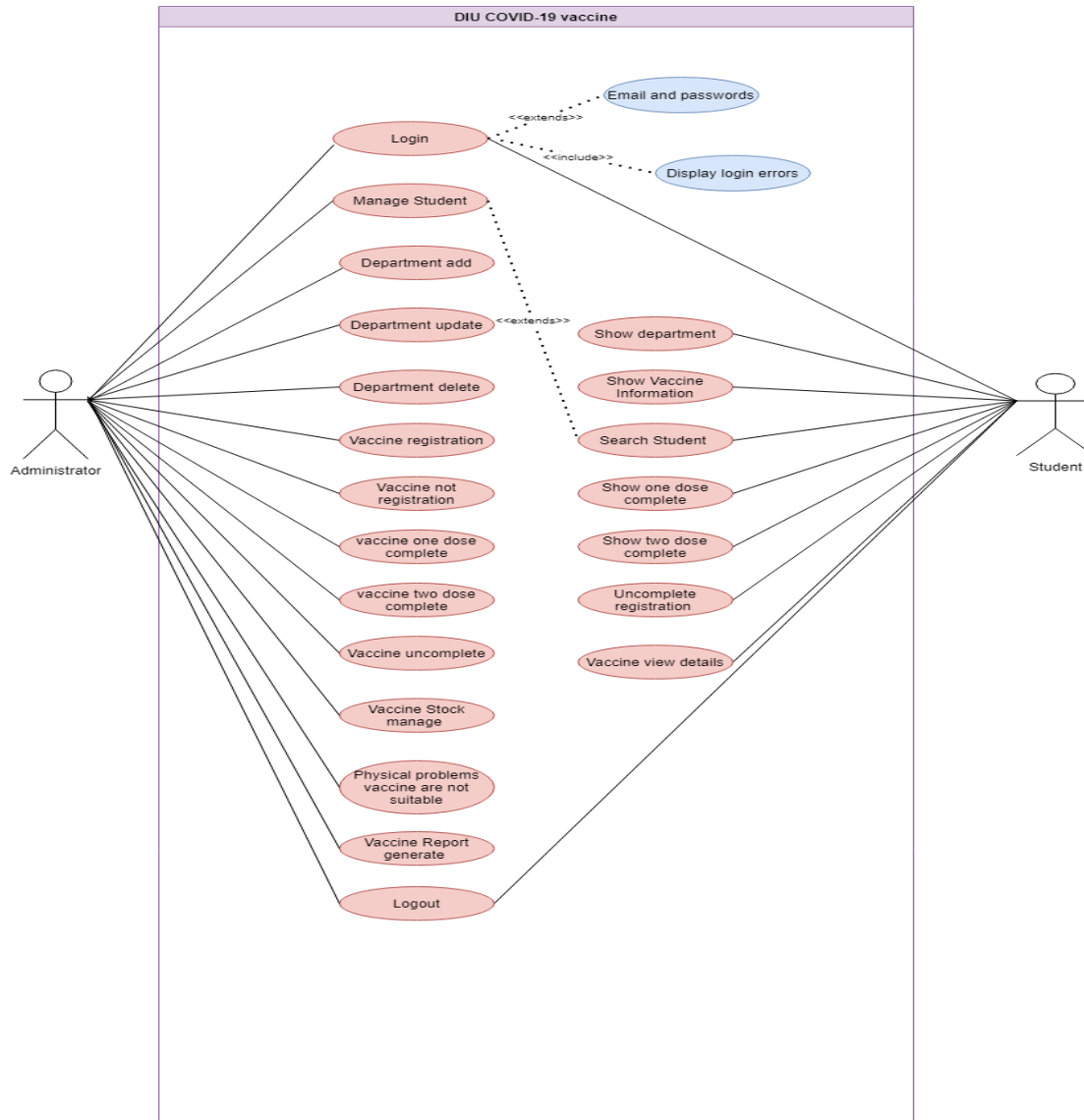


Figure 4.1: Use Case for DIU Covid-19 vaccine app

Use Case-01	Login
-------------	-------

Goal	Student login is important for accessing the site. Admin login is important for accessing the site for the feature list	
Preconditions	Need to admin username/Student username/and password.	
Success End Condition	Come into the system and access the system all features.	
Failed End Condition	Admin And Student cannot view app .	
Actors	Admin Student	
Trigger	Login to the system.	
Description	Step	Action
	1	Login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push Login Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

Use Case-02	Manage Student
Goal	Admin Can Login this system and easily manage this student
Preconditions	Need to admin username//and Password.

Success End Condition	Come into the system and access the Manage students	
Failed End Condition	Admin cannot manage student	
Actors	Admin	
Trigger	Login to the system.	
Description	Step	Action
	1	Login to the system.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push Manage Student Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

Use Case-03	Department Add
Goal	Admin Can successfully login then Adding Department Name
Preconditions	Need Admin Login username and password
Success End Condition	Come into the system and add Department
Failed End Condition	Admin cannot Add Department.
Actors	Admin

Trigger	Login to the system.	
Description	Step	Action
	1	Login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push Add Department Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

Use Case-04	Department update	
Goal	Admin Can successfully login then Update Department	
Preconditions	Need to admin username/Student username/and Password.	
Success End Condition	Come into the system and update the department	
Failed End Condition	Admin cannot Update the department.	
Actors	Admin	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push Update Department

		Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

Use Case-04	Department Delete	
Goal	Admin Can successfully login then Delete Department	
Preconditions	Need to admin username/Student username/and Password.	
Success End Condition	Come into the system and Delete the department	
Failed End Condition	Admin cannot Delete the department.	
Actors	Admin	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push Delete Department Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

Use Case-05	Vaccine Registration	
Goal	Admin Can successfully login then vaccine reg	
Preconditions	Need to admin username/and Password.	
Success End Condition	Come into the system and vaccine reg	
Failed End Condition	Admin cannot vaccine reg	
Actors	Admin	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Successfully Vaccine registration
Alternative Flows	3	Push Vaccine reg Button
	N/A	
Quality Requirements	Don't provide the username and password to Others.	

Use Case-06	Vaccine report Generate	
Goal	Admin Can successfully login then successfully vaccine report generate	
Preconditions	Need to admin username/Student username/and Password.	
Success End Condition	Come into the system and generate the vaccine report	
Failed End Condition	Admin cannot Generate the vaccine report	
Actors	Admin	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Successfully Vaccine report Generate
	3	Push report Generate Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

Use Case-07	Show Department	
Goal	Student Can successfully login then showing his Department	
Preconditions	Need to Student username/and Password.	
Success End Condition	Come into the system and showing department	
Failed End Condition	Student cannot Show the department.	
Actors	Students	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push Show Department Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

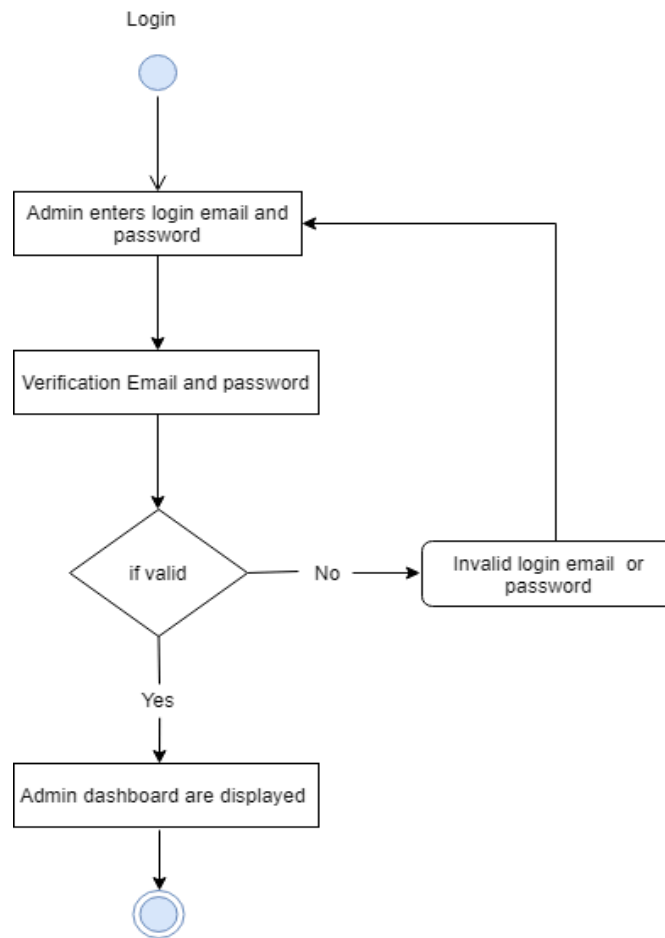
Use Case-08	Show Vaccine Info	
Goal	Student Can successfully login then view Vaccine Info	
Preconditions	Need to /Student username/and Password.	
Success End Condition	Come into the system and view vaccine info	
Failed End Condition	Student cannot view vaccine info	
Actors	Student	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push Show vaccine info Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

Use Case-09	Search Student	
Goal	Student Can successfully login then Search student	
Preconditions	Need to student username/and Password.	
Success End Condition	Come into the system and search the student	
Failed End Condition	Student cannot search the student	
Actors	Student	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push search Student Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

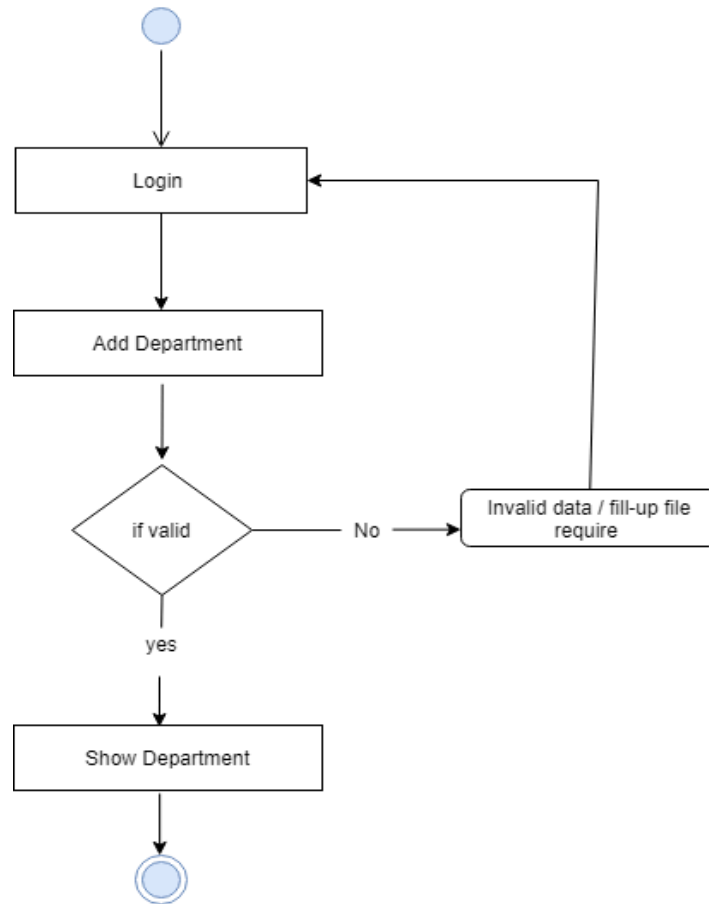
Use Case-10	Department update	
Goal	Admin Can successfully login then Update Department	
Preconditions	Need to admin username/Student username/and Password.	
Success End Condition	Come into the system and update the department	
Failed End Condition	Admin cannot Update the department.	
Actors	Admin	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push Update Department Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

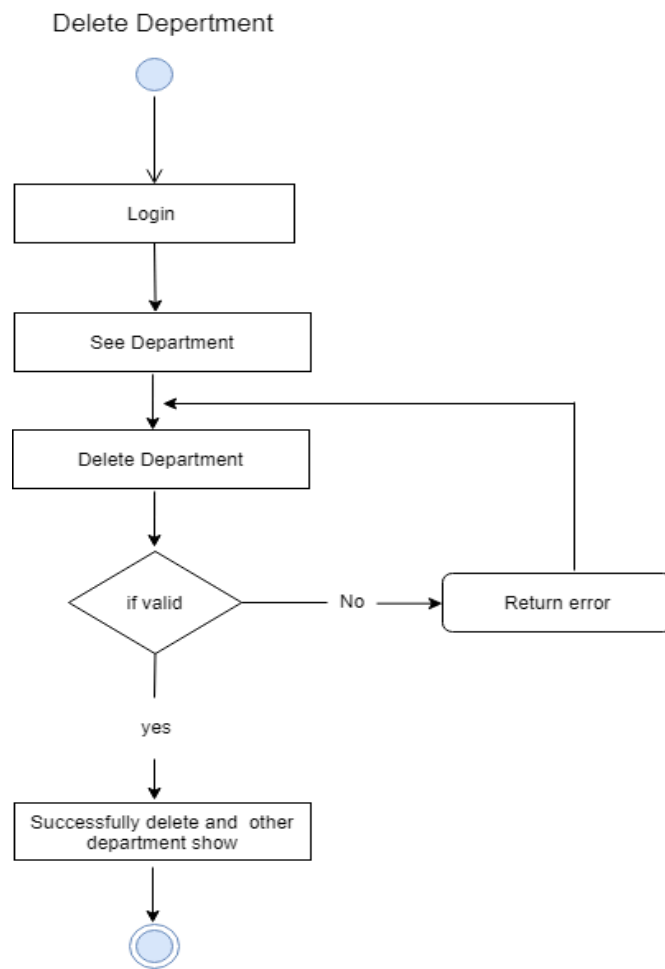
Use Case-11	Vaccine view details	
Goal	Student Can successfully login then view vaccine details	
Preconditions	Need to Student username/and Password.	
Success End Condition	Come into the system and view vaccine details	
Failed End Condition	Student cannot view Vaccine details	
Actors	Student	
Trigger	Login to the system.	
Description	Step	Action
	1	login to the System.
	1.1	Put Username
	1.2	Put Password
	2	Give correct username and password for Login
	3	Push vaccine view Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the username and password to Others.	

4.3 Activity Diagram

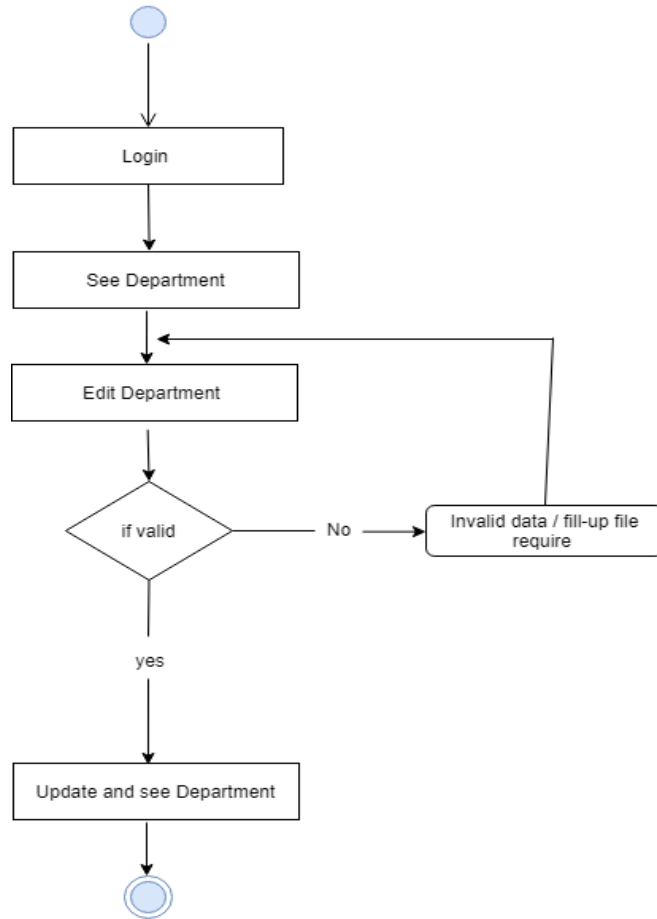


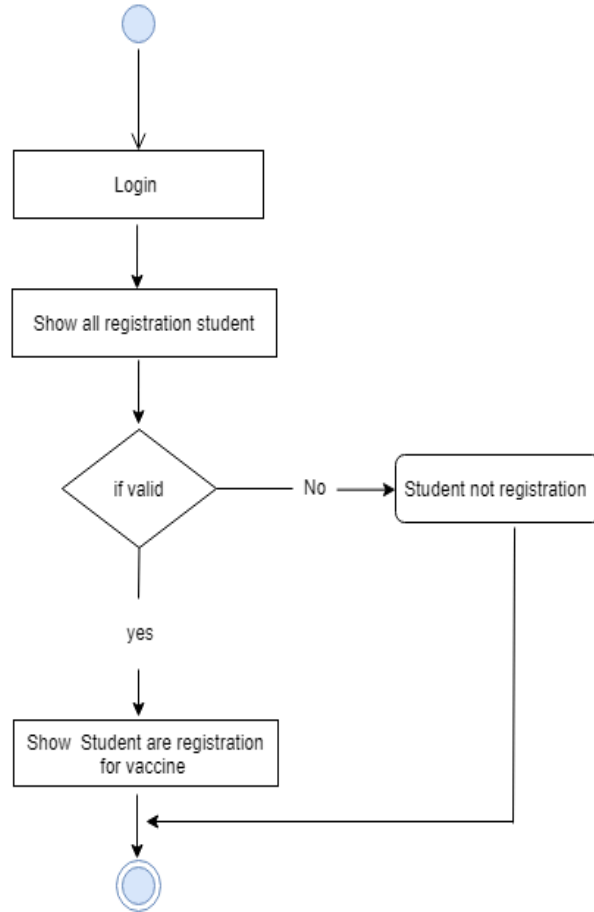
Department Add



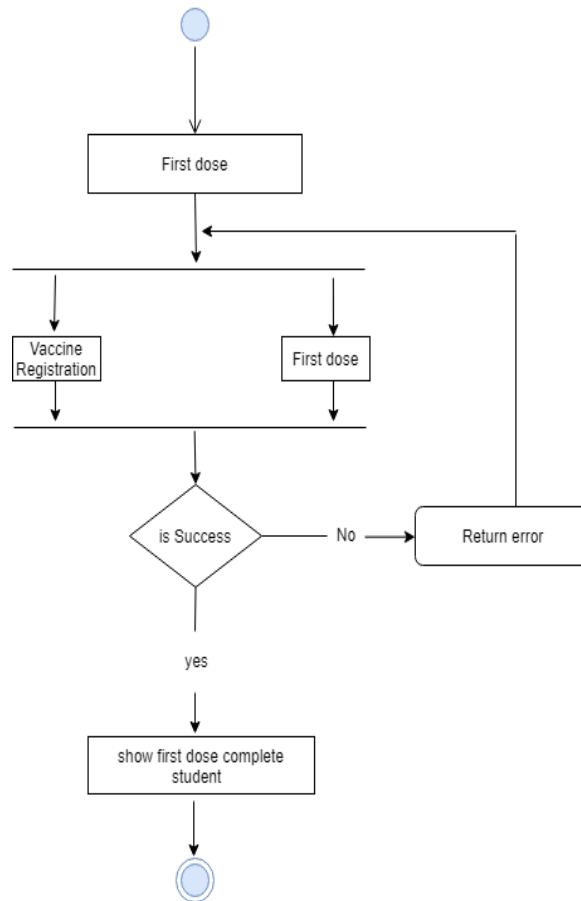


Department Update

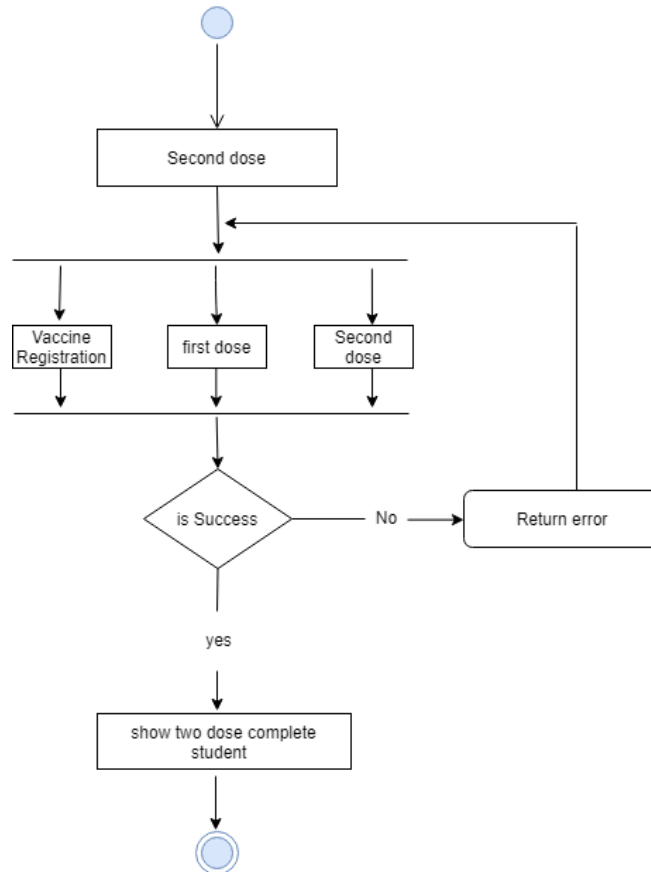




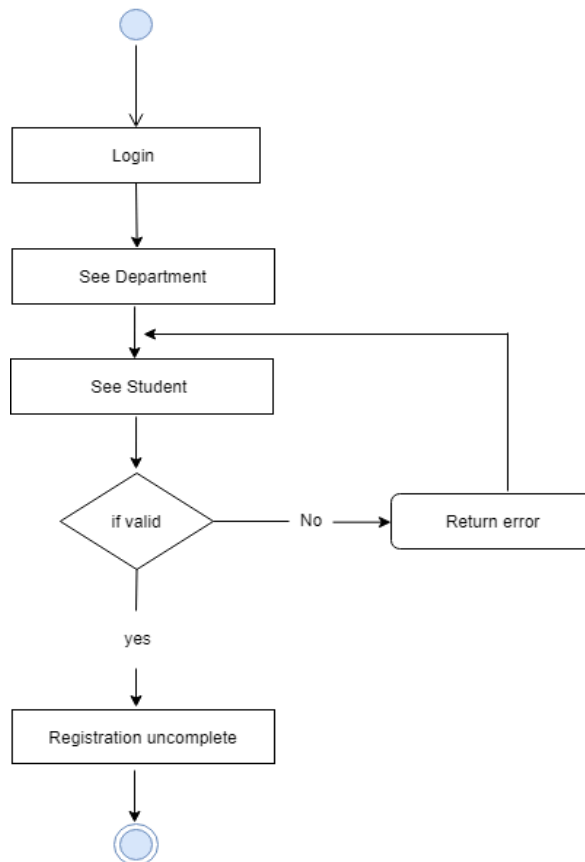
Vaccine First dose Complete



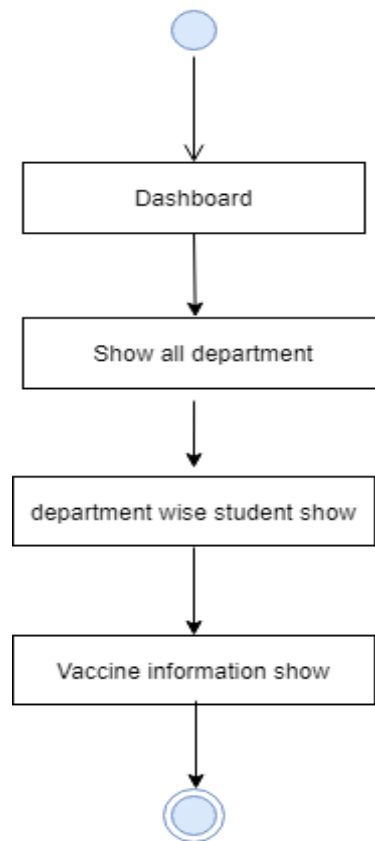
Vaccine Second dose Complete



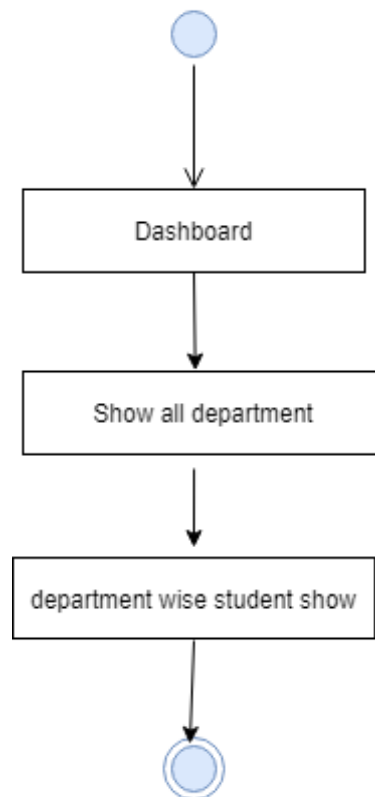
Vaccine Uncomplete



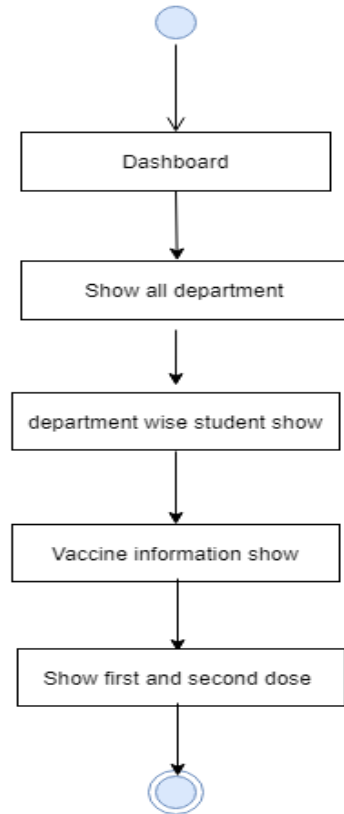
Show Vaccine info



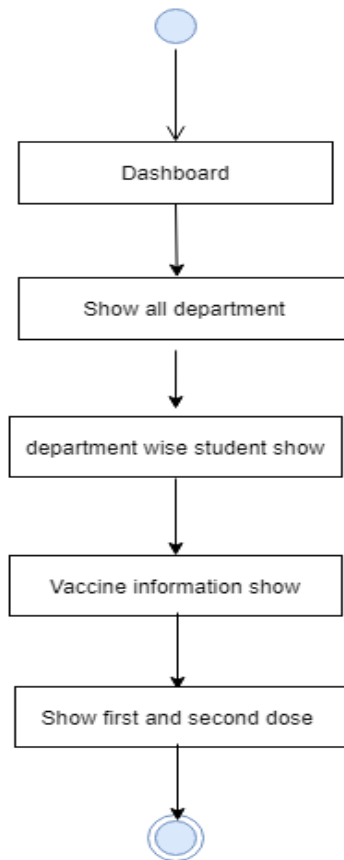
Show Department



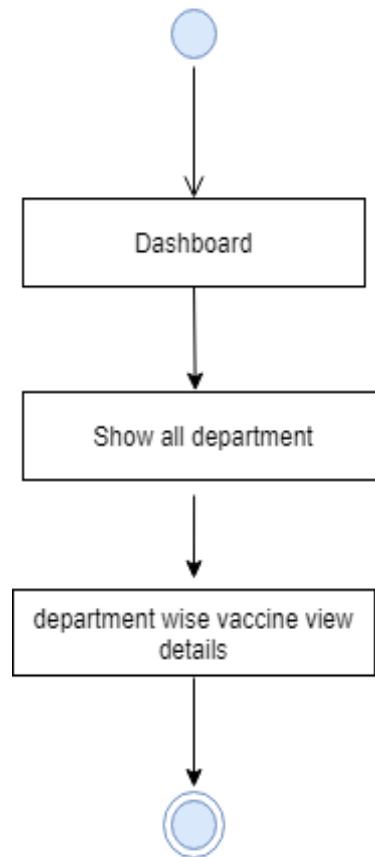
Show vaccine dose complete



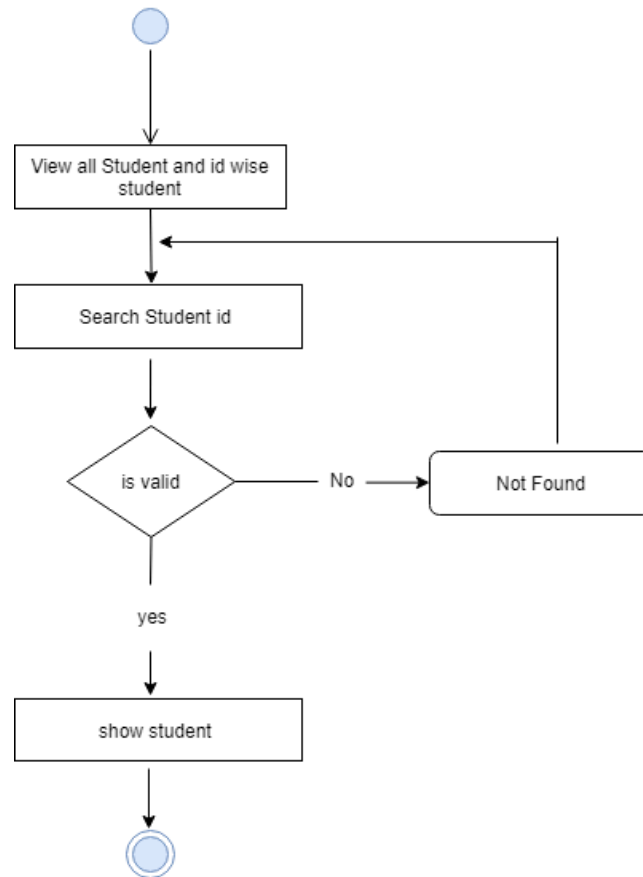
Show vaccine dose complete

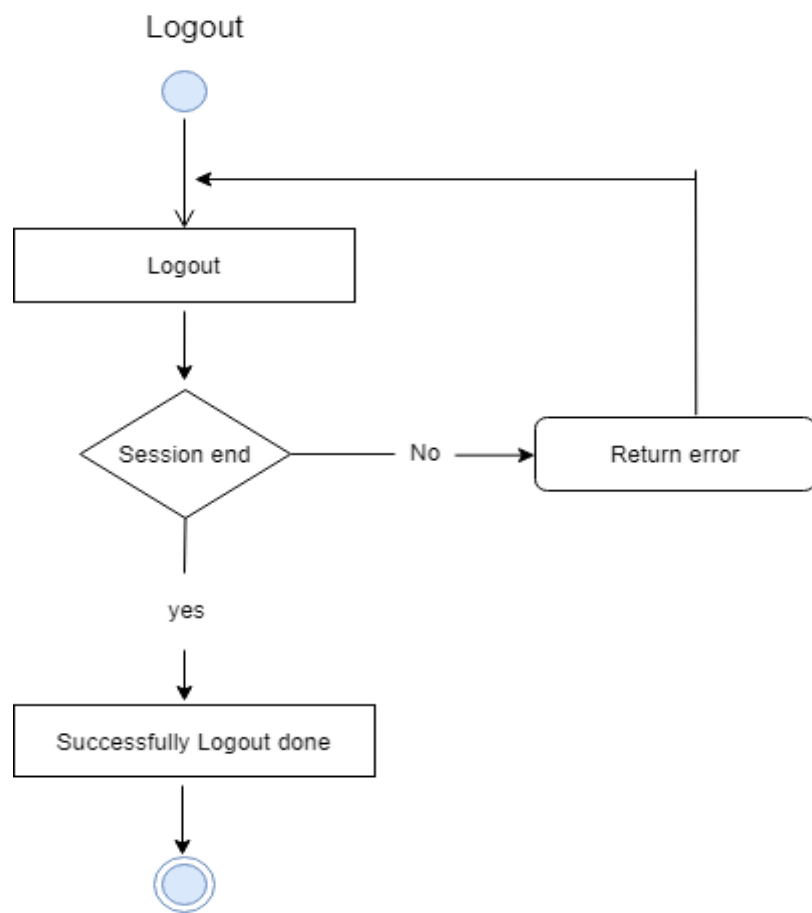


Vaccine view details



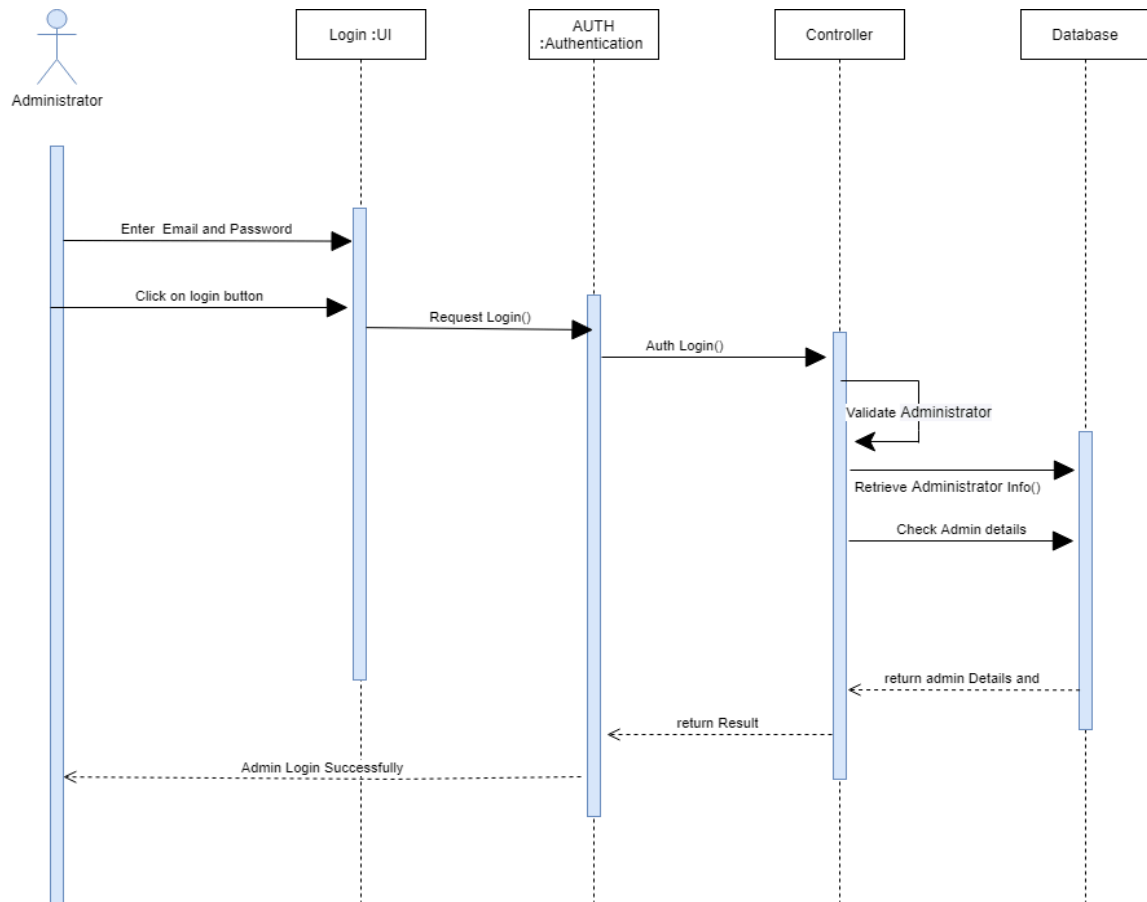
Search by Student

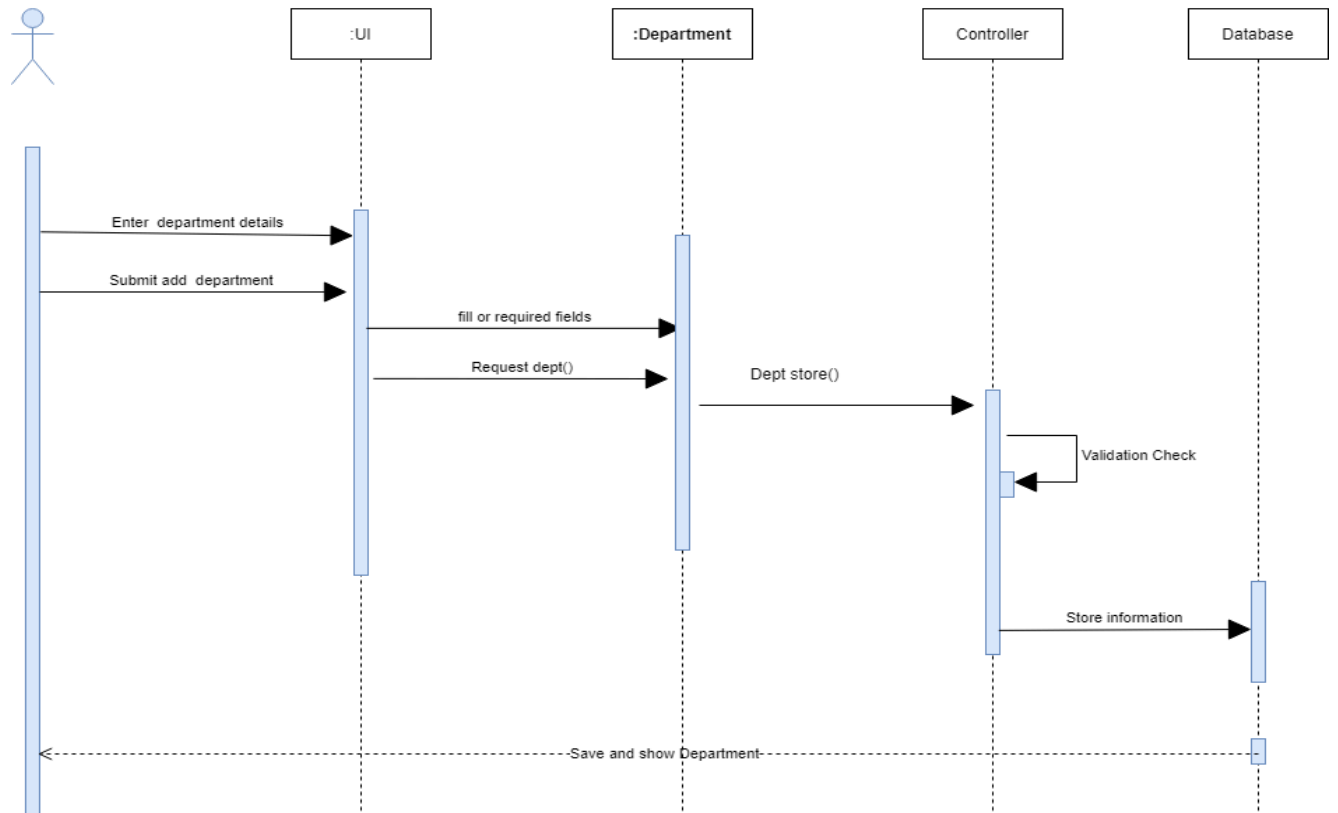




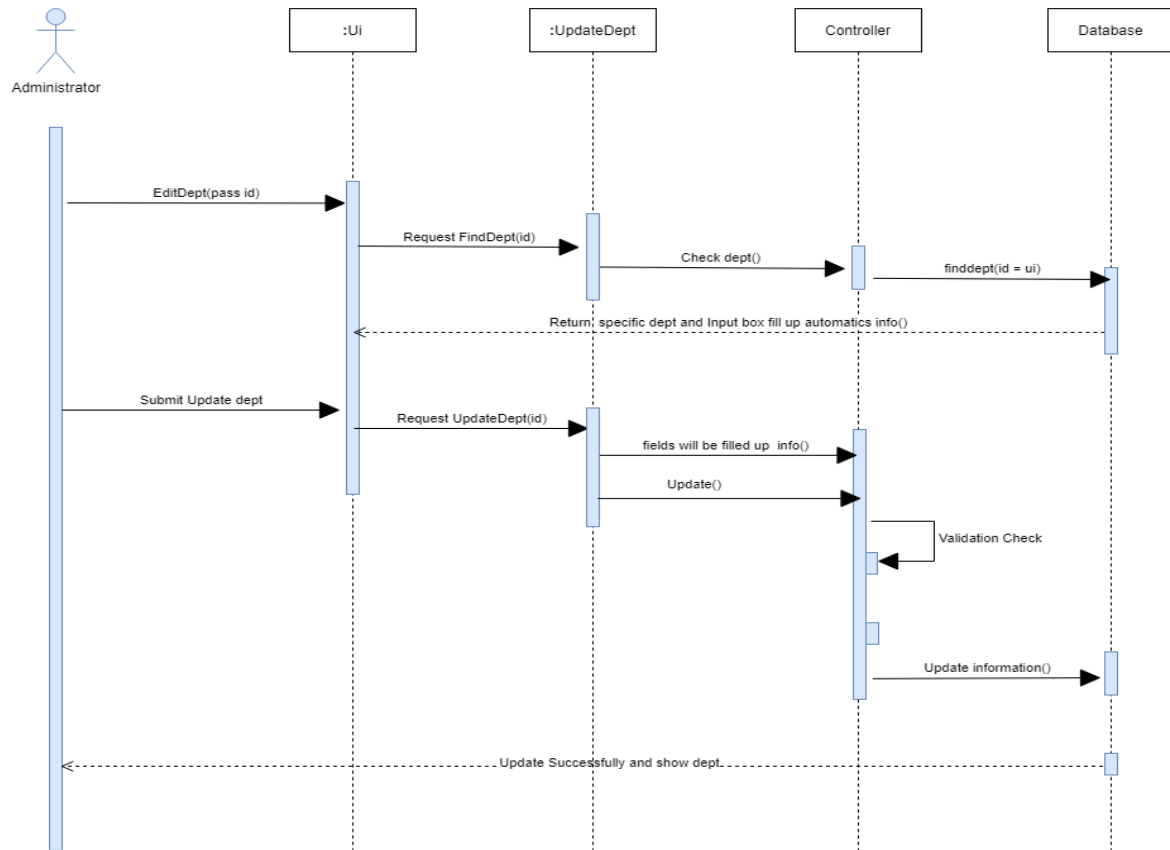
CHAPTER 5

5.1 Sequence Diagram:

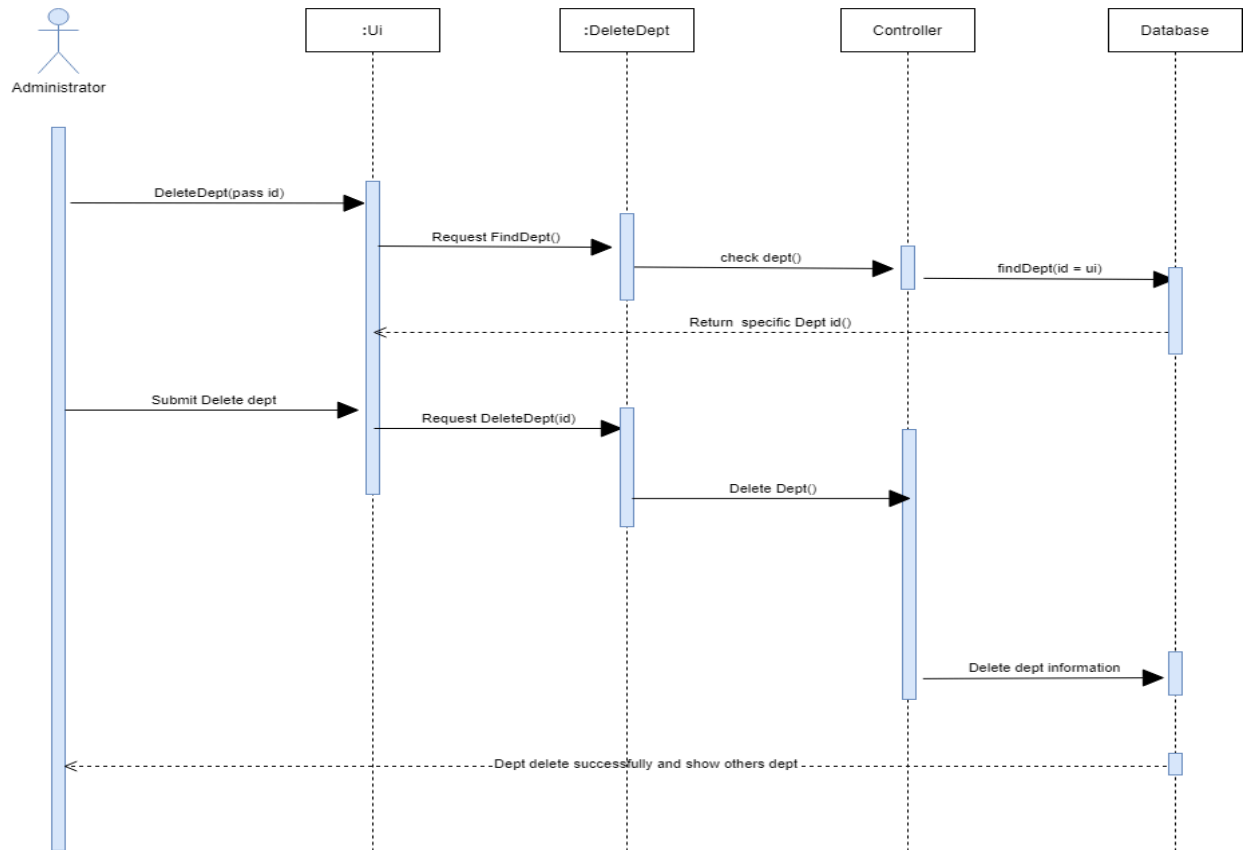




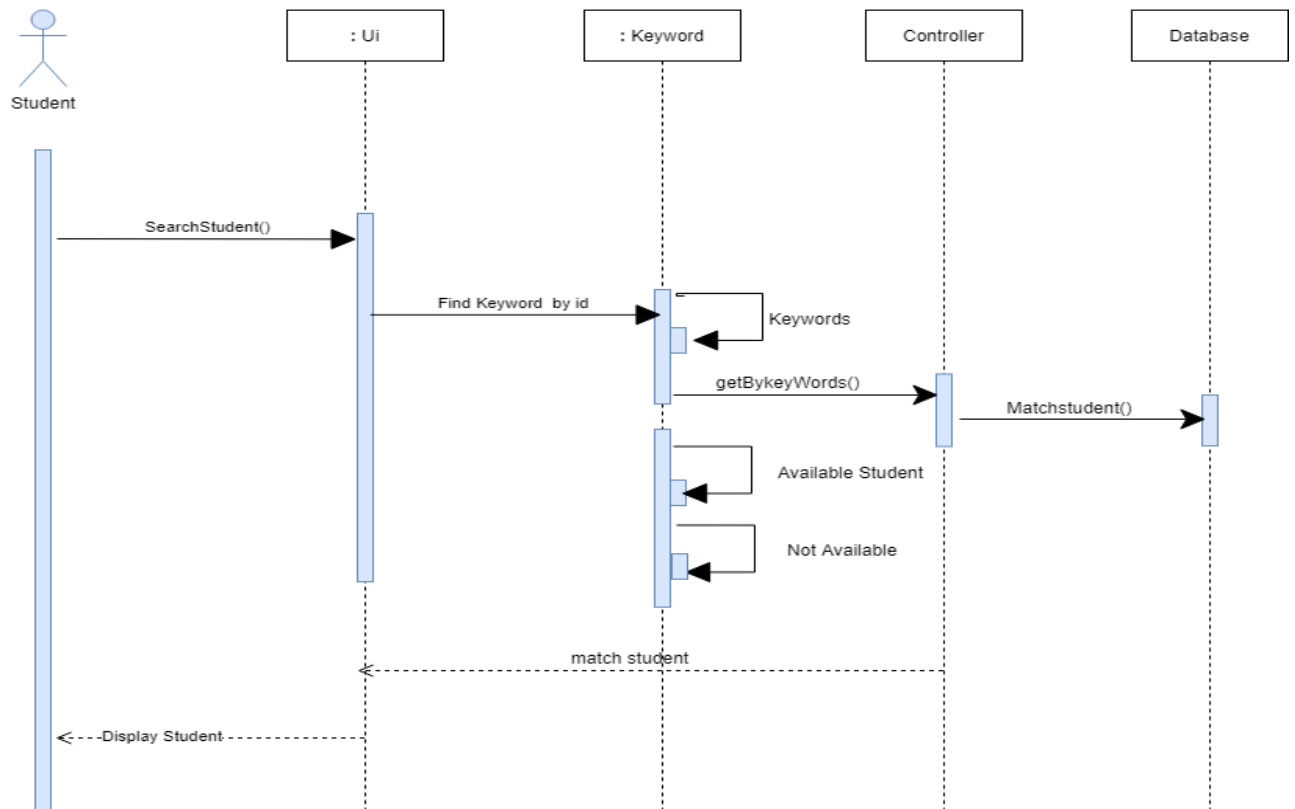
Update Department



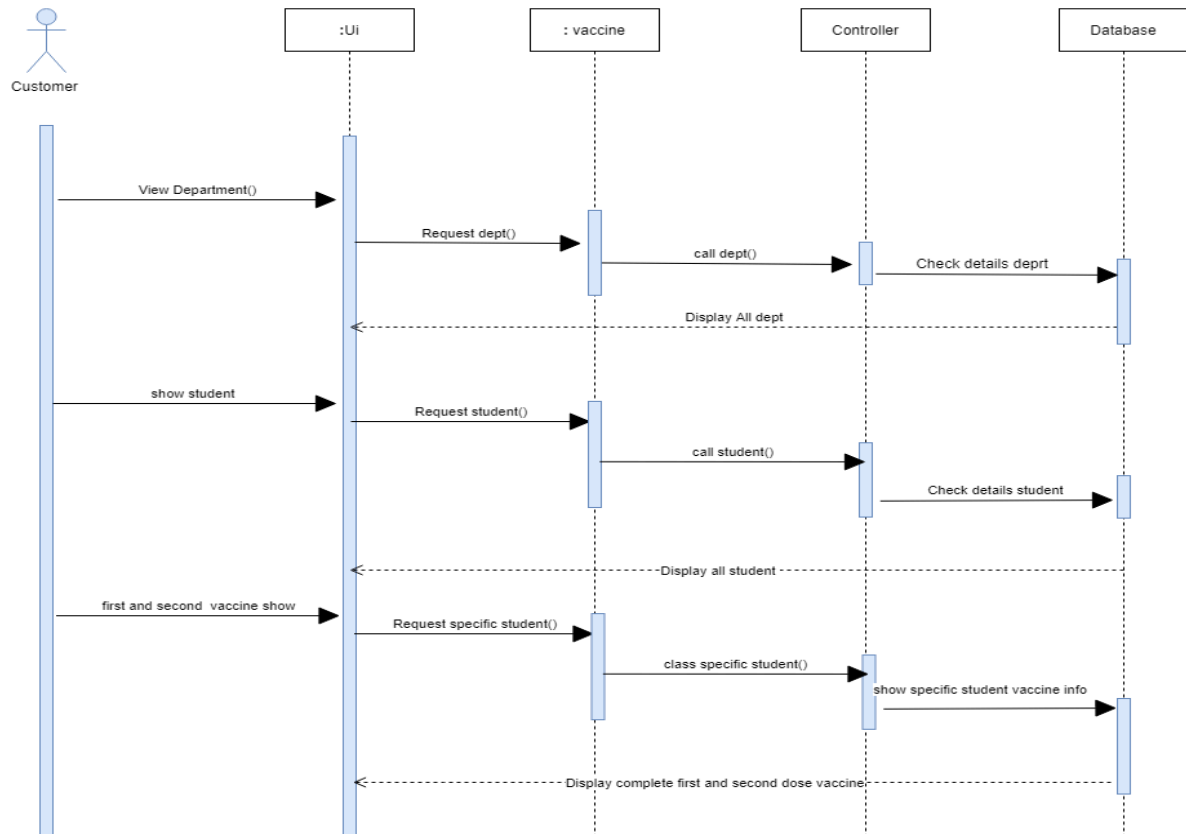
Delete Department



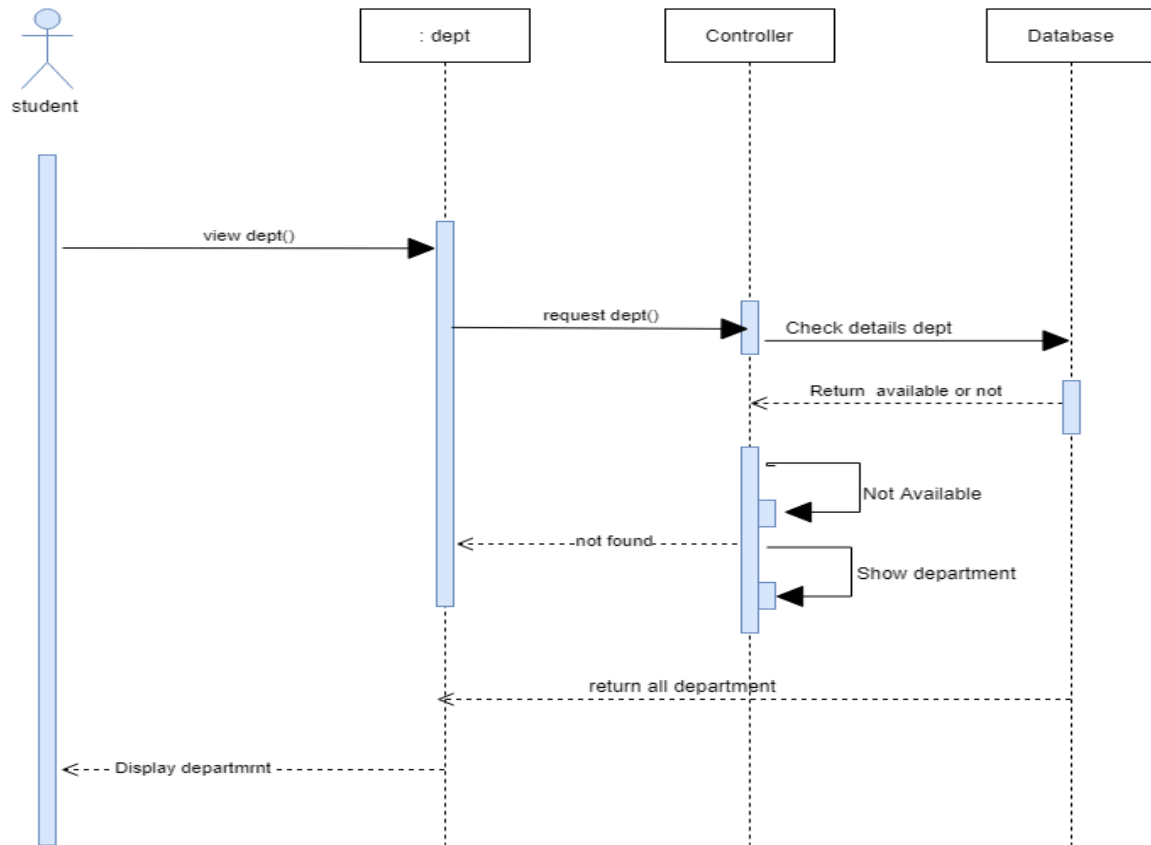
Search keyword student id



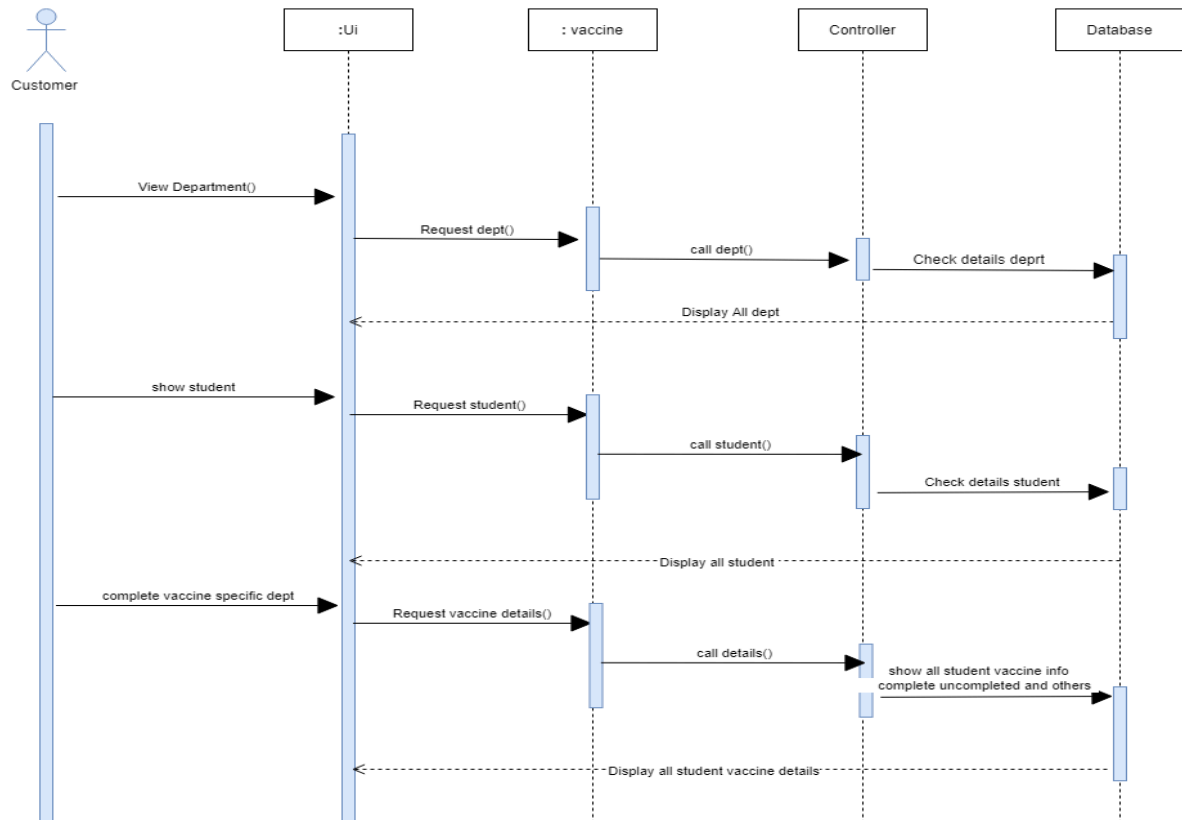
Complete vaccine first and second



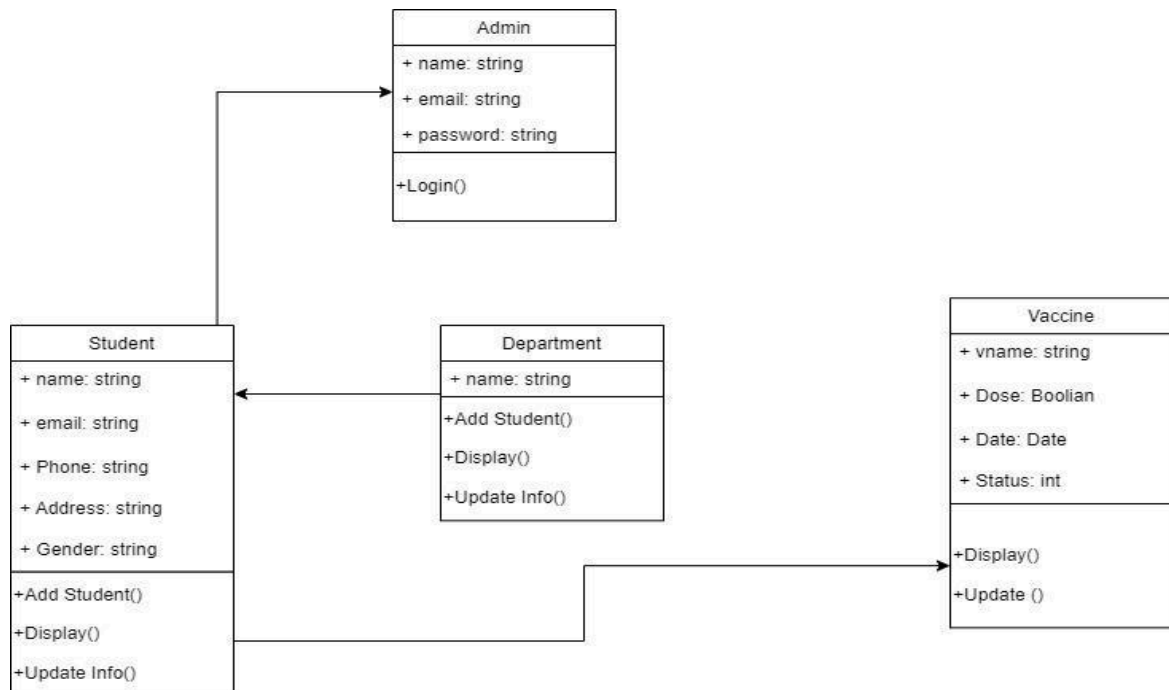
Show Department



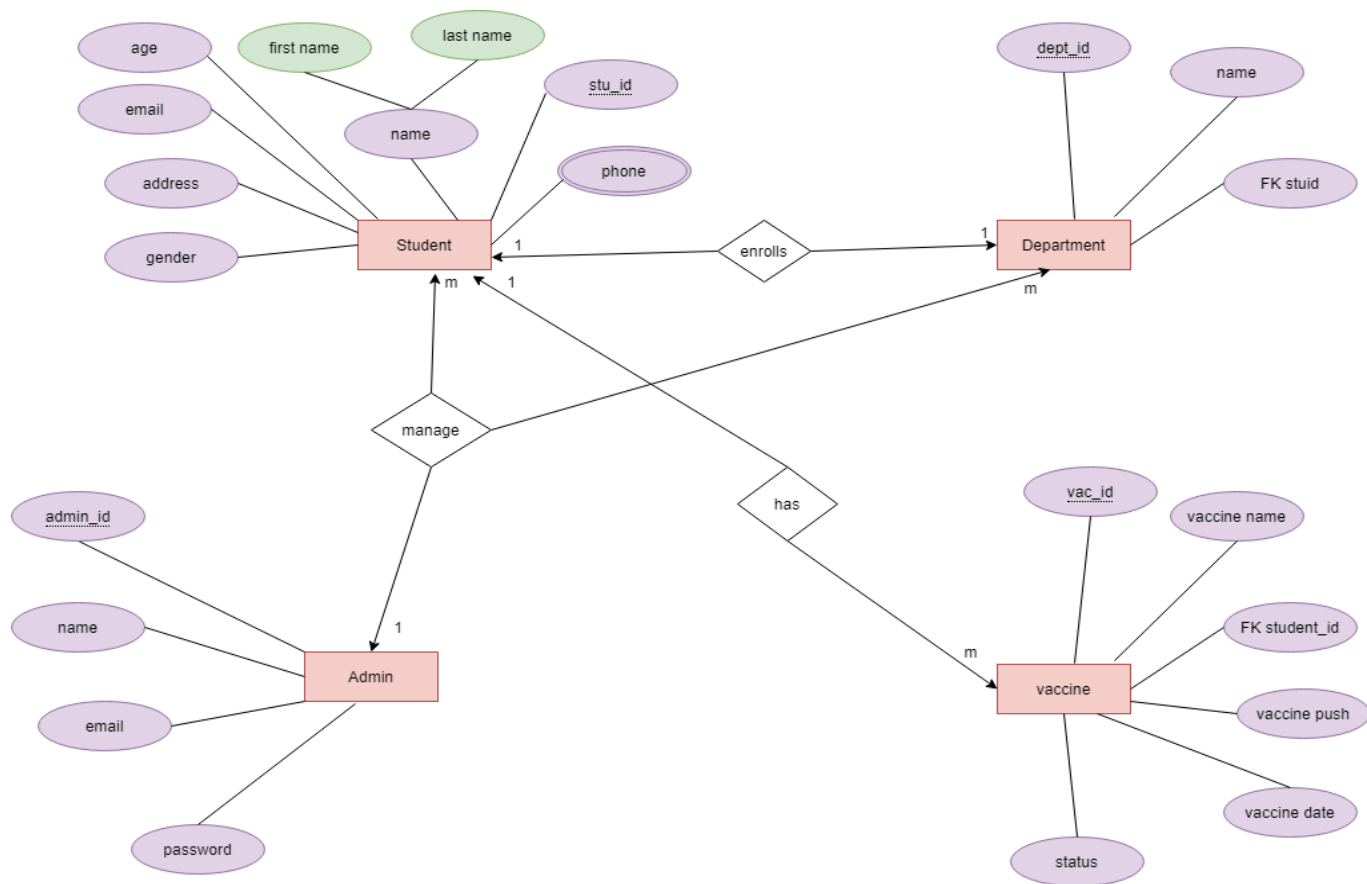
Show Vaccine details



5.2 Class Diagram:



5.3 Entity Relationship Diagram:



5.4 Development Tools & Technology:

5.4.1 User Interface Technology:

5.4.1.1 Front End:

Android UI Design using XML

5.4.2 Implementation Tools & Platforms:

5.4.2.1 Language:

Use Java as Language.

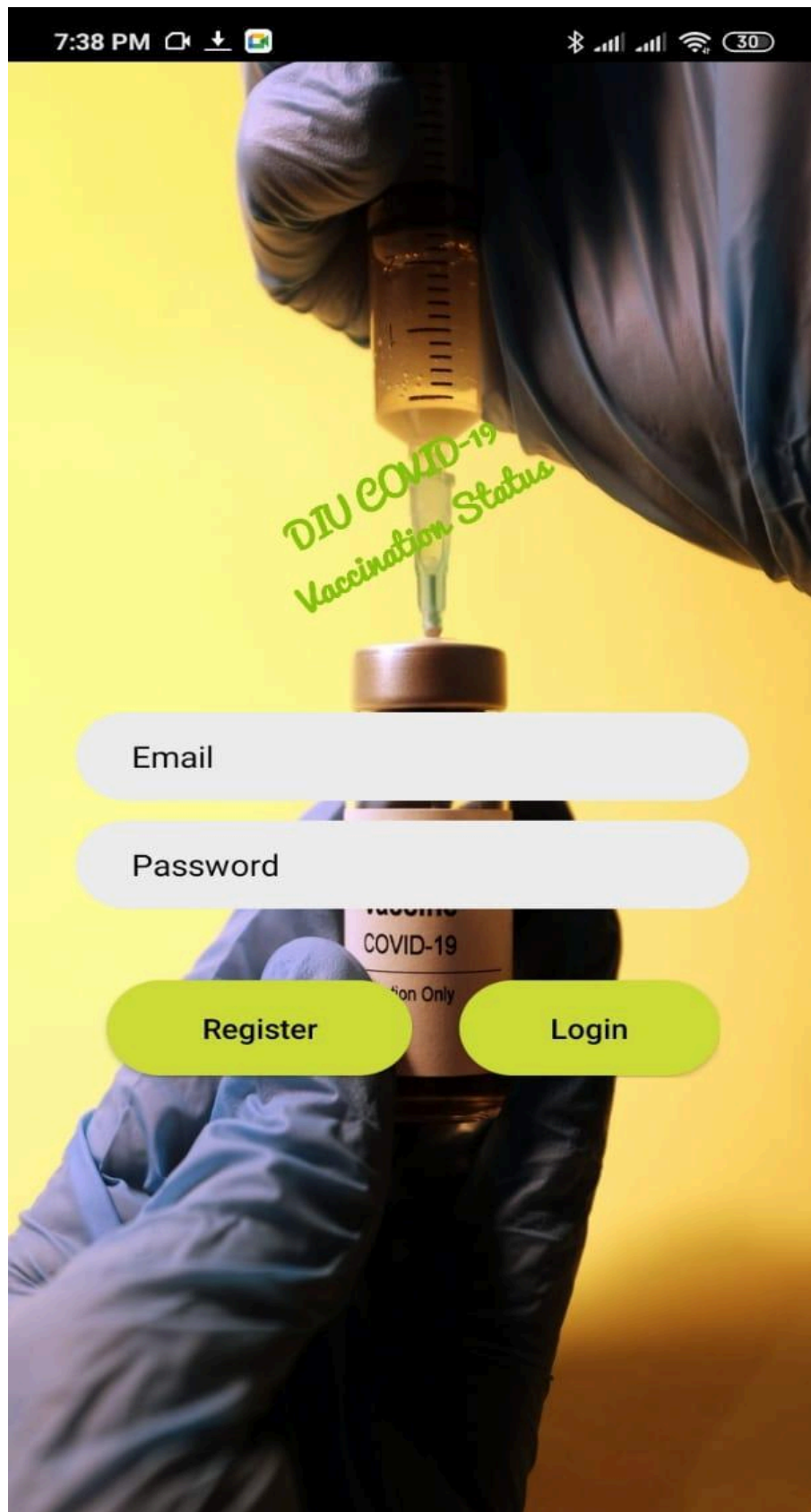
5.4.2.2 MySQL Server:

Firebase Real-time Database

CHAPTER 6

User interface

Home page



DIU COVID-19
Vaccination Status

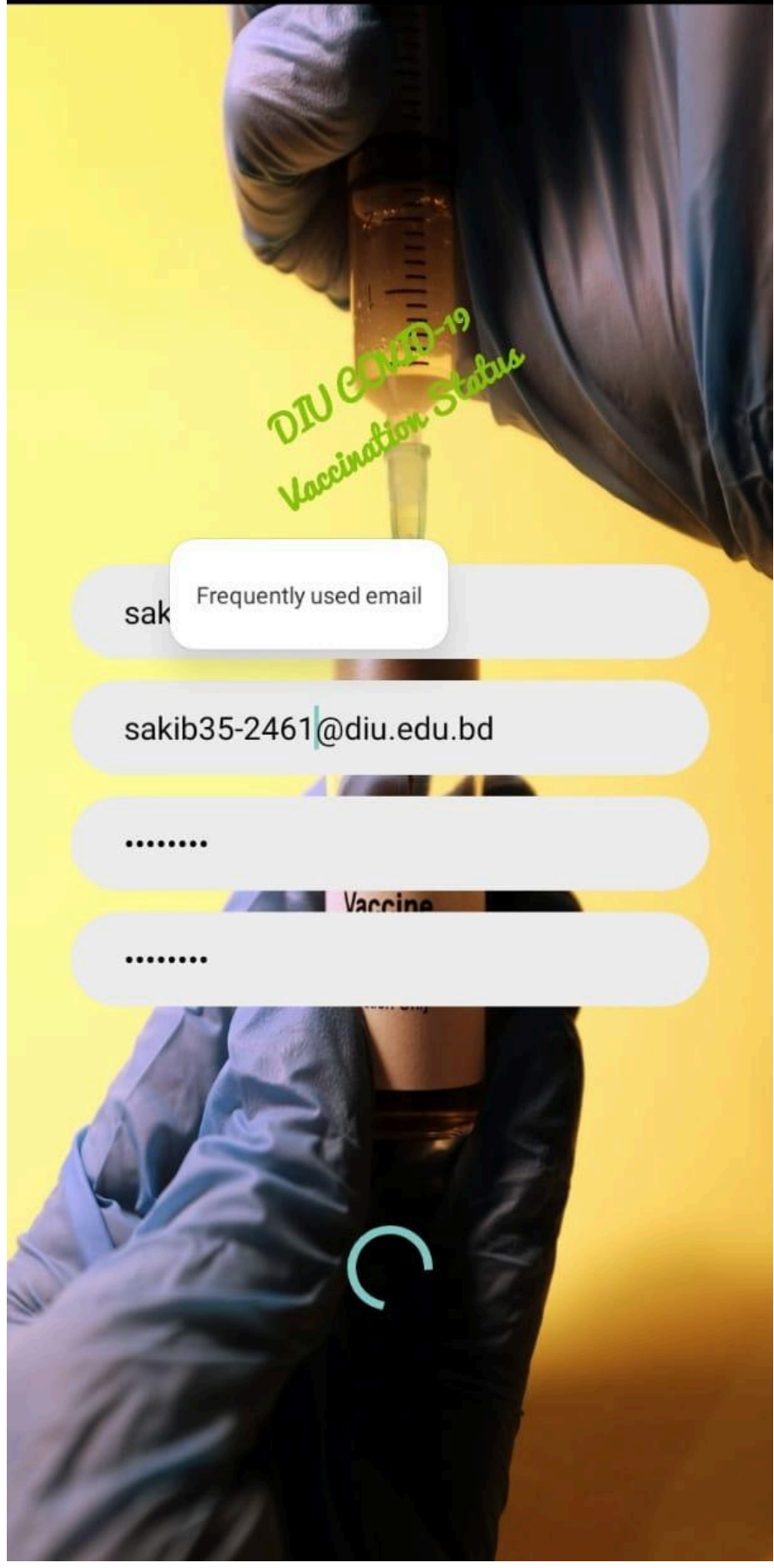
sakib

sakib35-2460@diu.edu.bd

.....

.....

Register



sak

Frequently used email

sakib35-2461@diu.edu.bd

.....

.....



DIU COVID-19
Vaccination Status

sakib

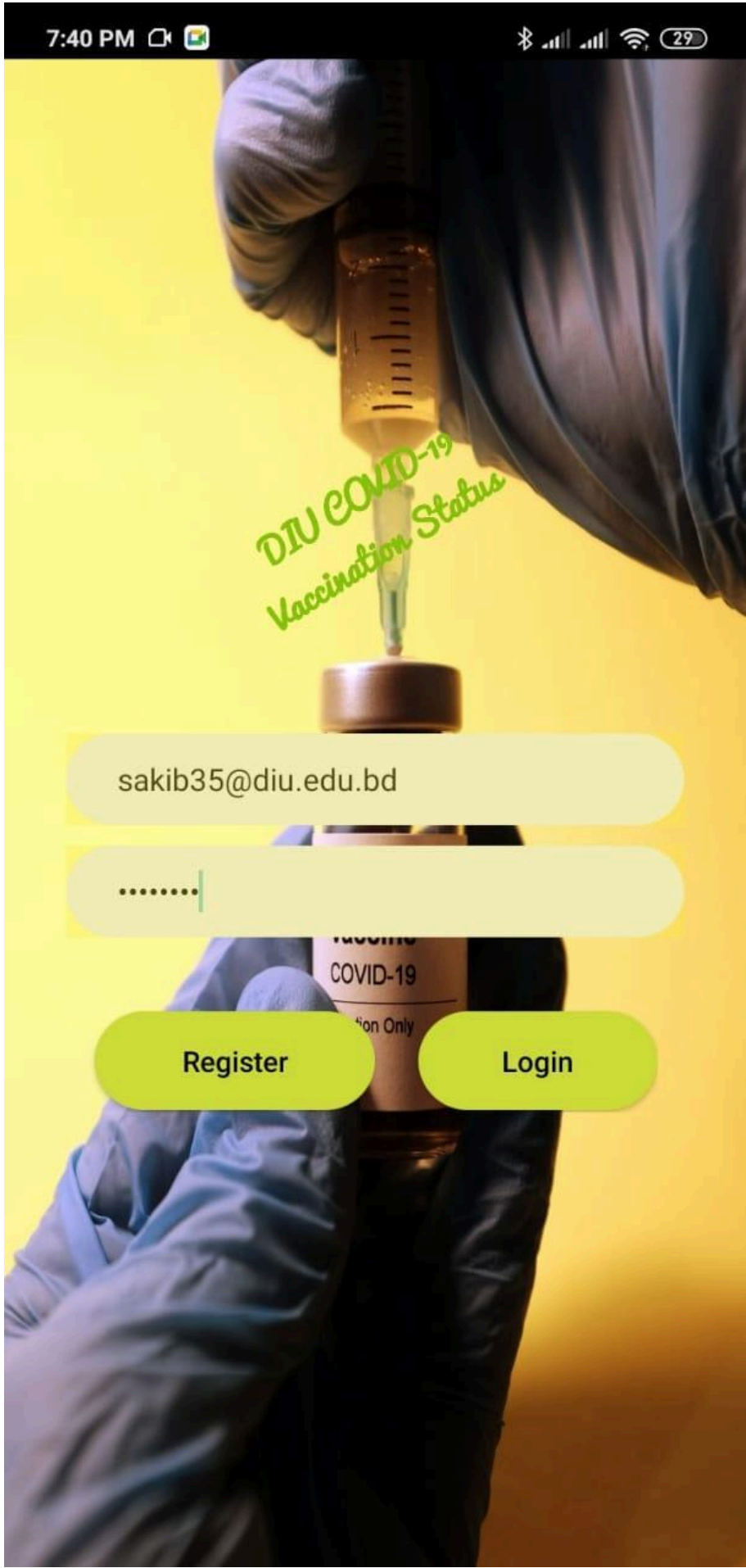
sakib35-2460@diu.edu.bd

.....

.....

Register

Account creation failed
The email address is already in use by another account.



SWE Department

CSE Department

EEE Department

BBA Department

LAW Department

ENG Department

Total Students:

50

Total Vaccinated:

33

Only First Dose:

24

Fully Vaccinated:

9

Not Vaccinated:

7

[View Details](#)

181-35-2461

181-35-2461



181-35-2460

181-35-2460





Name: Sakib Aman

Student ID: 181-35-2460

Department: SWE

- ☒ First Dose Vaccine
- ☒ Second Dose Vaccine

Total Students:

60

Total Vaccinated:

39

Only First Dose:

19

Fully Vaccinated:

20

Not Vaccinated:

21

[View Details](#)

Search Student ID..

181-24-6710



181-24-6711



181-24-6712



181-24-6713



181-24-6714



181-24-6715



181-24-6716



181-24-6717



181-24-6718



181-24-6710



Search Student ID..

181-24-6717



181-24-6718



181-24-6719



181-24-6720



181-24-6721



181-24-6722



181-24-6723



181-24-6724



181-24-6725



181-24-6726





Name: Mehedi Khan

Student ID: 181-24-6721

Department: ENG

- ☒ First Dose Vaccine
- ☒ Second Dose Vaccine



Name: Mahmudul Hasan

Student ID: 191-21-7506

Department: EEE

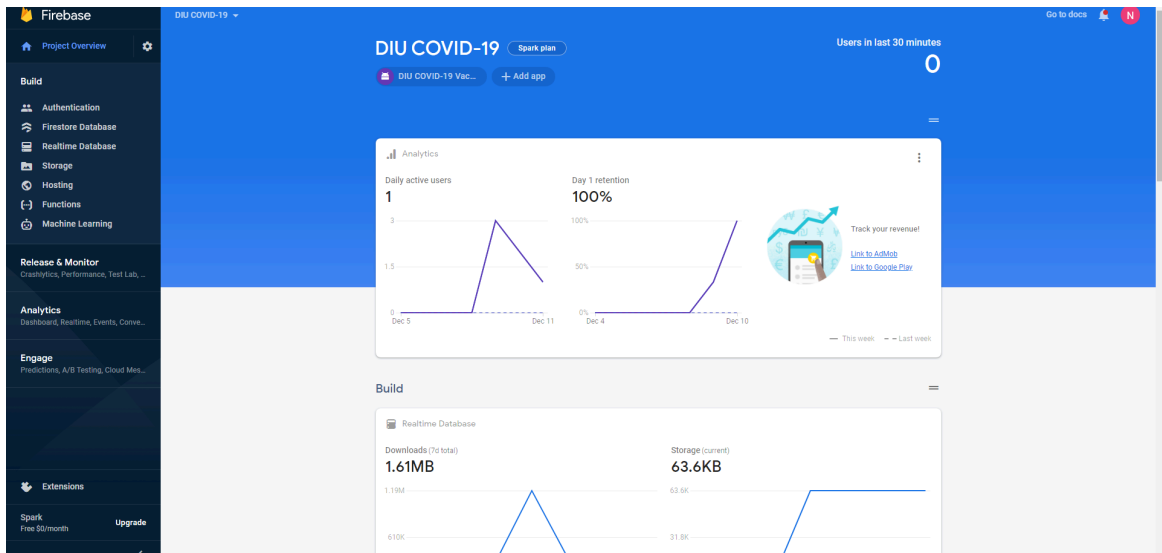
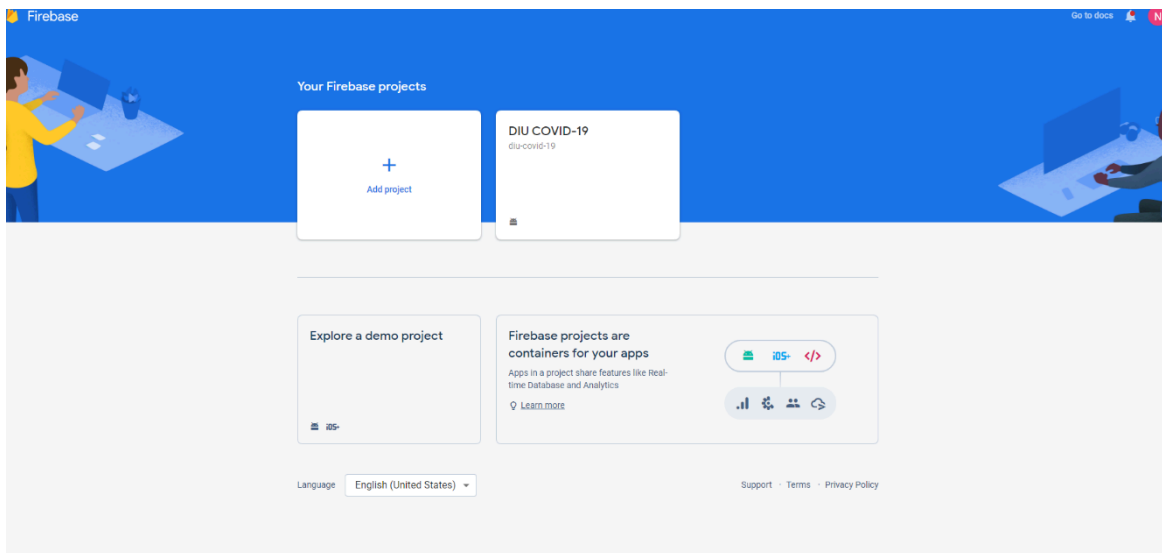


First Dose Vaccine



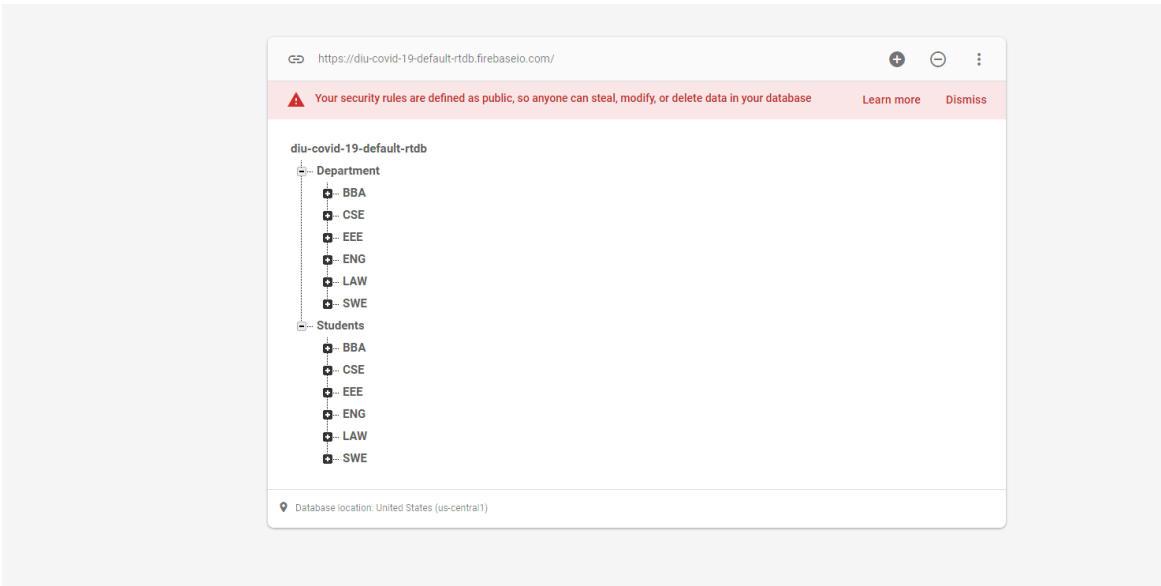
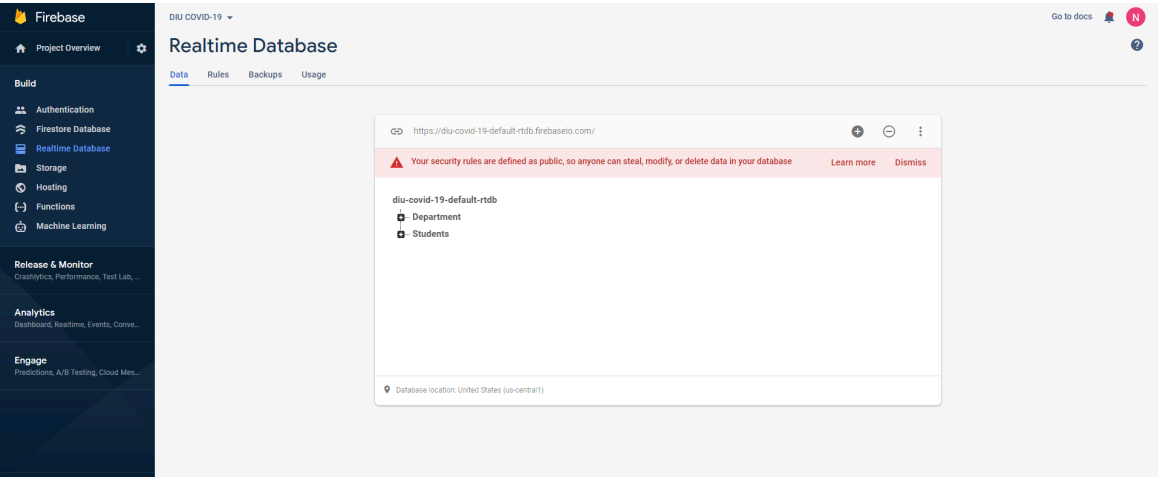
Second Dose Vaccine

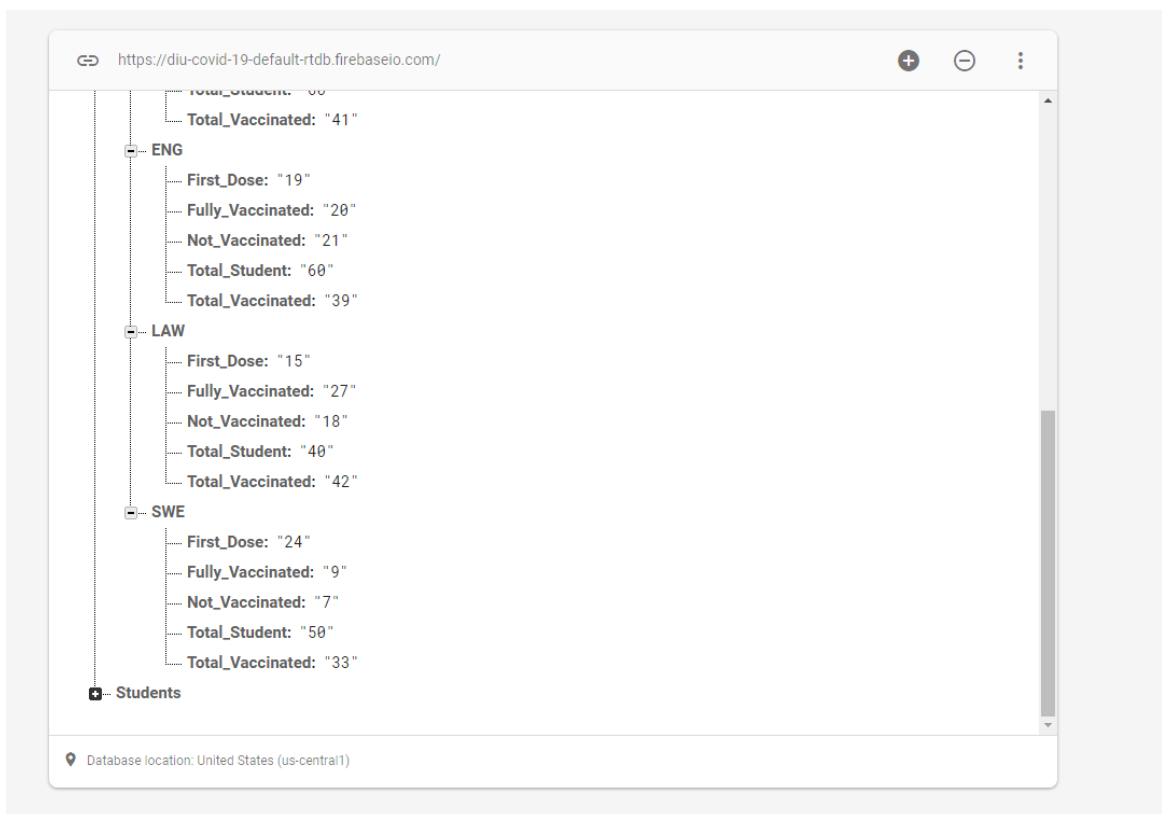
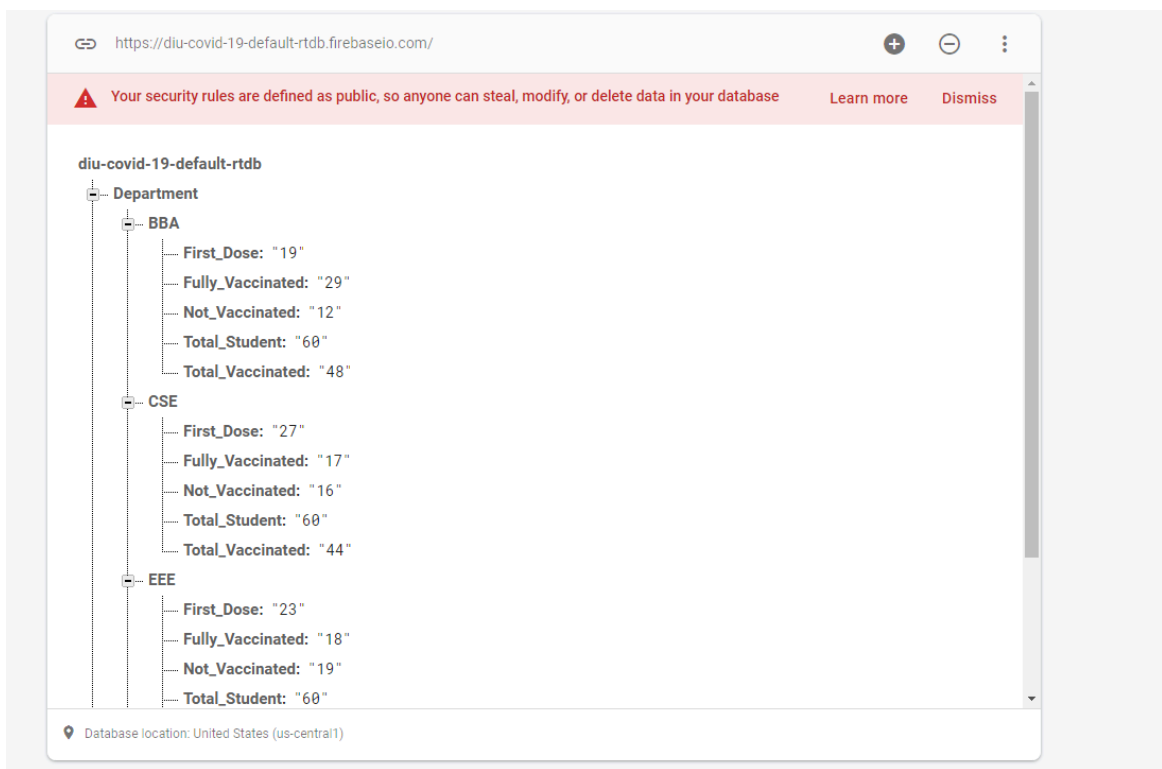
Backend Firebase Database interface :

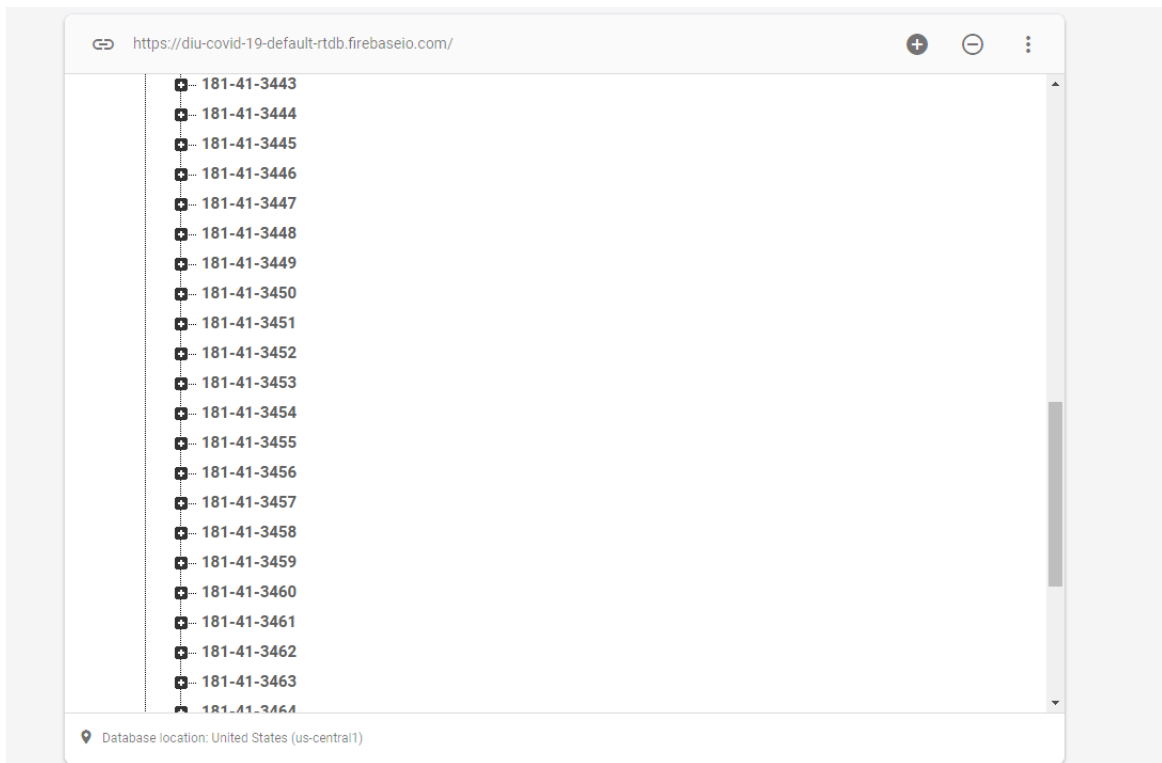
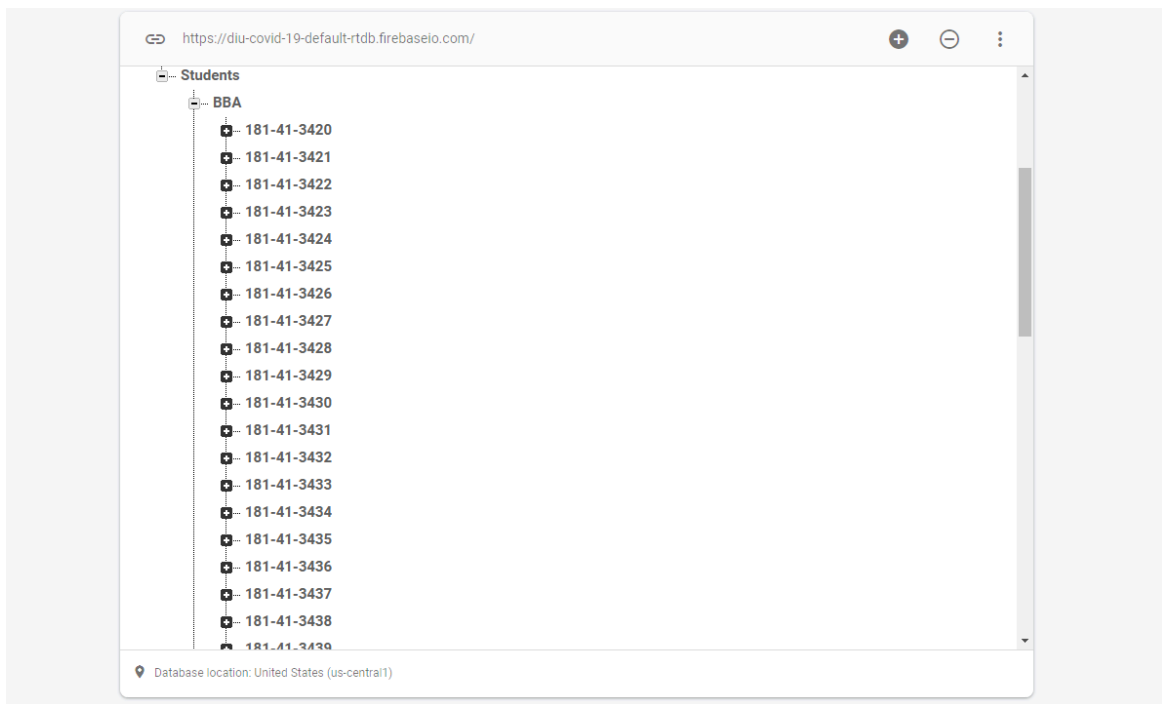


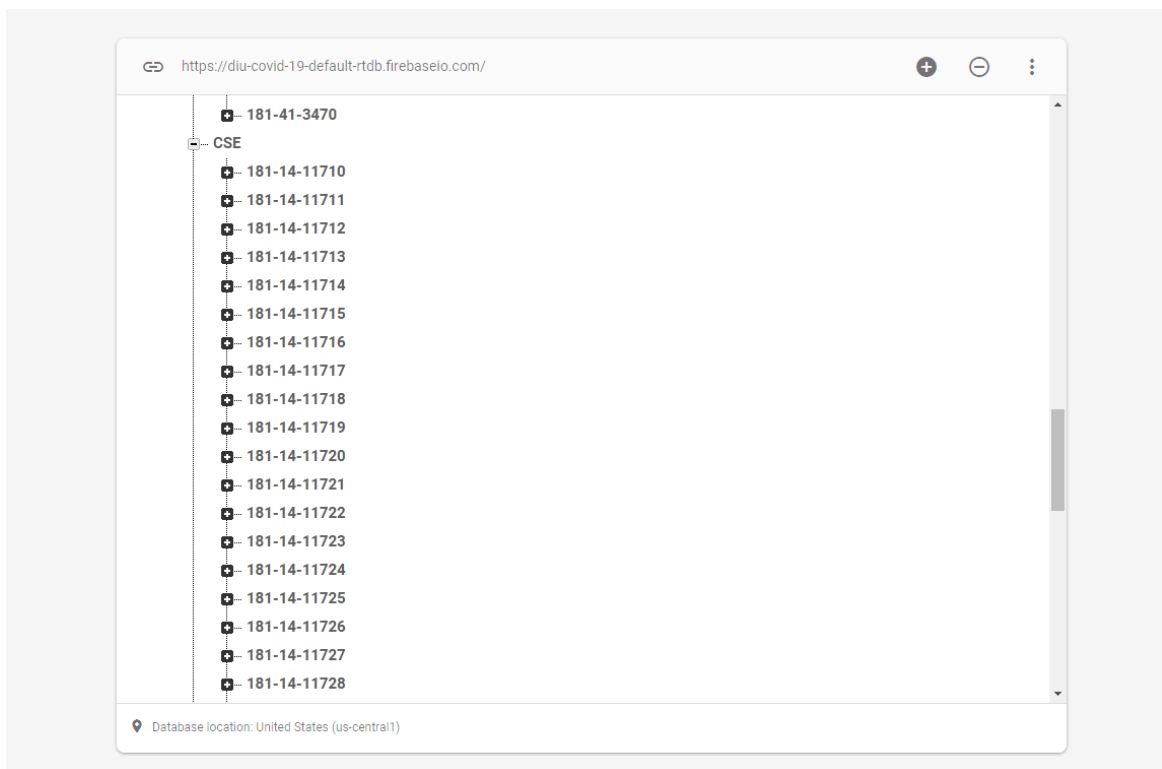
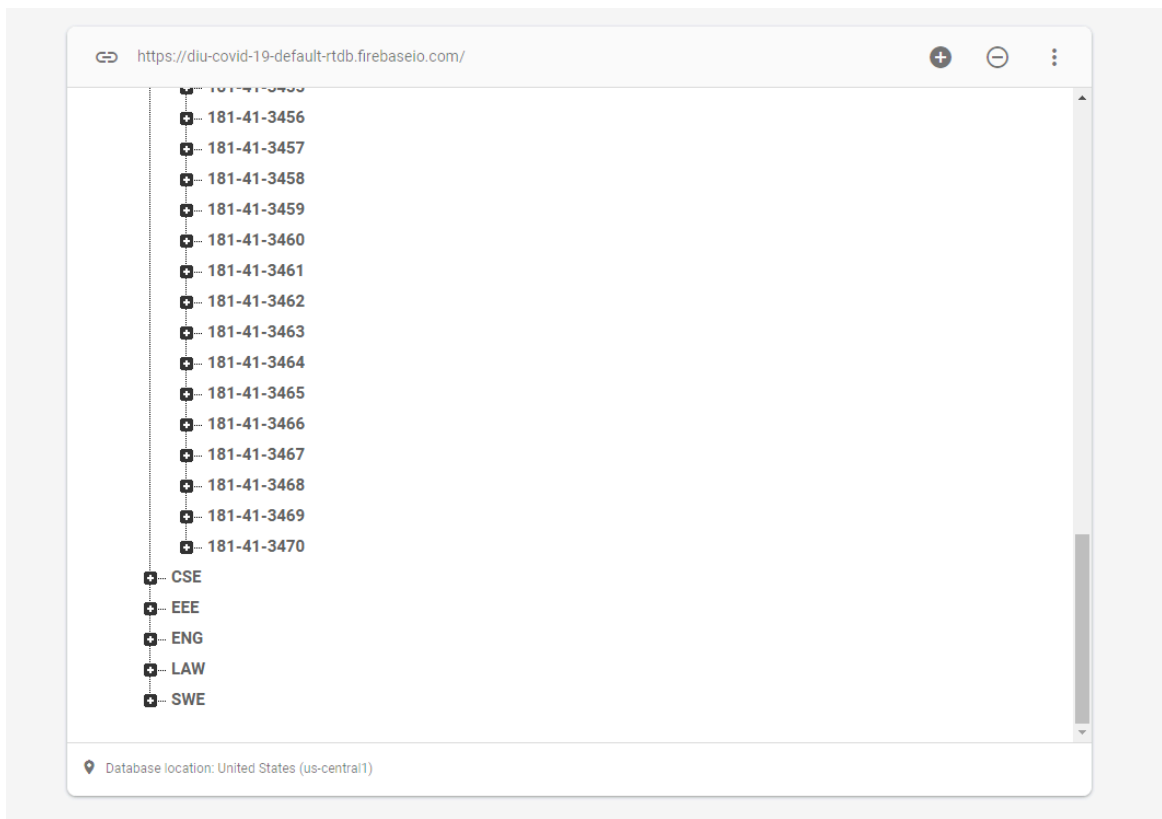
This screenshot shows the 'Authentication' page in the Firebase console. The page has a sidebar with navigation links for 'Project Overview', 'Build', 'Release & Monitor', 'Analytics', and 'Engage'. The main content area is titled 'Authentication' and has tabs for 'Users', 'Sign-in method', 'Templates', and 'Usage'. The 'Users' tab is selected, showing a table of users. The table has columns for 'Identifier', 'Providers', 'Created', 'Signed in', and 'User UID'. There are three users listed in the table. At the bottom right of the table, there's a 'Rows per page' selector set to 50 and a pagination indicator showing '1 - 3 of 3'.

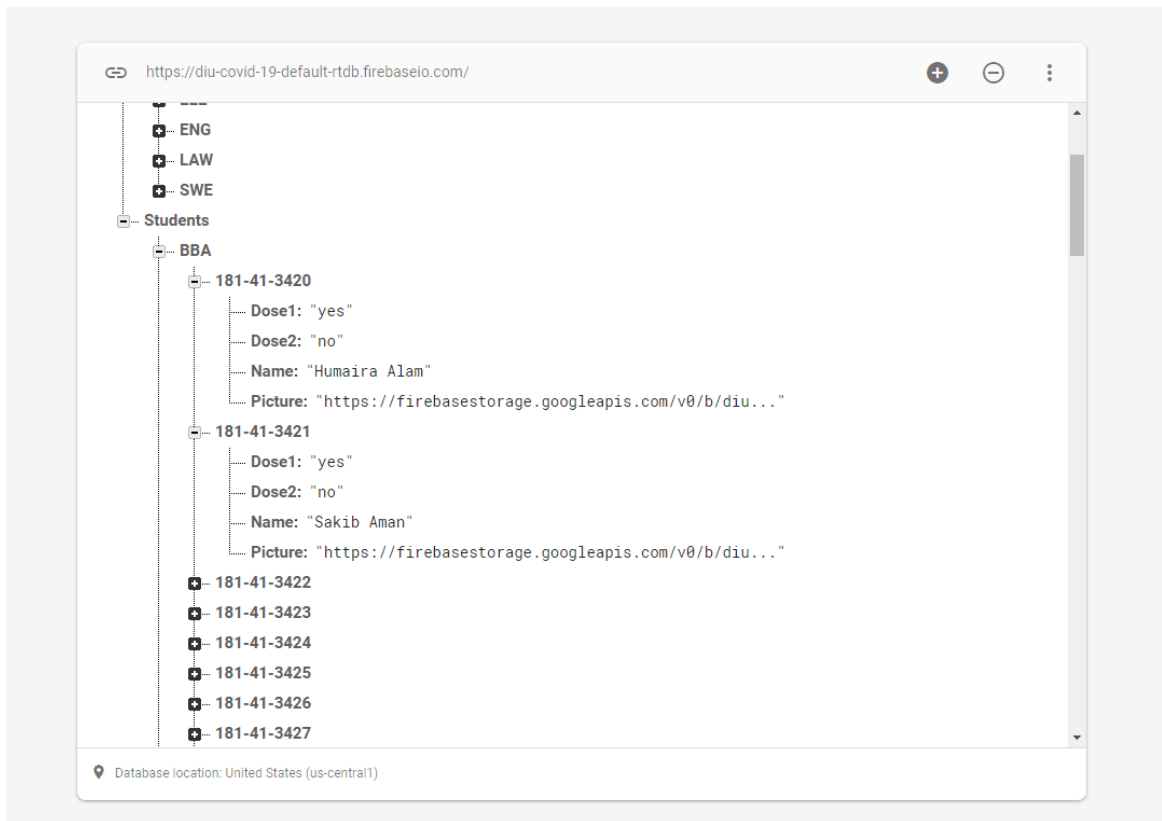
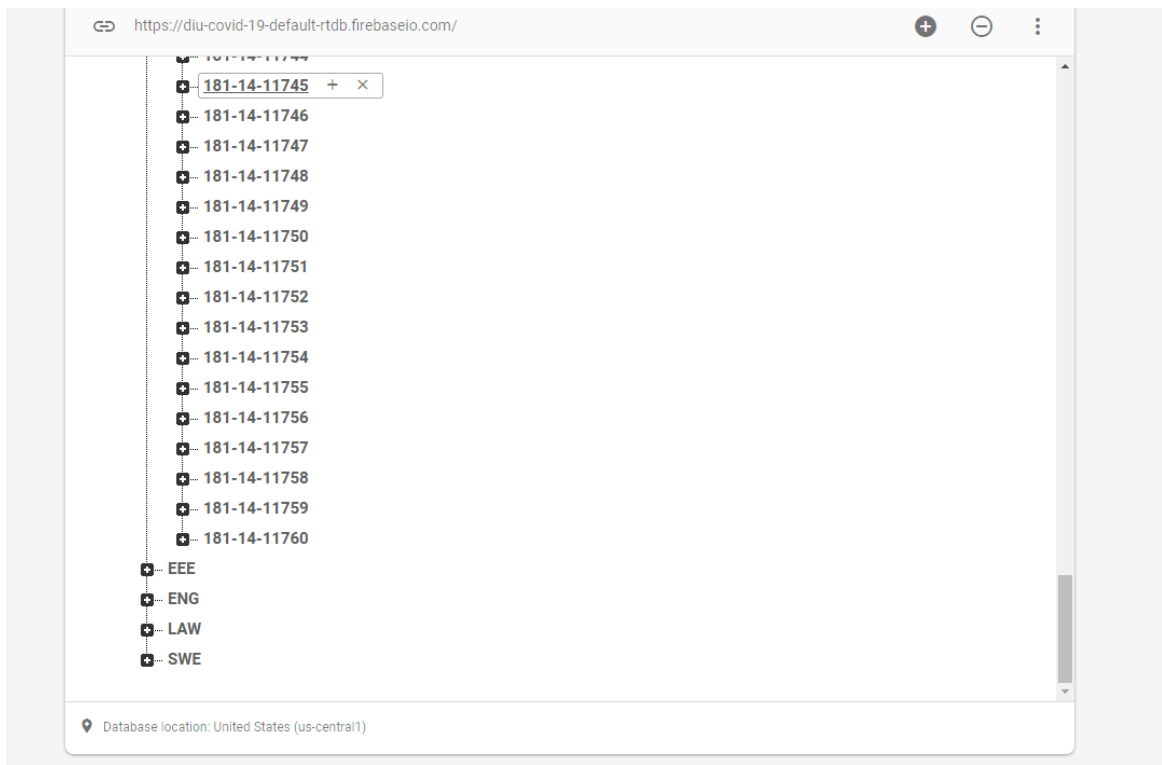
Identifier	Providers	Created	Signed in	User UID
sakib35-3460@diu.edu.bd	📧	Dec 10, 2021	Dec 11, 2021	ET70m4W8MDVQW9AHgN0JCIDIND...
sakib35@diu.edu.bd	📧	Dec 10, 2021	Dec 10, 2021	RLyH8SfcTVNvYxsl3w198mLUJ7x2
#@diu.edu.bd	📧	Dec 10, 2021	Dec 10, 2021	QprgcjSjL1VhXmviSHdohZGduwNg1

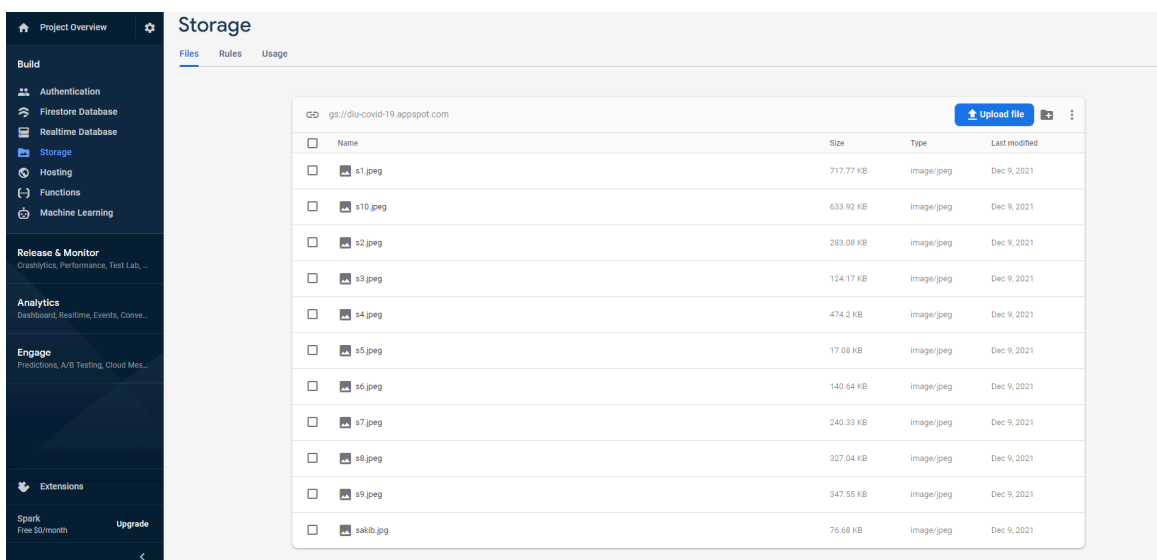
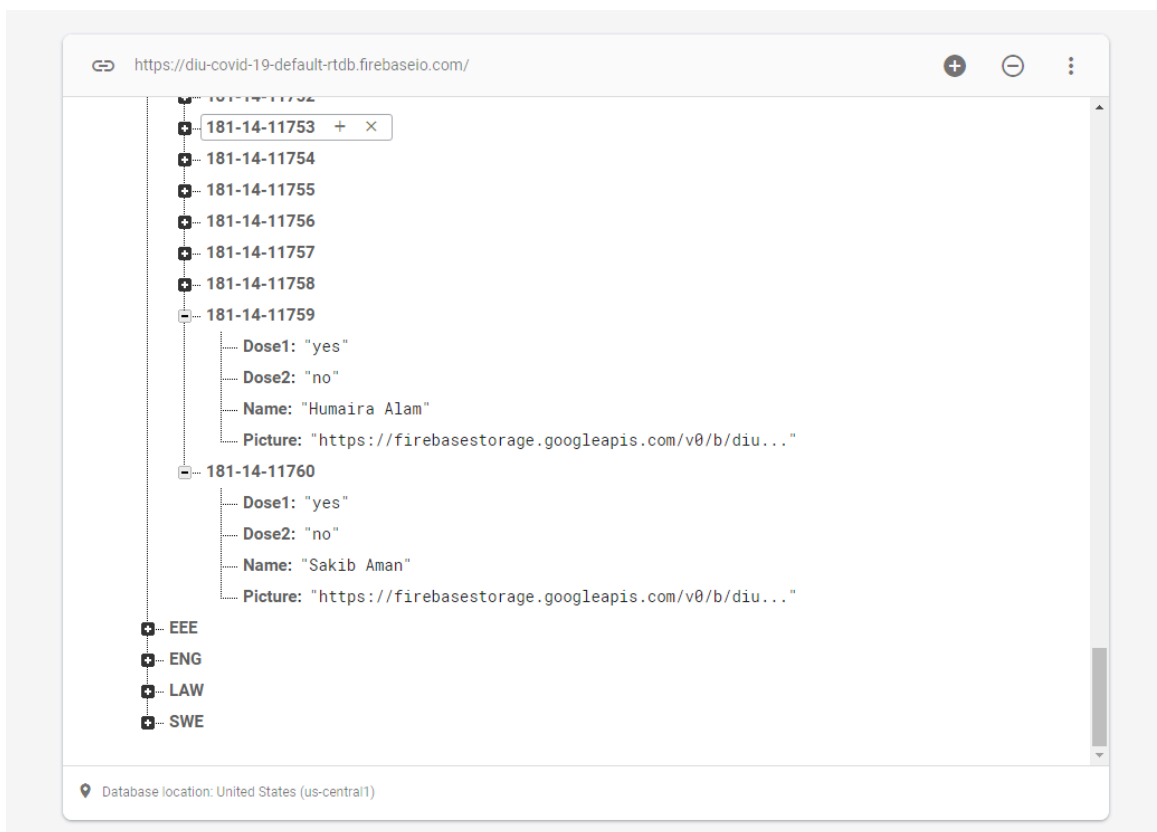












CHAPTER 7

System Testing

7.1 Testing Features

Unit Testing is a software procedure strategy. Here test each partitioned unit of code. I really utilized this method after wrapping up the project. I found a few blunders in my system. At that point, I attempt to resolve it.

Acceptance Testing is utilized sometime recently in the system discharge. When I utilize this strategy I actually found a few minor mistakes. At that point, I attempt to resolve it. After fathoming the framework bug I release it for utilize.

7.1.1 Features to be tested

- Registration
- Login
- Logout

7.2 Testing Strategies

7.2.1 Test Approach

7.2.1.1 Registration and Login Test

Case:

- After successful registration, I check to see if the admin username/manager username/employee username and password with which the registration was done, works in the login
- Enter the admin username/manager username/employee username and password and click on login and see that it works perfectly
- After Login, it takes us to the web application page.

System Testing:

The whole system is tested to insure the workability

Integration Testing:

Command to previous.

Page Regression Testing:

Data network not enabled not shown

CHAPTER 8

Evaluation

Know backup and deft of the project we think to set an evaluation. The evaluation show of the system is substantially a study. The deliberate of the evaluation is to check the improvement of work. To get an exact see of the value of my work among the diverse clients I have given them my system and ask questions related to my system. I have found the answer is they are considering I have done adequate work which is required for a pharmacist to record their day-by-day exchange of business. A few said that they have profited to eradicate time to offer.

CHAPTER 9

Conclusion

9.1 LIMITATIONS

➤ Mobile Phone access

9.2 Conclusion

To spare our commendable time and Medication putting away area in our country, there's no apt venture on this area. So that's the reality behind that we select and imagine the best bear. Each intension hast few hardiest preventions, I confronted too. Trust my work will increment execution and diminish the taken toll of pages.

