



Bilkent University

Department of Computer Engineering

CS319 TERM PROJECT

Section 3

Group Lux Æterna

Bilkent Pandemic Manager

Analysis Report

Group Members:

- Remzi Tepe (21802713)
- Deniz Semih Özal (21802414)
- Arman Engin Sucu (21801777)
- Berkan Sivrikaya (21803052)
- Saitcan Başkol (21803589)

Supervisor: Eray Tüzün

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1. Introduction

As our group, we decided to implement a pandemic manager application that tries to make Bilkenters' life easier by tracking their Covid-19 status in the campus because Covid-19 outbreak is still continuing and education life has been suspended for a while. Yet, students should not lag behind their rivals since online education is not as efficient as face to face. Therefore, it is important to implement such an application to keep track of students and instructors while they are in the face to face system.

In the light of the needs of a pandemic manager, it is decided to have different features for both students and instructors because they will get through the pandemic in different ways. We, as the group, decided to implement a pandemic manager since it is crucial to prevent more losses from this outbreak now on. Thus, the application has the following features:

- Add/Update HES codes, vaccination cards, and Covid-19 test results
- Add/Eject nearby students
- Access which student is diagnosed
- Warnings for infected students and their instructors
- Covid-19 questionnaires
- Covid-19 Stats in Bilkent

2. Proposed System

The application will have a login page for all users including students, instructors, and admins. They can easily access the main page from the same login page. After that, they can use the functionalities in the main page such as add/update HES codes, vaccination cards and Covid-19 results. Other than that, students can keep track of their nearby classmates in courses page while instructors keep track of who is diagnosed. Moreover, users can see Covid-19 stats in Bilkent and more specific places such as dorms and courses and users can also take questionnaires and tests to know about their sensitivity to Covid-19.

2.1. Functional Requirements

2.1.1. Login Page

The application will have a login functionality that appears when entering the application:

- Asks for username (ID number) and password
- All users (students, instructors, admin) will have the same interface.
- Forget password option that renews password in case of forgetting their password
- This page directs all users to the main page that is designed differently for admin and students/instructors.

2.1.2. Main Page

The page when the user logged in will be the main page that has the following functionalities with three boxes in the interface for users and 2 boxes for admins while there is always a sidebar on the left most part and a profile icon and search bar at the rightest top of the page.

- Sidebar will have 6 buttons. These are called the main page, courses, dorms, risk calculator, covid-19 reports, and news. It will be the same for both users and admins and will not change during the actions.
- Profile part will consist of the user's avatar or profile photo and their status such as riskless or contaminated.
- Users can search any keyword on the search bar.
- Students/Instructors can add or update their HES codes on the first box in the middle. After they upload their HES codes, they are able to see if they are risky or not while seeing the last update date.
- In the second box, students/instructors can see their vaccination cards if they are uploaded, otherwise, they need to upload it first and wait until the admin approves that the vaccination card is valid and true for the student. They can upload vaccination cards for both Turkey and other countries since there will be some people vaccinated abroad. If the user does not want to get vaccinated, they can prefer to take PCR or the Diagnovir test

every 72 hours which is required to access the campus and its facilities.

- In the third box, students/instructors can add new diagnoses such as PCR, X-Ray or tomography with their date and files. In case of forgetting or adding wrong files they can update those files in the system. Also, they can see their Covid-19 test history. If their Covid-19 test results are approved and positive, the nearby students and roommates will be notified by email to tell them that they might be infected and need to take Covid-19 test as soon as possible. After they take the Covid-19 test, they have to update the test results constantly every 72 hours to get on campus. Since they are contact students, they will be labeled as contact and risky in the application so the instructor will know their status.
- In the first box of the admin's main page, there will be an approval list from students and instructors about their HES codes, vaccination cards, and test results that awaits approval of admins.
- In the second box of the admin's main page, admin can access and find a user by searching their name. After finding that specific user, admins can update their information such as course or dormitory.

2.1.3. Courses Page

Courses page that users can see and control the courses will have the following functionalities:

- Instructors will be able to see who is diagnosed positive for Covid-19 in each of their courses by selecting the course in the box. After selecting the course, they can see enrolled students and their diagnosis status in the new interface. So, they will know who should be in quarantine or not.
- Students will be able to see their course codes, course names and number of close seating classmates immediately. Also students will be able to select their close seating classmates by clicking the select button at the right. They can add or remove their classmates in this new page. Selected classmates appear or disappear in button below after clicking add or remove buttons.
- Admin will have the authority to create courses by clicking the create course button in the middle, after that they can add students and instructors to that course in the new interface. Since there will be many students like up to 60 students, there will be both manual and excel file upload selection to add students.

2.1.4. Dorms

In this page, statistics about the dorms will be displayed only to the admin:

- Admin will have the authority to create dorms by clicking the create dorm button in the left box, after that they can add students to that dorm room in the right box as specified. Admin can add students in the same block in an excel file to make it more practical.

2.1.5. Risk Calculator

Users can take tests to learn how likely it is to get infected by coronavirus. It has the following functionalities:

- Students/Instructors can solve the Risk Calculator test to learn which risk group they are in according to their health conditions, current international criteria etc.
- They can also take the Am I Corona test to check out if they are currently showing Covid-19 symptoms or not according to criteria of all diseases.

2.1.6. Covid-19 Reports

There will be three types of reports that are open to both students and instructors which have different functionalities:

- Instructors can specifically see who is diagnosed positive for Covid-19 in their courses. They can also see an overall report that does not specifically show who is diagnosed. Instructors naturally cannot see dorms' statistics.

- Students cannot specifically see who is diagnosed positive for Covid-19 in their courses but they can see numbers. They can also see anonymous statistics for their dorms and see the overall report of Bilkent University.

2.1.7. News

News will contain current news about Covid-19 pandemic around the world. It will automatically fetch data from Google News

API

2.1.8. Send Feedback

Users can send feedback to improve the application in its further version.

2.3. Non-Functional Requirements

2.3.1. User-Friendly Interface

The application is designed to not be eye-straining since nobody would want an application that is too complicated and difficult to do actions. Therefore, this application's interface is kept simple to avoid confusion. For example, there are not many options on the sidebar while their functionalities are seen as plain and goal-oriented. On the other hand, using the right colors and designs such as user-friendly buttons will make sure that the users will be more eager to use this application more.

2.3.2. Maintainability

Since the application will be designed in an OOP language, it will not be a problem to add or remove some features and fix the bugs because it will not affect the legacy code. Therefore, there will be no confusion or conflicts in the code while fixing the bugs and adding or removing some features.

2.3.3. Compatibility with Real Life

Since the application will totally be integrated in campus life of students and instruction to maintain and keep track of their Covid-19 status, it can be said that it is fully compatible and integrated with real life. For example, students will add their nearby students from their

actual, real classes. Or, they can be notified when there is someone near to them who is infected.

2.3.4. Safety

The courses will be assigned for each student by the admin so they cannot enroll in another course they are not supposed to do so. Also, students will not be able to see specifically who is diagnosed in their courses since it is confidential and private information of the student. Only the instructors will see who is diagnosed which is necessary to maintain the students' health.

2.4. Pseudo Requirements

The application will be implemented nicely and be supported by all types of operation systems (Windows, Linux etc.). Java and Spring Framework will be used to create the application since they are the most suitable and extensive languages.

2.5. System Models

2.5.1 Scenarios

Use Case 1

Use Case Name: Add/Update Corona Files

Participating Actor: Instructor and Student

Stakeholders and Interests: User wants to add his corona files to the system or wants to update the files

Entry Condition: None

Exit Condition: User successfully add or update the file

Main Flows of Events:

- User add his hes code
- User add his vaccination card
- User add his test result
- Test result is negative

Alternative Flows of Events:

- User add his hes code
- User add his vaccination card

- User add his test result
- Test result is positive
- An email is sent to User's nearby friends in courses and User's roommates in the dormitory to warn that they were in contact with a positive user.

Use Case 2

Use Case Name: Approbation of Corona Files

Participating Actor: Admin

Stakeholders and Interests: Admin checks if the added corona files are valid

Entry Condition: There should be requests in Admin's approval list

Exit Condition: Admin approves or rejects the file

Main Flows of Events:

- Admin checks if there is approval request
- If there is, he checks if the request is valid
- According to the request Admin approves the file or rejects the file

Use Case 3

Use Case Name: Create Course

Participating Actor: Admin

Stakeholders and Interests: Admin can create a course

Entry Condition: None

Exit Condition: Successfully creating a course

Main Flows of Events:

- Admin creates a new course
- Admin adds instructor to the course
- Admin adds students to the course

Use Case 4

Use Case Name: Add Nearby students

Participating Actor: Student

Stakeholders and Interests: Student can add his nearby student in a specific course

Entry Condition: User has to attend a course

Exit Condition: User successfully add or eject his nearby friends

Main Flows of Events:

- User select a course
- User finds his friend from the student list
- User add his friend as nearby

Alternative Flows of Events:

- User selects a course
- User indeliberately add wrong student
- User ejects the wrong student
- User adds his nearby friend

Use Case 5

Use Case Name: Add Student to a Dormitory

Participating Actor: Admin

Stakeholders and Interests: Admin adds students to dormitories

Entry Condition: Student must stay at dormitory

Exit Condition: Successfully adding the student

Main Flows of Events:

- Admin chooses a dormitory
- Admin adds student's floor, block and room number

Use Case 6

Use Case Name: Solve Calculate Your Risk Tests

Participating Actor: Instructor and Student

Stakeholders and Interests: User can solve questions to see his risk level of fatal impact from corona or to see if he shows corona symptoms

Entry Condition: None

Exit Condition: User finishes the test

Main Flows of Events:

- User choose the test type
- User answer the questions
- User submit the test
- User receive his test result

Use Case 7

Use Case Name: Check News

Participating Actor: Admin, Instructor, Student

Stakeholders and Interests: User can check daily Covid-19 news

Entry Condition: None

Exit Condition: User exit from news section

Main Flows of Events:

- User enter news section
- User checks daily news

Use Case 8

Use Case Name: Send Feedback

Participating Actor: Instructor and Student

Stakeholders and Interests: User can send feedback to admin about his complaints

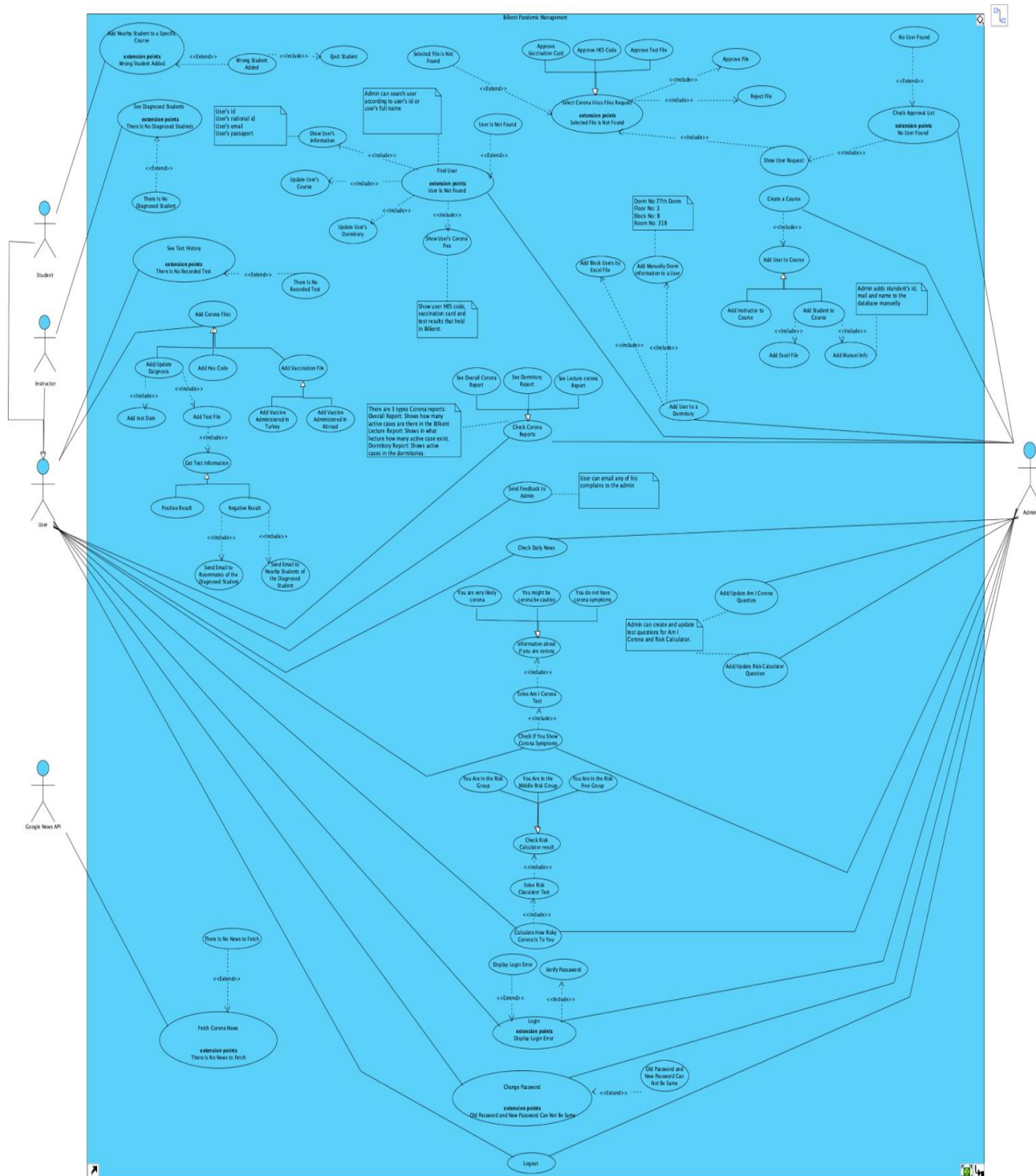
Entry Condition: None

Exit Condition: User successfully send his feedback

Main Flows of Events:

- User writes his feedback
- User send his feedback

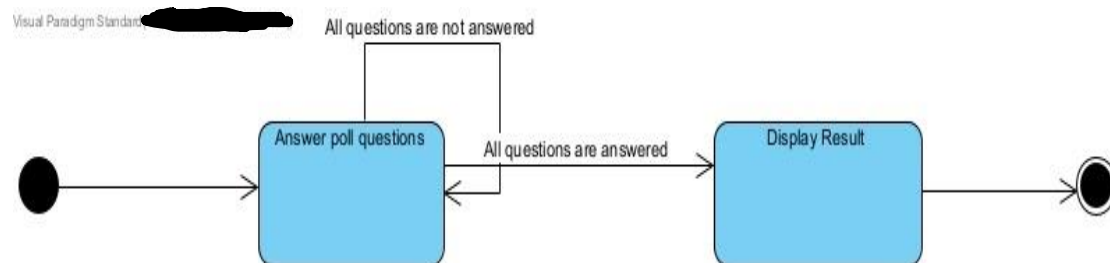
2.5.2. Use Case Model



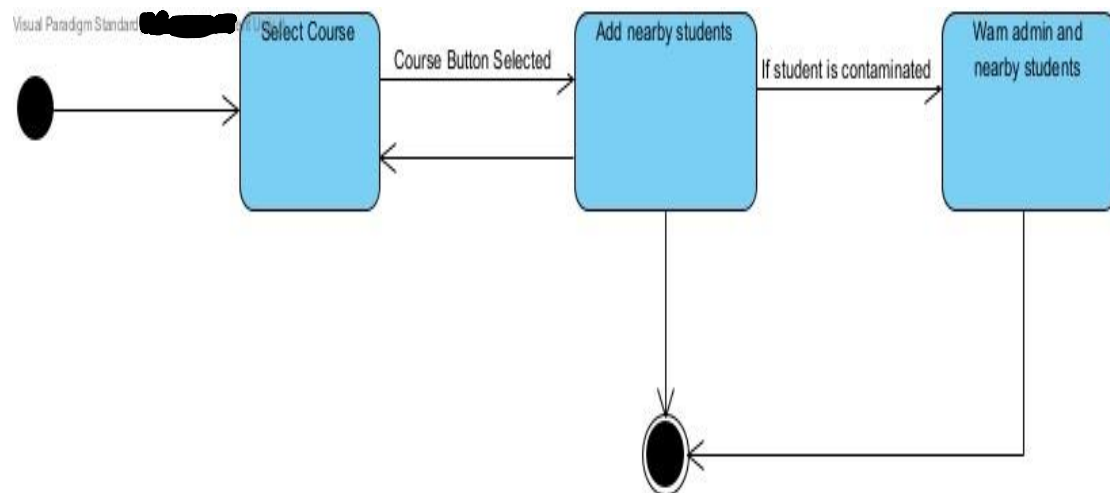
2.5.3. Dynamic Models

2.5.3.1 State Diagrams

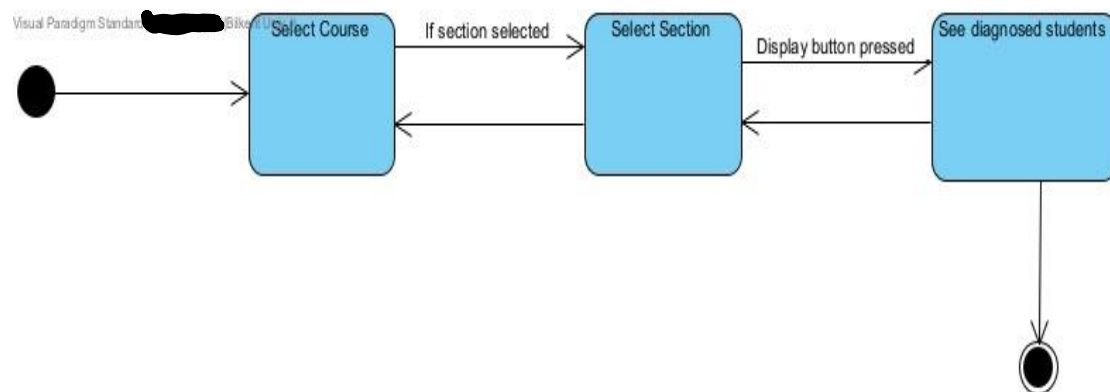
Risk Calculator State Diagram



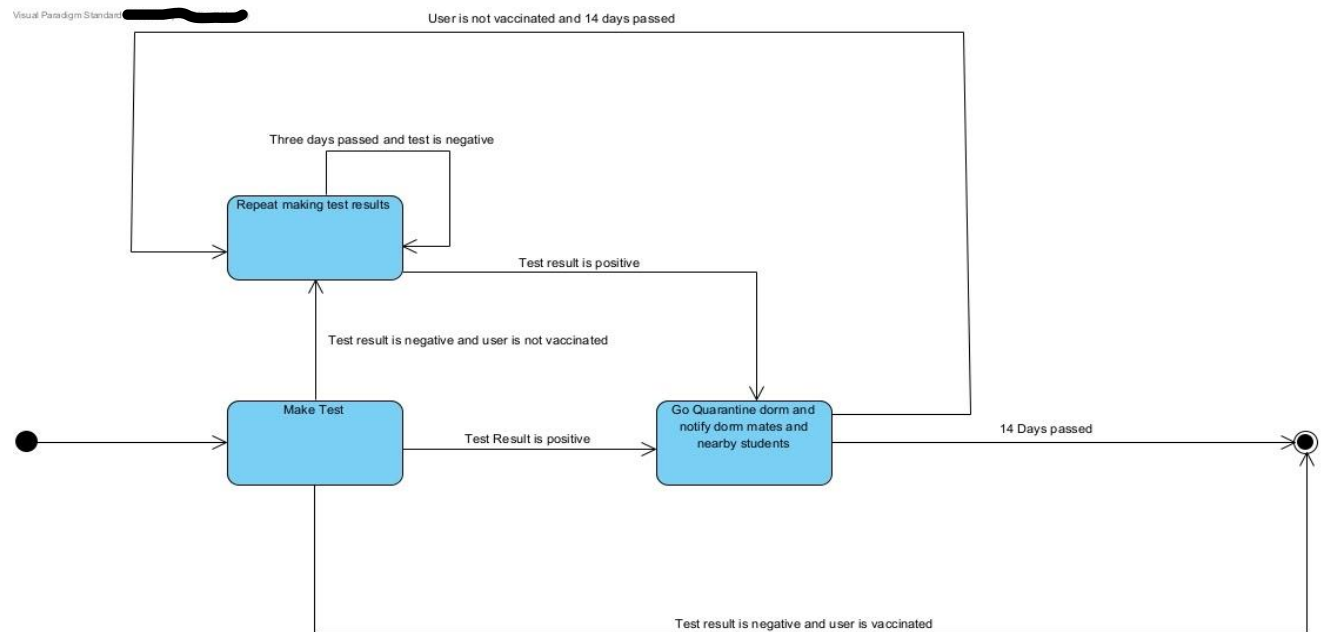
Courses for Student Actor State Diagram



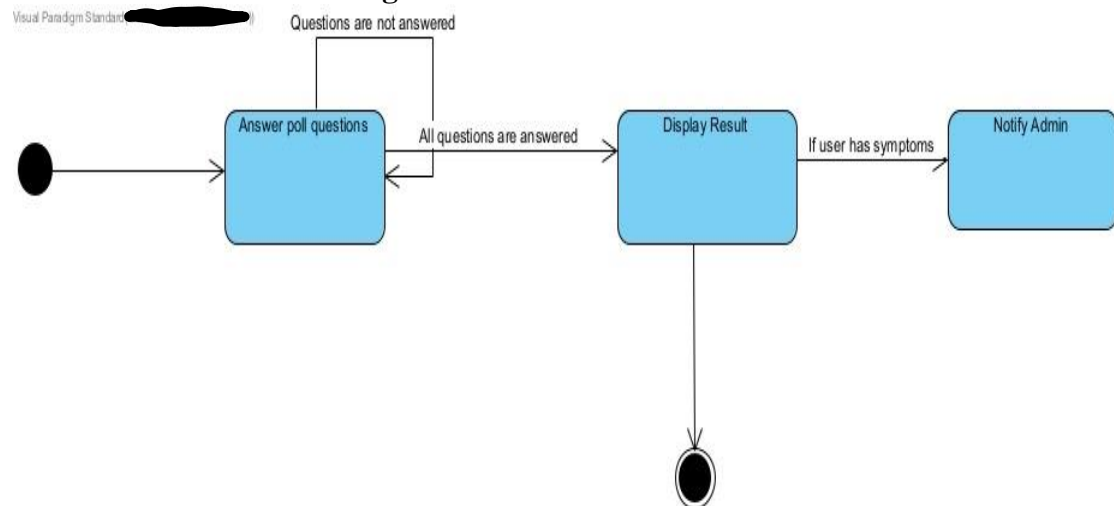
Courses for Instructor Actor State Diagram



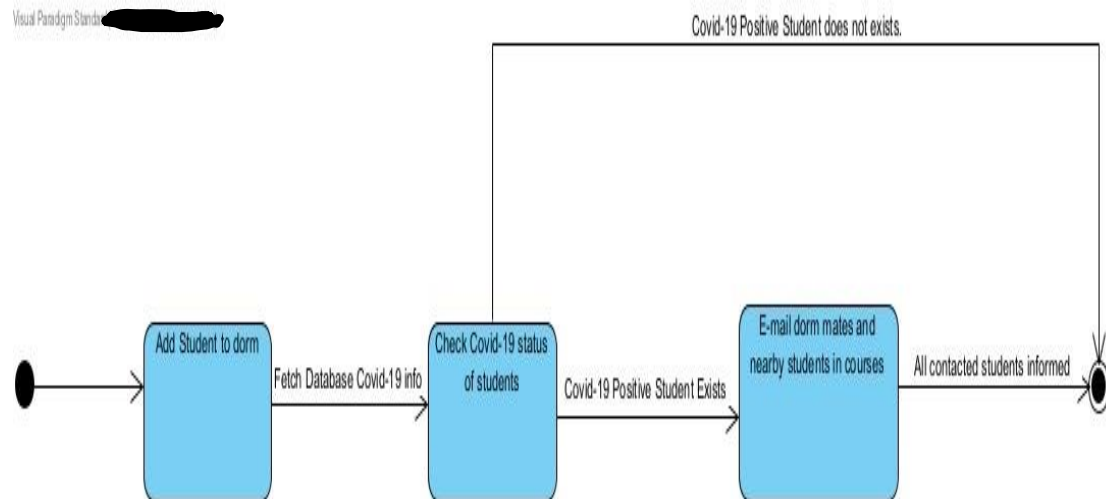
Covid-19 Test Sequence State Diagram



Do I Feel Corona State Diagram

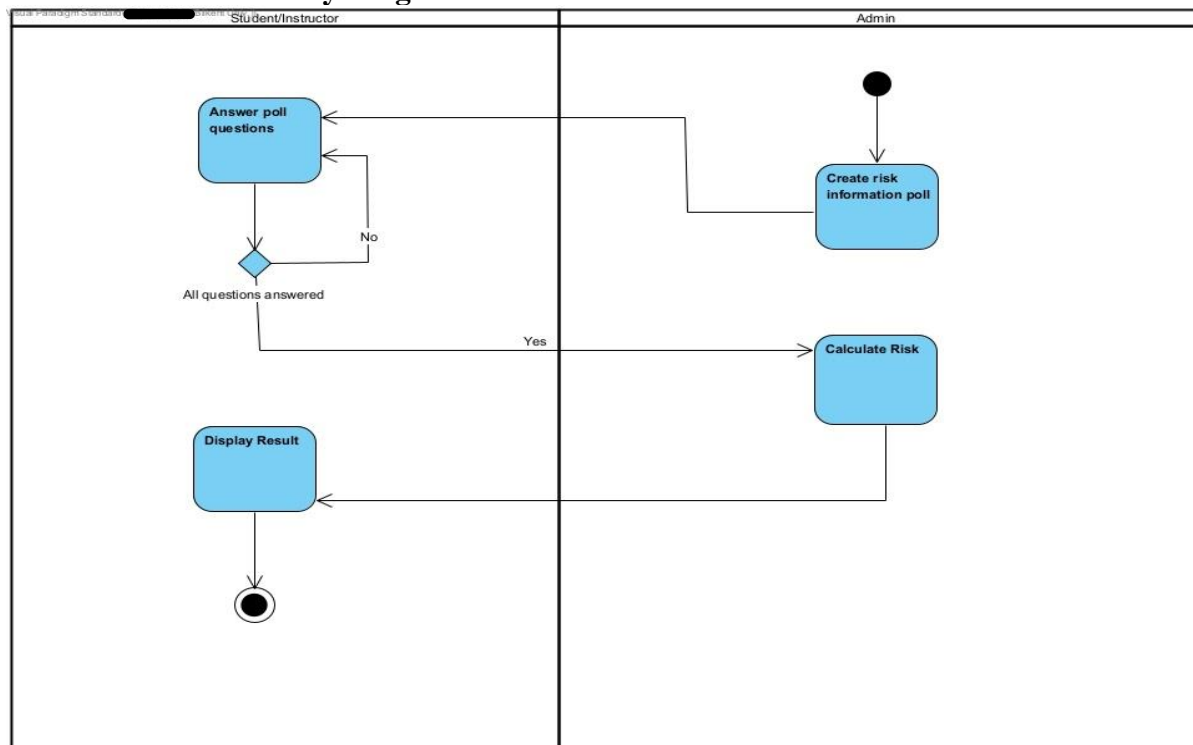


Dorm System State Diagram

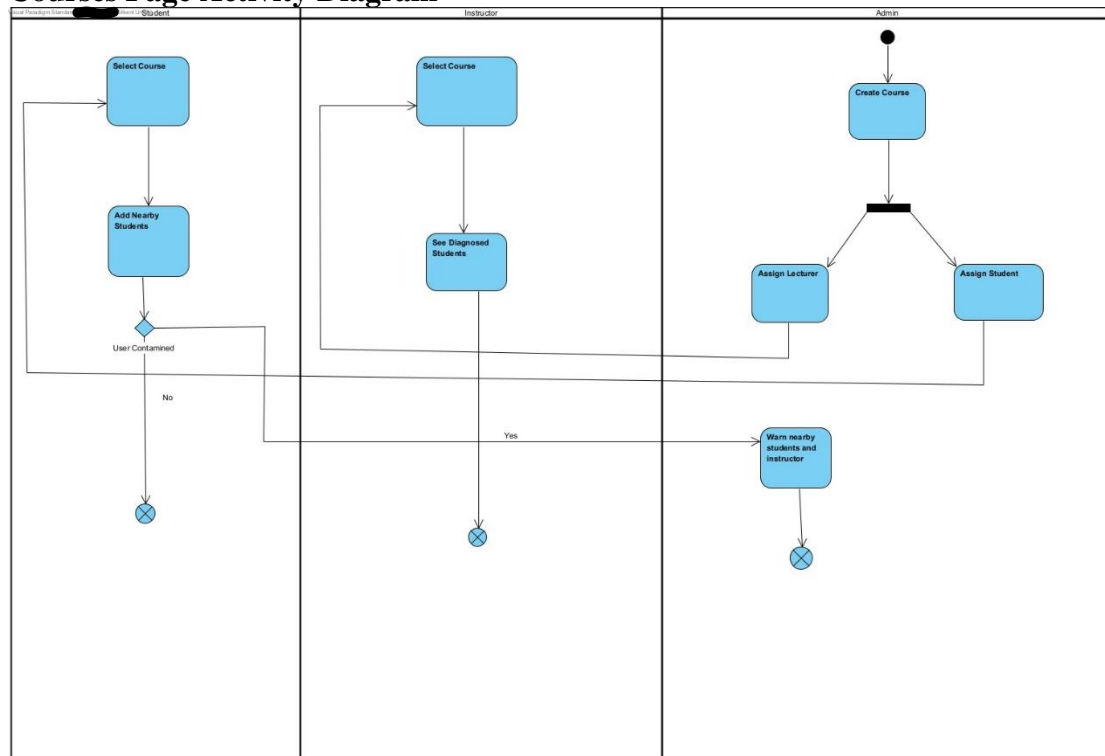


2.5.3.2 Activity Diagrams

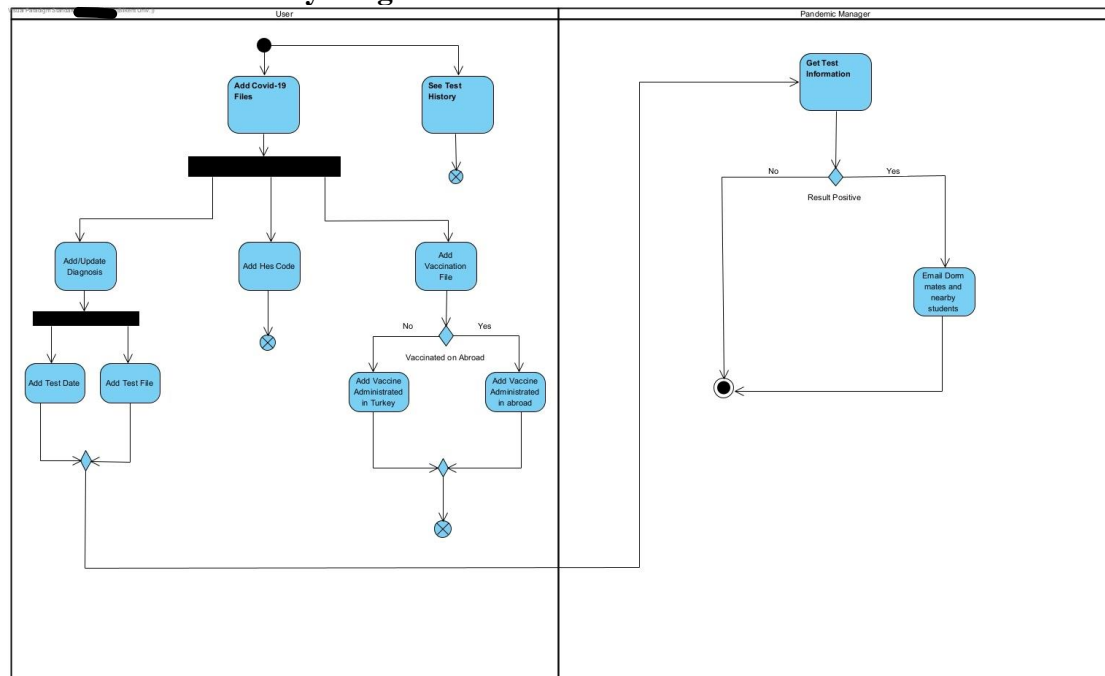
Risk Calculator Activity Diagram



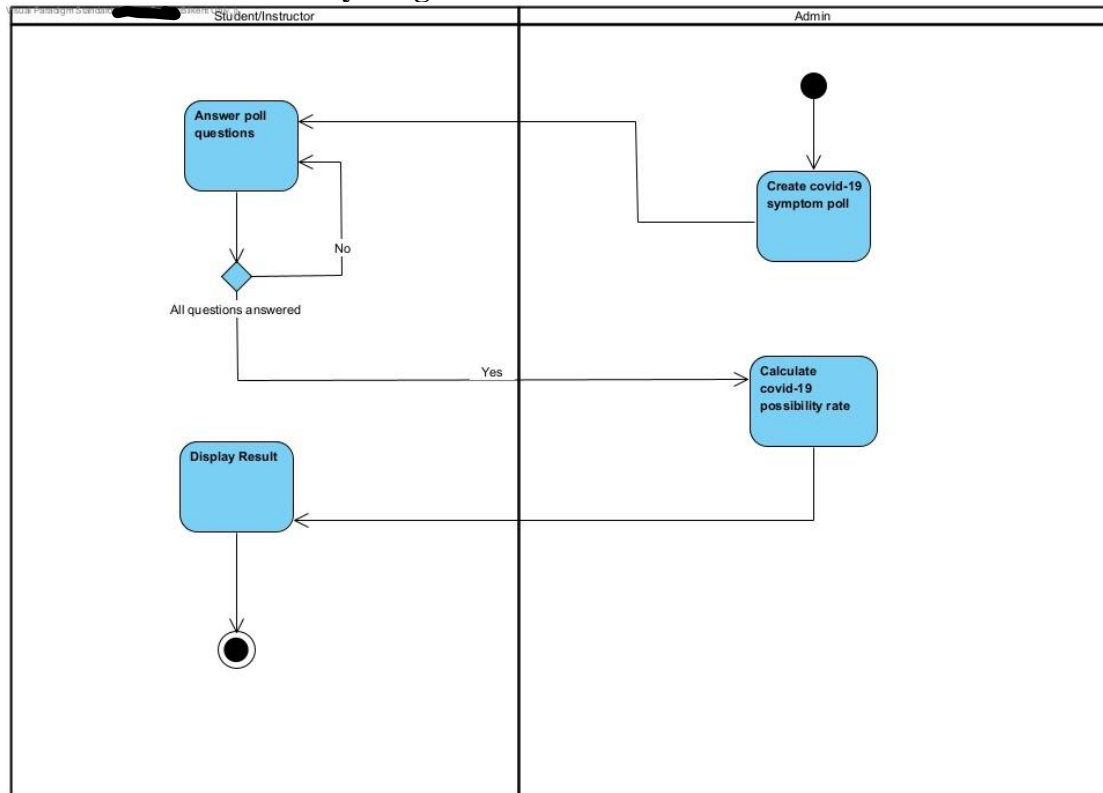
Courses Page Activity Diagram



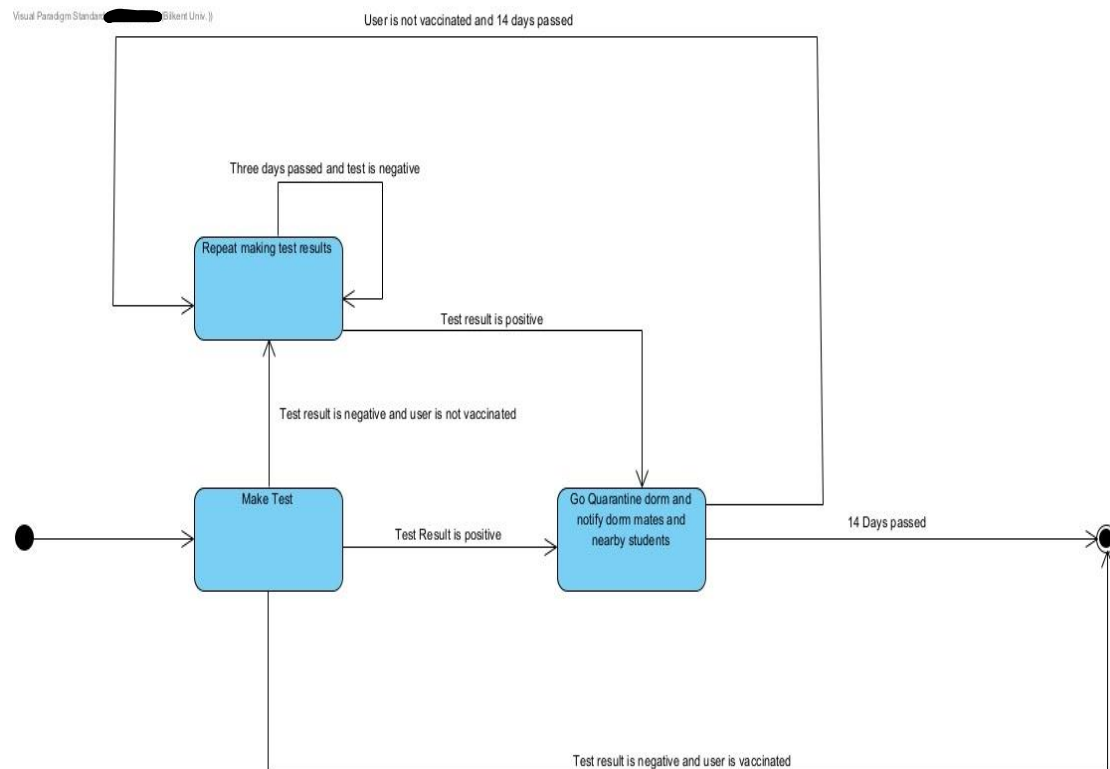
Covid-19 Files Activity Diagram



Do I Feel Corona Activity Diagram

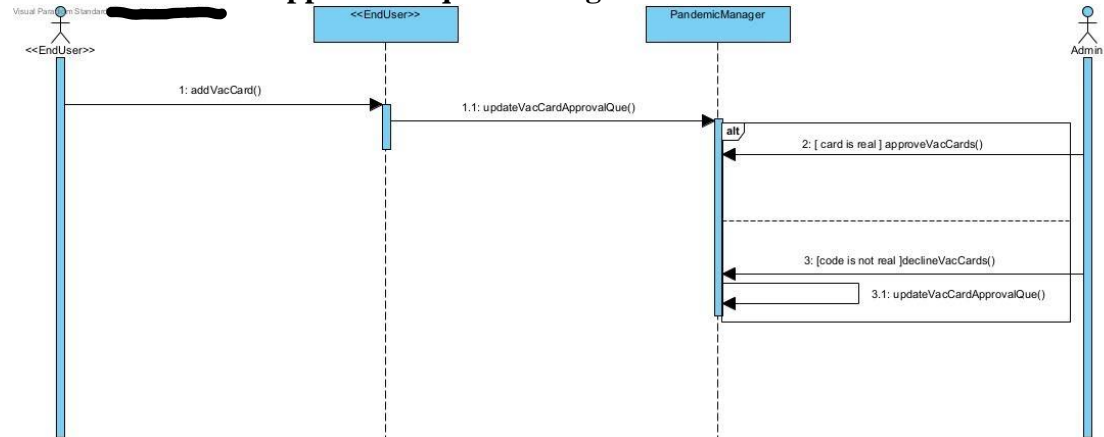


Covid-19 Test State Sequence Activity

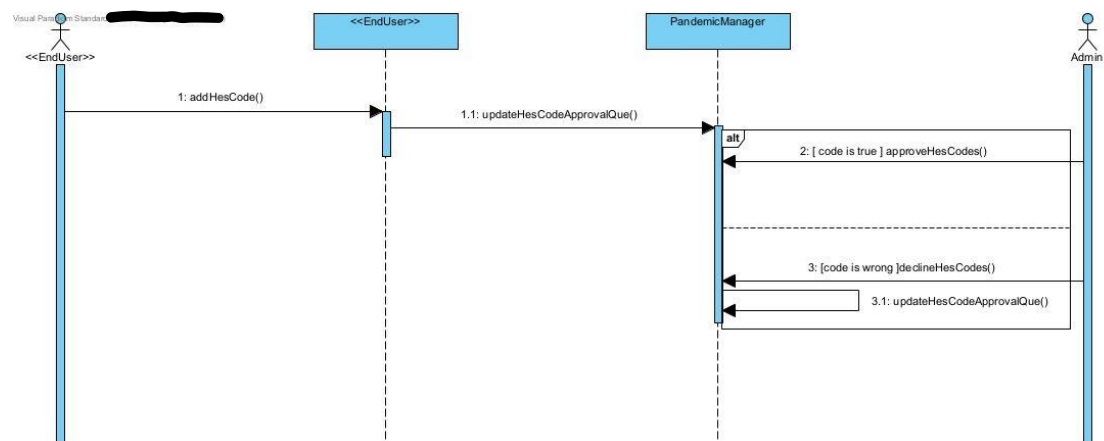


2.5.3.3 Sequence Diagrams

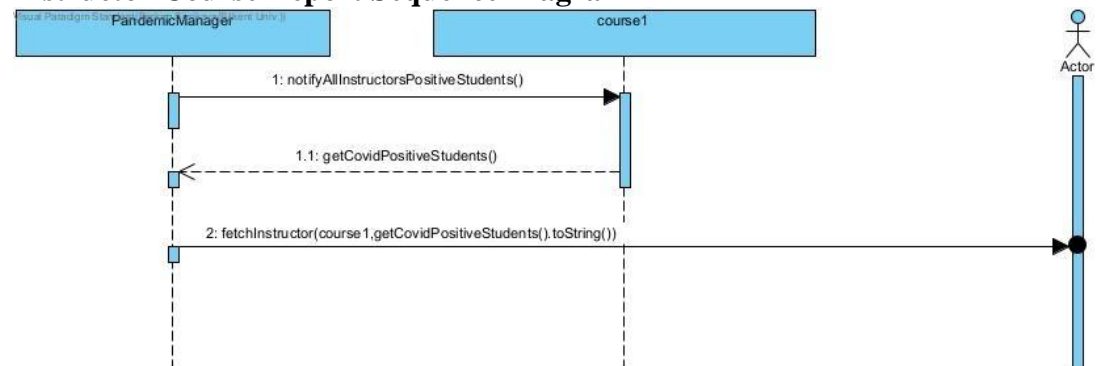
Vaccination Card Approval Sequence Diagram



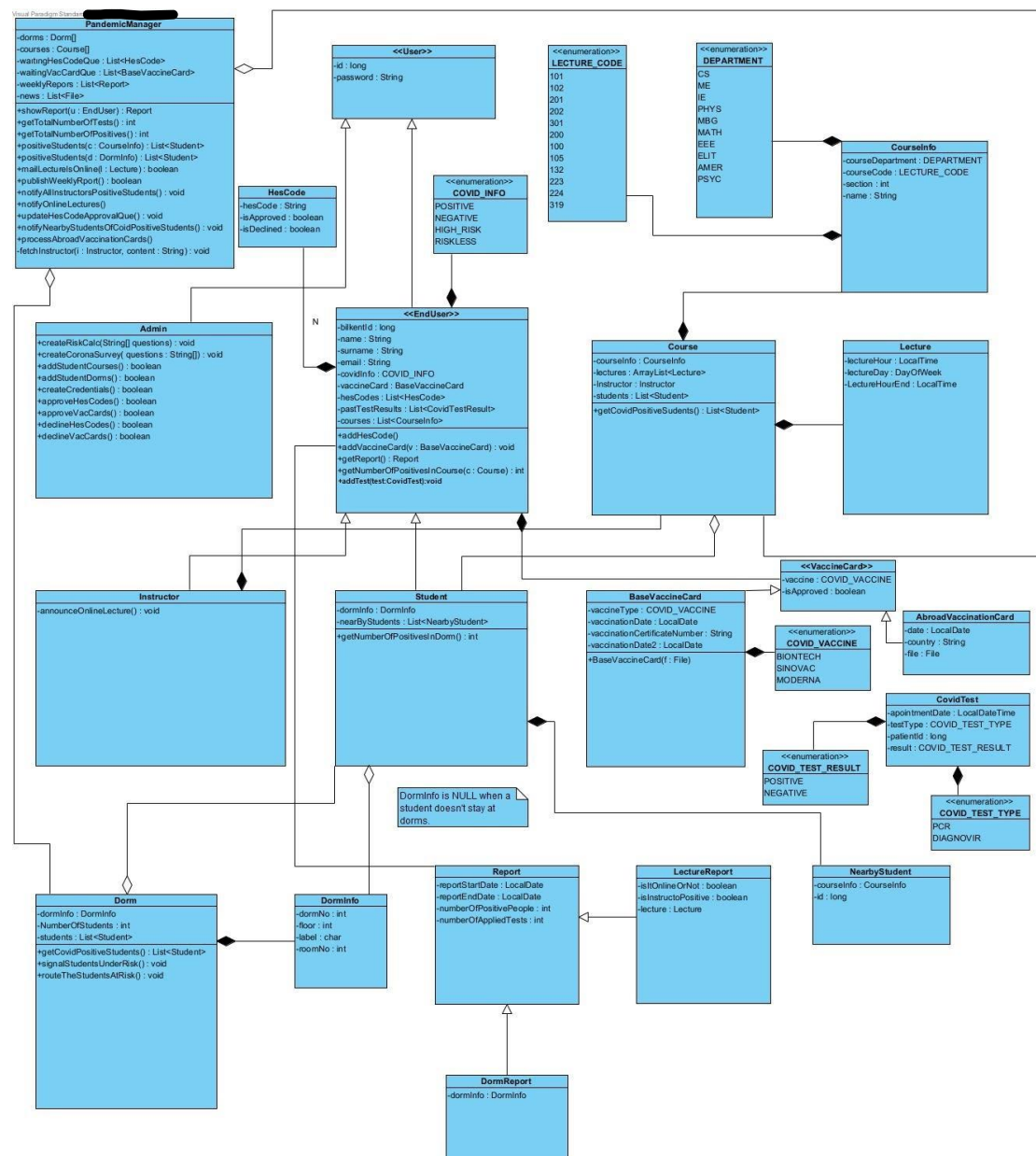
HesCode Approval Sequence Diagram



Instructor Course Report Sequence Diagram



2.5.4. Object and Class Model



Further Explanation for Object and Class Model

PandemicManger: This class is where the actual management happen. Collected vaccination cards and hescodes are stored here before approval lest it is wrong. Later, added to db if approved.

Course: Since the courses are the one of the main meeting reasons of people in a university it needs its own set of functionality.

CourseInfo: CourseInfo object creates an ease of use since courses taken by a student is an aspect of Student object and Students are an aspect of Course objects. In order to avoid infinite recursive cases it is added.

DEPARTMENT: Predetermined Enum for department codes to make editing easier.

LECTURE_CODE: Predetermined Enum for lecture codes to make editing easier.

COVID_INFO: POSITIVE is covid positive, NEGATIVE is covid negative and riskless HIGH_RISK is for people who were near positive people.

Lecture: Lecture object is a way to create regular informing gaps for EndUsers who are part of that Course object. Since POSITIVE students are not allowed in a lecture, Instructors must know covid POSITIVE students before every lecture.

DormInfo: DormInfo object creates an ease of use since the dorm of a student is an aspect of Student object and Students are an aspect of Dorm objects. In order to avoid infinite recursive cases it is added.

Dorm: Since the Dorms are again a place for crowds or close contacts, it needs its own set of functionality. Positive students must go to quarantine dorms and their roommates must be labeled as HIGH_RISK covid info.

User: It is an abstract class to keep the code DRY. Since everybody has to have a Bilkent Pandemic Manager id it is required.

EndUser: It is an abstract class to group the similar requirements of Student and Instructor. Every user that is not admin must be an EndUser.

Student: Different from Instructor object, student object has dorm information which is null if student is not staying at dorms and nearby student information.

Instructor: Since the absence of Instructor because of covid creates different scenarios such as lectures being online if Instructor is covid positive this class is needed.

Report: Report object is required to determine the formation of a report that is fetched to EndUser.

DormReport: A special type of Report object which contains the information of dorm and covid POSITIVE students.

CourseReport: A special type of Report object which contains the information of course and covid POSITIVE students.

VaccineCard: VaccineCard is an abstract class to store both BaseVaccineCard objects and AbrodaVaccineCard objects in the same que.

BaseVaccineCard: Vaccine cards given in turkey stored and processed via this object.

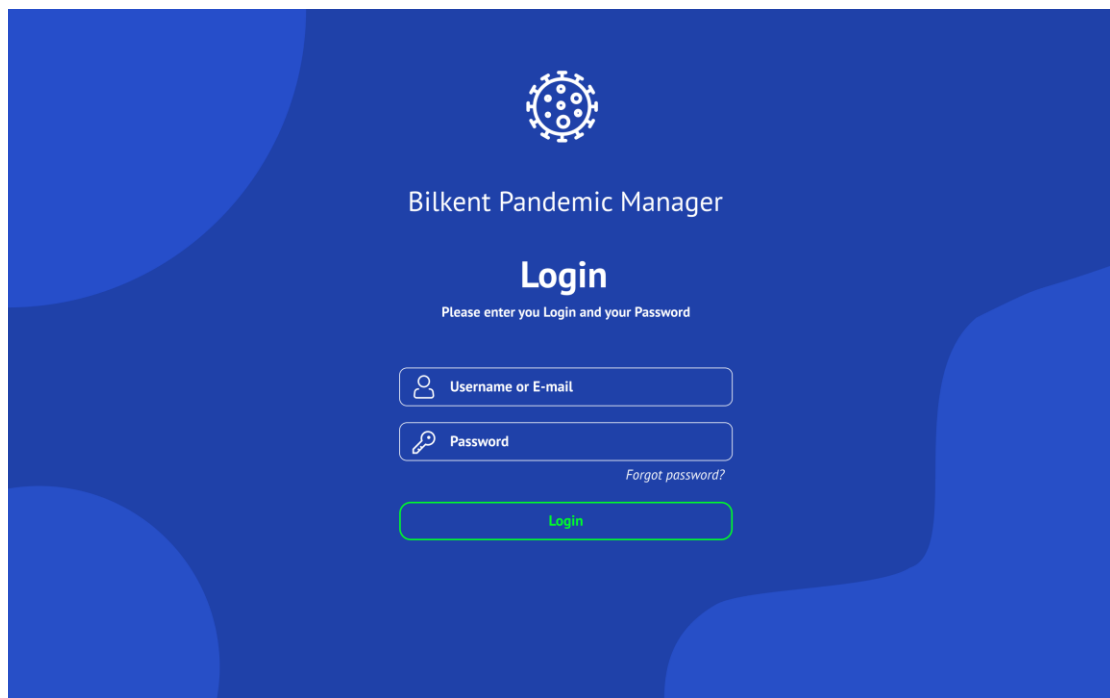
AbroadVaccineCard: Vaccination cards given in Turkey abroad are stored and processed via this object. Since the information contained within these vaccine cards are not known priorly it is stored as a File object.

COVID_TEST_TYPE: in order to diferentiate different test types such as PCR and Diagnovir.

COVID_VACCINE: In order to differentiate different types of vaccines.

2.5.5. User Interface – Screen Mockups

Login Page:



The login page features a dark blue background with abstract light blue shapes. At the top center is a white icon of a virus particle. Below it, the text "Bilkent Pandemic Manager" is displayed in white. The word "Login" is prominently shown in white, followed by the instruction "Please enter you Login and your Password" in a smaller white font. There are two input fields: the first is labeled "Username or E-mail" with a person icon, and the second is labeled "Password" with a key icon. A link "Forgot password?" is positioned to the right of the password field. A green "Login" button is located at the bottom of the form.

User Main Page -> Covid-19 Files

Bilkent Pandemic Manager

Covid - 19 Files

HES Code

HES Code: L9M6-5712-16

HES Status: **RISKLESS**

Last Control Date: 30.10.2021 23:38:10

Vaccinations

Vaccination Date	Vaccine Type	Verified
1 30-06-2021	Pfizer-BioNTech	YES
2 10-08-2021	Pfizer-BioNTech	YES

Vaccination Card / Certificate Number: F6T43955S5

Upload Vaccination Card

Covid-19 Test / Diagnosis Information

Add New Diagnosis

Update Diagnosis

TEST HISTORY

User Main Page -> Covid-19 Files -> Upload Vaccination Card

Bilkent Pandemic Manager

Upload Vaccination Card

Adding Vaccination Turkey

Upload File (Max file size 10MB)

UPDATE CANCEL

Add Vaccination Abroad

Vaccine Name: Select one...

In Which Country Were You Vaccinated?: Select one...

Vaccination Date: [Calendar Icon]

Document: Upload File (Max file size 10MB)

UPDATE CANCEL

User Main Page -> Covid-19 Files -> Add New Diagnosis

The screenshot shows the 'Add New Diagnosis' form within the Bilkent Pandemic Manager application. The form is titled 'Add New Diagnosis' and contains three main sections: 'Diagnosis Type', 'Diagnosis Date', and 'Document'. The 'Diagnosis Type' section has a dropdown menu with 'Select one...' as the placeholder. The 'Diagnosis Date' section has a calendar icon. The 'Document' section has an 'Upload File' button and a note 'Max file size 10MB.'. At the bottom of the form are two buttons: 'UPDATE' (green) and 'CANCEL' (red). The left sidebar shows the navigation menu with 'Covid-19 Files' selected. The top right corner shows the user profile 'James Ferdinand' with a 'NO RISK' status.

Add New Diagnosis

Diagnosis Type: Select one...

Diagnosis Date: [Calendar Icon]

Document: Upload File (Max file size 10MB.)

UPDATE CANCEL

User Main Page -> Covid-19 Files -> Test History

The screenshot shows the 'Test History' table within the Bilkent Pandemic Manager application. The table has four columns: 'Test Date', 'Diagnosis (Test) Type', and 'Result'. There are three rows of data. The first two rows show 'NEGATIVE' results, and the third row shows a 'POSITIVE' result. The left sidebar shows the navigation menu with 'Covid-19 Files' selected. The top right corner shows the user profile 'James Ferdinand' with a 'NO RISK' status.

Test History

	Test Date	Diagnosis (Test) Type	Result
1	31-10-2021	PCR Test	NEGATIVE
2	21-10-2021	X-Ray Test	NEGATIVE
3	15-09-2021	PCR Test	POSITIVE

User Main Page -> My Profile Page

The screenshot shows the 'My Profile' page of the Bilkent Pandemic Manager. The left sidebar contains navigation options: 'Covid-19 Files', 'Courses', 'Risk Calculator', 'Covid-19 Reports', and 'Send Feedback'. The main content area has a green header 'My Profile' and displays user information: Name: James Ferdinand, Bilkent ID: 21145648, National ID No: 32073524612, Passport No: (blank), and E-mail: james.ferdinand@bilkent.edu.tr. Below this, a status message reads: 'You are allowed in on Campus. You are fully vaccinated.' The top right corner shows the user's name 'James Ferdinand', a 'NO RISK' status, and a profile picture.

My Profile

Name: James Ferdinand
Bilkent ID: 21145648
National ID No: 32073524612
Passport No:
E-mail: james.ferdinand@bilkent.edu.tr

You are allowed in on Campus.
You are fully vaccinated

User (Student) Main Page -> Courses

The screenshot shows the 'Courses' page of the Bilkent Pandemic Manager. The left sidebar is identical to the previous page. The main content area has a green header 'Courses' and displays a table of courses. The table has four columns: 'Course Code', 'Course Name', 'Number of Close Seating Classmates', and 'Select Your Closeby Contact'. There are five rows of course data, each with a 'SELECT' button in the last column. The top right corner shows the user's name 'James Ferdinand', a 'NO RISK' status, and a profile picture.

Courses

	Course Code	Course Name	Number of Close Seating Classmates	Select Your Closeby Contact
1	CS 299 - 001	Summer Training I	0	<button>SELECT</button>
2	CS 315 - 003	Programming Languages	2	<button>SELECT</button>
3	CS 319 - 003	Object-Oriented Software Engineering	0	<button>SELECT</button>
4	ENG 401 - 008	Technical Report Writing and Presentation	1	<button>SELECT</button>
5	MATH 230 - 003	Probability and Statistics for Engineers	4	<button>SELECT</button>

User (Student) Main Page -> Courses -> Select Your Closeby Contact

Select Your Closeby Contact

	Name	Bilkent ID	Select Your Closeby Contact	
1	Mehmet Can	21804567	<button>ADD</button>	<button>REMOVE</button>
2	Huseyin Kaya	21803283	<button>ADD</button>	<button>REMOVE</button>
3	Serkan Yasa	21809237	<button>ADD</button>	<button>REMOVE</button>
4	James Mardock	21803746	<button>ADD</button>	<button>REMOVE</button>
5	Feridun Sana	21903947	<button>ADD</button>	<button>REMOVE</button>

Selected Classmates: Mehmet Can
Serkan Yasa
Feridun Sana

User (Instructor) Main Page -> Courses

Courses

	Course Code	Course Name	Number of Corona Cases	See Diagnosed Students
1	CS 319 - 001	Summer Training I	0	<button>SELECT</button>
2	CS 319 - 002	Programming Languages	2	<button>SELECT</button>
3	CS 319 - 003	Object-Oriented Software Engineering	0	<button>SELECT</button>

User (Student) Main Page -> Courses -> See Diagnosed Students

See Diagnosed Students

Diagnosed Students in CS 319 - 001

	Name	Bilkent ID	Status
1	Ramiz Karaeski	21801324	POSITIVE
2	Ezel Bayraktar	21806879	POSITIVE
3	Leonardo Di Caprio	21807869	RISKY

User Main Page -> Risk Calculator

Risk Calculator

Calculate Your Risk Group

1. Question text goes here.
☐ Multiple choice answer
☐ Multiple choice answer
☐ Multiple choice answer

2. Question text goes here. 1= Strongly Agree, 5 = Strongly Disagree.
1 2 3 4 5

3. Question text goes here.
Select one...
APPLY

Am I Corona

1. Question text goes here.
☐ Multiple choice answer
☐ Multiple choice answer
☐ Multiple choice answer

2. Question text goes here. 1= Strongly Agree, 5 = Strongly Disagree.
1 2 3 4 5

3. Question text goes here.
Select one...
APPLY

User Main Page -> Covid-19 Reports

The screenshot shows the 'Covid-19 Reports' section of the Bilkent Pandemic Manager. The left sidebar contains navigation links: 'Covid-19 Files', 'Courses', 'Risk Calculator', 'Covid-19 Reports' (selected), and 'News'. The top right shows a search icon, a notification bell, and a user profile for 'James Ferdinand' with a 'NO RISK' status. The main content area features a 'Covid-19 Reports' header and a table with the following data:

Daily Cases	Daily Death Number	Number of Tests	Number of recoveries
23096	203	344163	982

Below the table, there are three expandable report cards, all dated 'Sep 15, 2021':

- Overall Corona Report in Bilkent
- Dormitory Corona Report in Bilkent
- Lecture Corona Report in Bilkent

User Main Page -> Covid-19 Reports -> Overall Corona Report in Bilkent

The screenshot shows the 'Overall Corona Report in Bilkent' page. The left sidebar is identical to the previous screenshot, with 'Covid-19 Reports' selected. The top right shows the same search and notification icons. The main content area features an 'Overall Corona Report in Bilkent' header and a text box with the following information:

Bilkent University COVID-19 Report (October 22, 2021)

COVID-19 cases among Bilkent University staff and students currently followed up by the Health Center are as follows:

There are a total of 36 active cases.

Of these patients, 7 are academic staff, 3 are administrative staff, 2 are support staff, 21 are students, 3 are employees of on campus companies. During the last week, 20 new cases were reported and 23 patients have recovered.

All patients are being treated at home and in isolation. Their contacts in campus are thoroughly followed up by the Health Center. Those who are thought to be at risk are asked to get tested and/or quarantine themselves for 14 days.

We wish speedy recovery to all COVID patients.

User Main Page -> Dormitory Corona Report in Bilkent

The screenshot displays the Bilkent Pandemic Manager web application. The left sidebar contains navigation links: Bilkent Pandemic Manager, Covid-19 Files, Courses, Risk Calculator, Covid-19 Reports (selected), News, and Send Feedback. The main content area is titled 'Covid-19 Reports' and features a sub-header 'Dormitory Corona Report in Bilkent'. Below this is a table with four columns: an index, Dormitory, Location, and Number of Corona Cases. The table lists four dormitories, all located at Central Campus, with varying case counts. The user profile 'James Ferdinand' with a 'NO RISK' status is visible in the top right corner.

	Dormitory	Location	Number of Corona Cases
1	78	Central Campus	4
2	77	Central Campus	2
3	76	Central Campus	1
4	91	East Campus	0

User Main Page -> Lecture Corona Report in Bilkent

The screenshot displays the Bilkent Pandemic Manager web application. The left sidebar contains navigation links: Bilkent Pandemic Manager, Covid-19 Files, Courses, Risk Calculator, Covid-19 Reports (selected), News, and Send Feedback. The main content area is titled 'Covid-19 Reports' and features a sub-header 'Lecture Corona Report in Bilkent'. Below this is a table with four columns: an index, Course Code, Course Name, and Number Of Corona Cases. The table lists four courses, with case counts ranging from 0 to 2. The user profile 'James Ferdinand' with a 'NO RISK' status is visible in the top right corner.

	Course Code	Course Name	Number Of Corona Cases
1	CS 299 - 001	Summer Training I	0
2	CS 315 - 003	Programming Languages	2
3	CS 319 - 003	Object-Oriented Software Engineering	0
4	MATH 230 - 003	Probability and Statistics for Engineers	1

User Main Page ->News

The screenshot shows the 'News' section of the Bilkent Pandemic Manager interface. The left sidebar contains navigation links: 'Covid-19 Files', 'Courses', 'Risk Calculator', 'Covid-19 Reports', 'News' (highlighted), and 'Send Feedback'. The top right shows the user 'James Ferdinand' with a 'NO RISK' status. The main content area is titled 'News' and features a green header. Below the header, there are four news items, each with a thumbnail image and a title. The first item shows a person in a hospital bed with the title 'Corona Cases has Increased Tremendously'. The second item shows a dashboard with various statistics and the title 'Daily Cases'. The third item shows a person in a lab coat with the title 'Fahrettin Koca Announced New Decisions'. The fourth item shows a close-up of a virus particle with the title 'New Mutation Has Been Found'. Each item is dated '17 Dec 2020'.

News

Corona Cases has Increased Tremendously

Daily Cases

Fahrettin Koca Announced New Decisions

New Mutation Has Been Found

User Main Page ->Send Feedback

The screenshot shows the 'Send Feedback' section of the Bilkent Pandemic Manager interface. The left sidebar is the same as in the previous screenshot, with 'Send Feedback' highlighted. The top right shows the user 'James Ferdinand' with a 'NO RISK' status. The main content area is titled 'Send Feedback' and features a green header. Below the header, there is a white box with a 'Send Feedback' title and a close button. Inside the box, there is a text input field with the placeholder 'Enter Text Here...'. At the bottom right of the box, there are 'Cancel' and 'Send' buttons.

Send Feedback

You can share any feedback with us

Enter Text Here...

Cancel Send

Admin Main Page -> Awaiting Approval List

The screenshot displays the 'Approval List' page in the Bilkent Pandemic Manager. The left sidebar contains navigation options: Approval List, Find User, Courses, Dormitory, Risk Calculator, Covid-19 Reports, News, and Send Feedback. The main content area features a table with the following data:

	Name	Bilkent ID	Request Type	Saved Files	Select
1	Ramiz Karaeski	21804446	PCR Test		<button>APPROVE</button> <button>REJECT</button>
2	Leonardo Di Caprio	21804356	Vaccination Card		<button>APPROVE</button> <button>REJECT</button>
3	Kevin De Bruyne	21801777	HES Code		<button>APPROVE</button> <button>REJECT</button>

The top right corner shows the user profile: Mohammed Salah Admin, NO RISK, with a search icon and a notification bell.

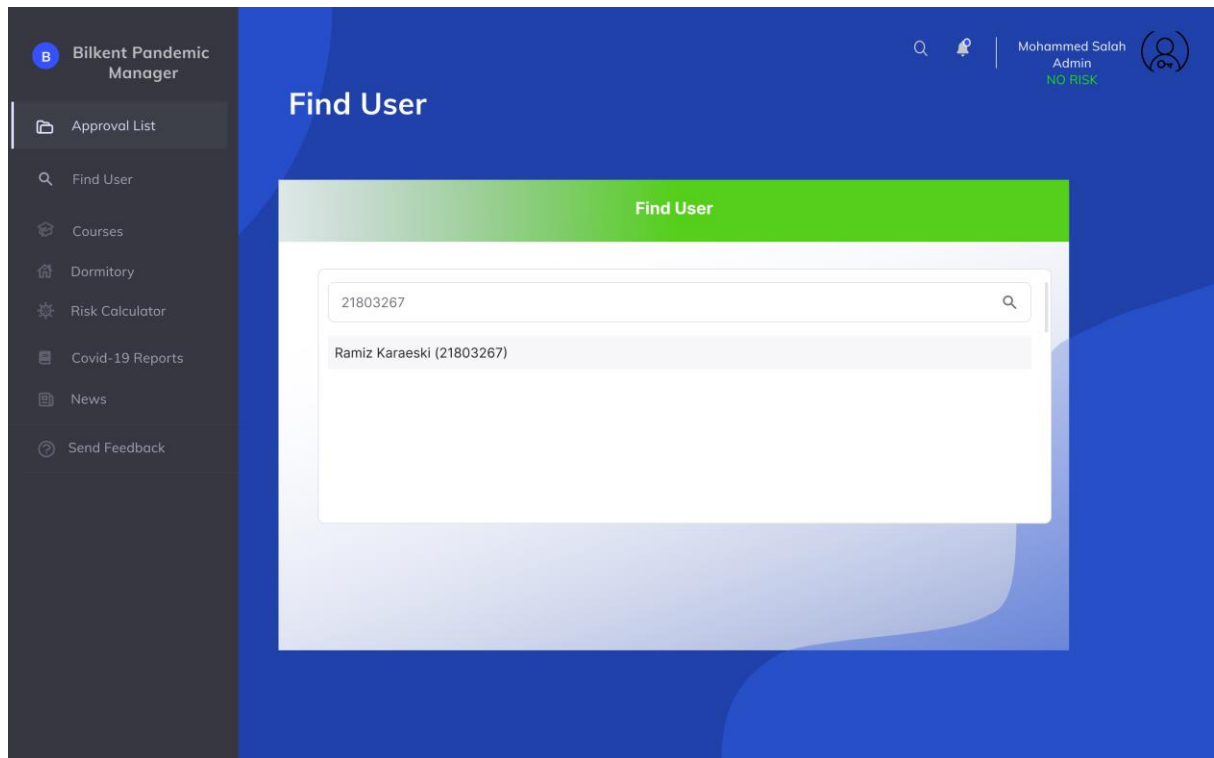
Admin Main Page -> Find User (Search By Name)

The screenshot displays the 'Find User' page in the Bilkent Pandemic Manager. The left sidebar is identical to the previous screenshot. The main content area shows a search bar with the letter 'R' entered. Below the search bar, a list of users is displayed:

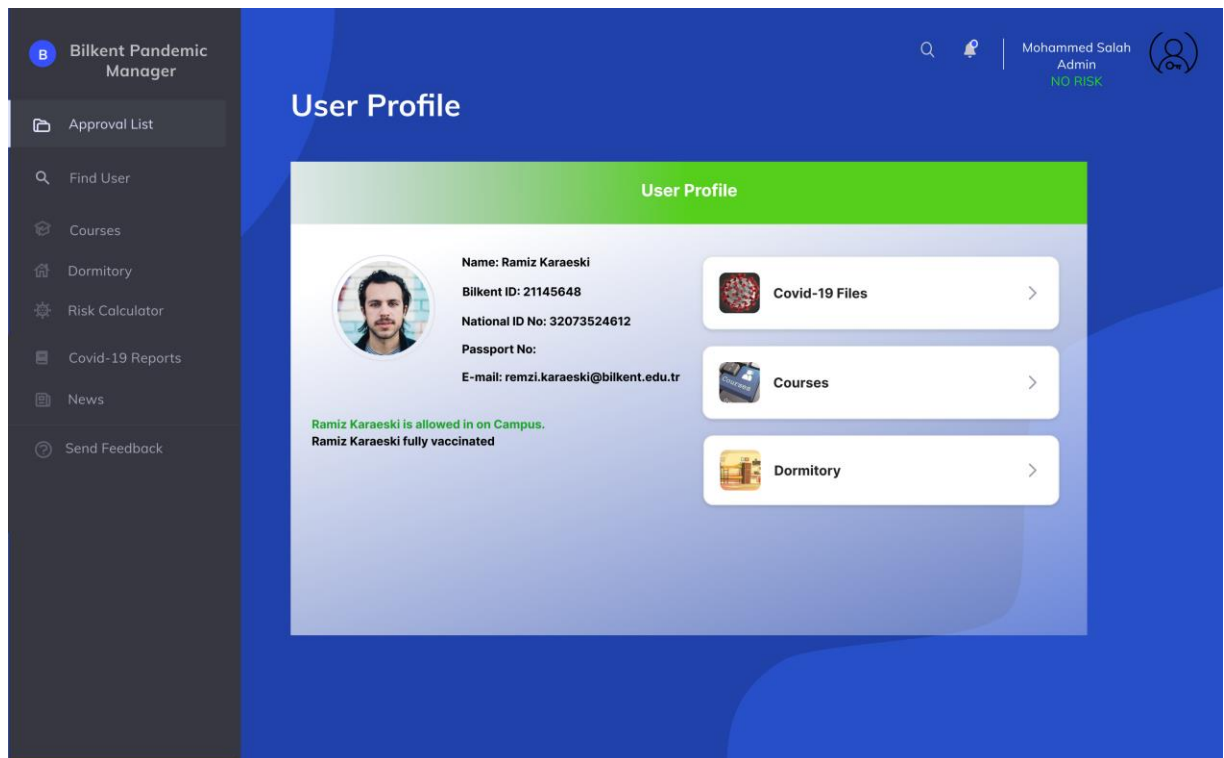
- Ramazan Demir (21805657)
- Ramiz Karaeski (21803267)
- Reyhan Kaya (21807444)
- Resul Abdullah (21602231)

The top right corner shows the user profile: Mohammed Salah Admin, NO RISK, with a search icon and a notification bell.

Admin Main Page -> Find User (Search By ID)



Admin Main Page -> User Profile (After Selecting User)



Admin Main Page -> User Profile-> Covid-19 Files

Bilkent Pandemic Manager

Approval List

Find User

Courses

Dormitory

Risk Calculator

Covid-19 Reports

News

Search

Mohammed Salah Admin
NO RISK

User Profile (Covid-19 Files)

File Type	Saved Files	Download File
Diagnovir / Test Files		
Vaccination Card		
HES Code		

Admin Main Page -> User Profile -> Courses

Bilkent Pandemic Manager

Approval List

Find User

Courses

Dormitory

Risk Calculator

Covid-19 Reports

News

Search

Mohammed Salah Admin
NO RISK

User Profile (Courses)

	Courses	Department	Section	Instructor	Number of Students
1	CS 101	CS	01	.....	49
2	MATH 101	MATH	02	.....	55
3	MBG 110	MBG	03	.....	60
4	ENG 101	ENG	04	.....	60

ADD COURSE **REMOVE COURSE** **UPDATE COURSE**

Admin Main Page -> User Profile -> Dormitory

The screenshot shows the 'User Profile (Dormitory)' page in the Bilkent Pandemic Manager. The left sidebar contains navigation links: Approval List, Find User, Courses, Dormitory, Risk Calculator, Covid-19 Reports, and News. The top right shows the user 'Mohammed Salah Admin' with a 'NO RISK' status. The main content area has a green header 'User Profile (Dormitory)' and a table with columns: Dormitory, Floor, Block, Room, Number of Students, and Date. Below the table are three buttons: ADD DORMITORY INFO, REMOVE DORMITORY INFO, and UPDATE DORMITORY INFO.

Dormitory	Floor	Block	Room	Number of Students	Date
78	1	B	143	3	21.09.2021 - Current
74	4	-	466	3	01.01.2020 - 25.06.2020

Admin Main Page -> Courses

The screenshot shows the 'Courses' page in the Bilkent Pandemic Manager. The left sidebar contains navigation links: Approval List, Find User, Courses, Dormitory, Risk Calculator, Covid-19 Reports, and News. The top right shows the user 'Mohammed Salah Admin' with a 'NO RISK' status. The main content area has a green header 'Courses' and a table with columns: Course, Department, Section, Instructor, and Number Of Students. Below the table are three buttons: ADD COURSE, REMOVE COURSE, and UPDATE COURSE.

	Course	Department	Section	Instructor	Number Of Students
1	CS 101	CS	01	.....	49
2	CS 101	CS	02	.....	55
3	CS 101	CS	03	.....	60
4	CS 101	CS	04	.....	60

Admin Main Page -> Dormitory

The screenshot shows the 'Dormitory' management interface. On the left is a dark sidebar with the 'Bilkent Pandemic Manager' logo and a menu including 'Approval List', 'Find User', 'Courses', 'Dormitory', 'Risk Calculator', 'Covid-19 Reports', and 'News'. The main content area has a blue header with the title 'Dormitory'. Below the header is a table with columns: 'Dormitory No', 'Floor', 'Block', 'Room', and 'Number Of Students'. The table contains four rows of data. At the bottom of the table are three buttons: 'ADD DORMITORY' (green), 'REMOVE DORMITORY' (red), and 'UPDATE DORMITORY' (blue). The top right of the page shows a user profile for 'Mohammed Salah Admin' with a 'NO RISK' status and a search icon.

Dormitory No	Floor	Block	Room	Number Of Students
78	1	B	143	3
78	1	B	144	3
78	1	B	145	3
78	1	B	146	3

Admin Main Page -> Risk Calculator

The screenshot shows the 'Risk Calculator' interface. The sidebar is identical to the previous page. The main content area has a blue header with the title 'Risk Calculator'. Below the header is a form with two text input fields, each preceded by a question number and placeholder text. At the bottom of the form is a green 'APPLY' button. The top right of the page shows the same user profile and search icon as the previous page.

1. Question text goes here.

2. Question text goes here.

APPLY

Admin Main Page -> Covid-19 Reports

B Bilkent Pandemic Manager

Approval List

Find User

Courses

Dormitory

Risk Calculator

Covid-19 Reports

News

Covid-19 Reports

Daily Cases	Daily Death Number	Number of Tests	Number of recoveries
23096	203	344163	982

Overall Corona Report in Bilkent

Sep 15, 2021

Dormitory Corona Report in Bilkent

Sep 15, 2021

Lecture Corona Report in Bilkent

Sep 15, 2021

Mohammed Salah Admin
NO RISK

Admin Main Page -> News

B Bilkent Pandemic Manager

Approval List

Find User

Courses

Dormitory


Risk Calculator

Covid-19 Reports

News


Send Feedback

News




Craig Bator - 27 Dec 2020

Corona Cases has Increased Tremendously



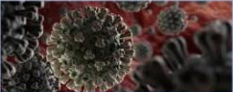
Craig Bator - 27 Dec 2020

Daily Cases



Craig Bator - 27 Dec 2020

Fahrettin Koca Announced New Decisions



Craig Bator - 27 Dec 2020

New Mutation Has Been Found

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