CSE 343 – Software Engineering

System Modelling

Assignment 2

Date:

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Author:

Gülnihal Akdem

Student Id:

1901042253

Contents

A)Stakeholders

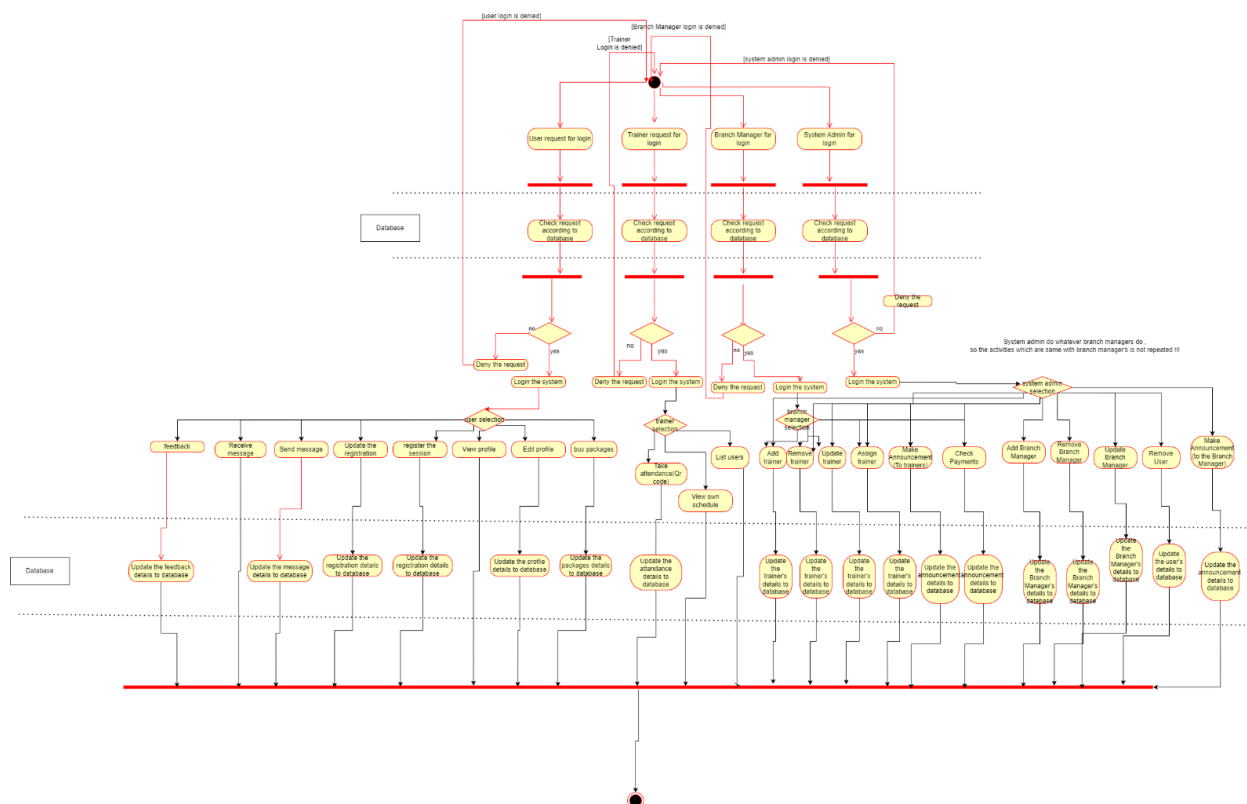System Admin: View and controlling the whole system

Branch manager: Add/Update trainers and assign trainers to the session

Users: Using the system to register/attend to sessions, Update their personal informations and so on.

Trainers : Taking the attendance,list users ,etc

B)Process Model

The General View of the Process Model

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Login

Login Branch Manager/ User/ Traner/ System Admin
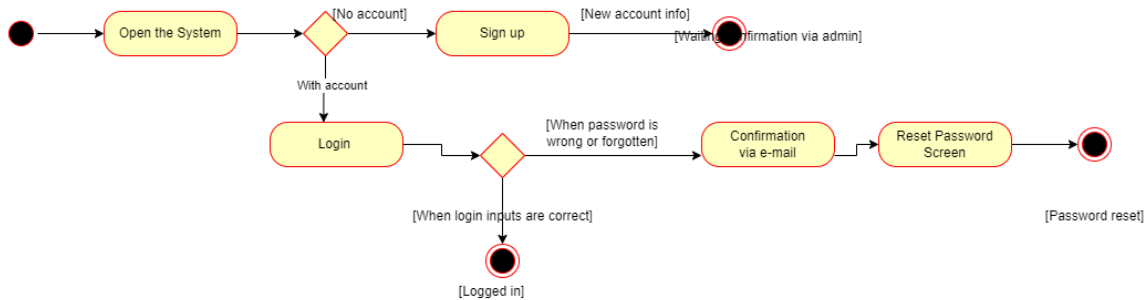
Remove Trainer

(Sytsem Admin also Remove Branch Manager and Remove User. It is goes like that just actor name is different.)

Branch Manager/ Sytem Admin Remove Trainer to the system
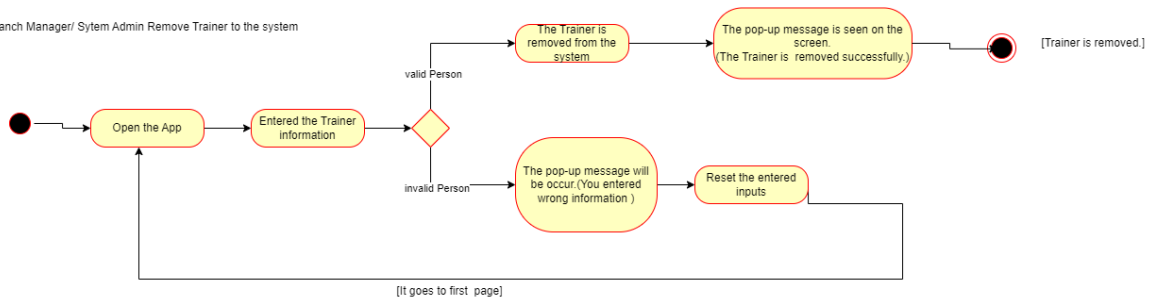
Update Trainer

(Sytem Admin also Update Branch Manager. It is goes like that just actor name is different.

Also,Trainer and User Edit Profile is is goes like. Update Register also goes like that.)

Branch Manager/ Sytem Admin Update Trainer's information in the system
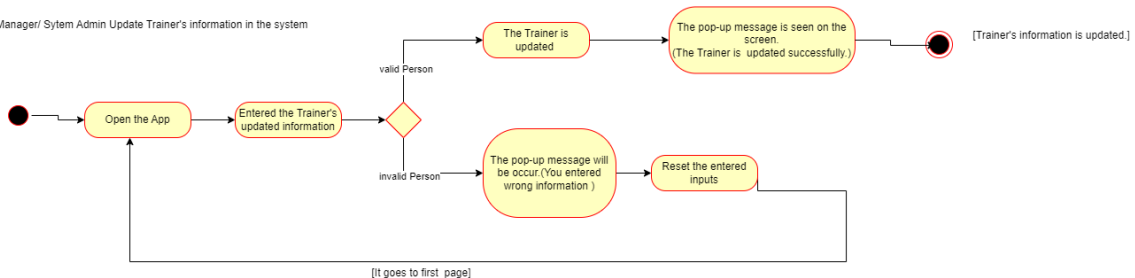
Add Trainer

(Sytem Admin also Add Branch Manager. It is goes like that just actor name is different.

Register the session for user is goes like that. Just actor name is different.)

Valid,invalid is for checking the person is dangerous or not,real person or not and so on.

Branch Manager/ Sytem Admin Add Trainer to the system
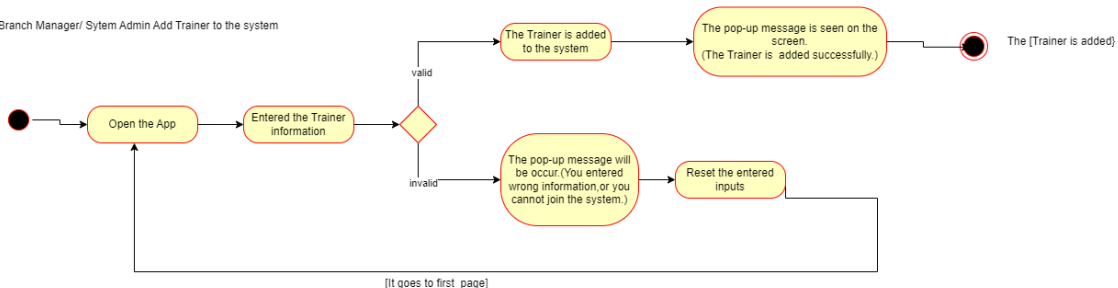
Assign Trainer

Branch Manager/ Sytem Admin Assign Trainer

valid Person

The Trainer is assigned to the session

The pop-up message is seen on the screen.
(The Trainer is assigned successfully.)

[Trainer is assigned.]

Open the App

Entered the Trainer's updated information

invalid Person

The pop-up message will be occur.(You entered wrong information)

Reset the entered inputs

[It goes to first page]
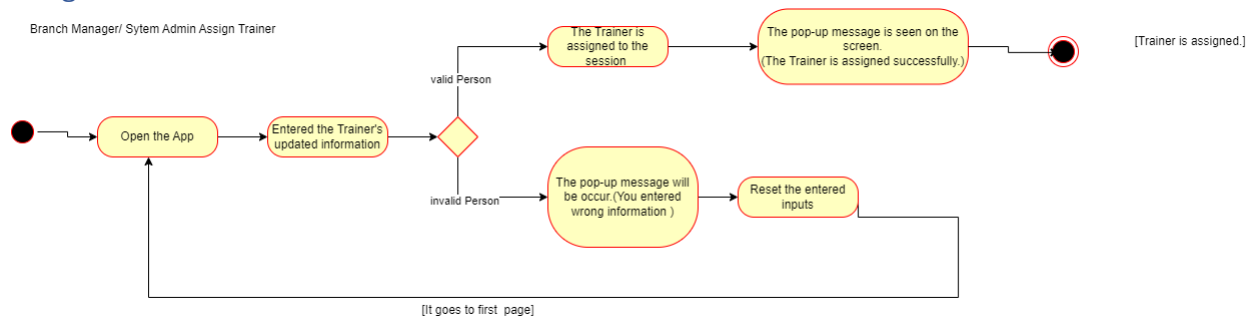
Make Announcement

Branch Manager/ Sytem Admin Make Announcement

valid

Announcement is recorded on the database.

The pop-up message is seen on the screen.

[Trainer is assigned.]

Open the App

Entered the announcement message

invalid

The pop-up message will be occur.(You entered wrong information)

Reset the entered inputs

[It goes to first page]
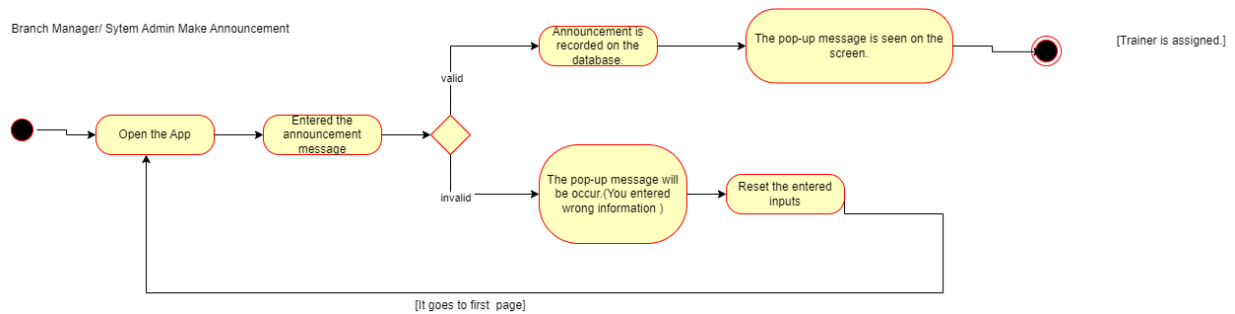
Check Payments

Branch Manager/ Sytem Admin Check Payments

Open the App

check the payment details

Listing the payments details
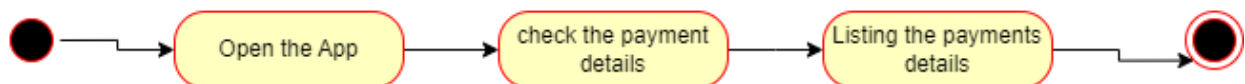
Trainer-> List User

Trainer List the User

Open the App

Go to List User Pgae

Listing the Users and their details

5
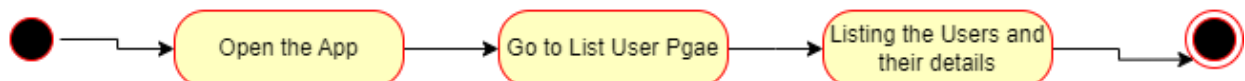
View own Schedule(Trainer/User)

Trainers or User can View own schedule

View Profile(Trainer/User)

Trainers or User can View Profile

C)Use Case Diagram
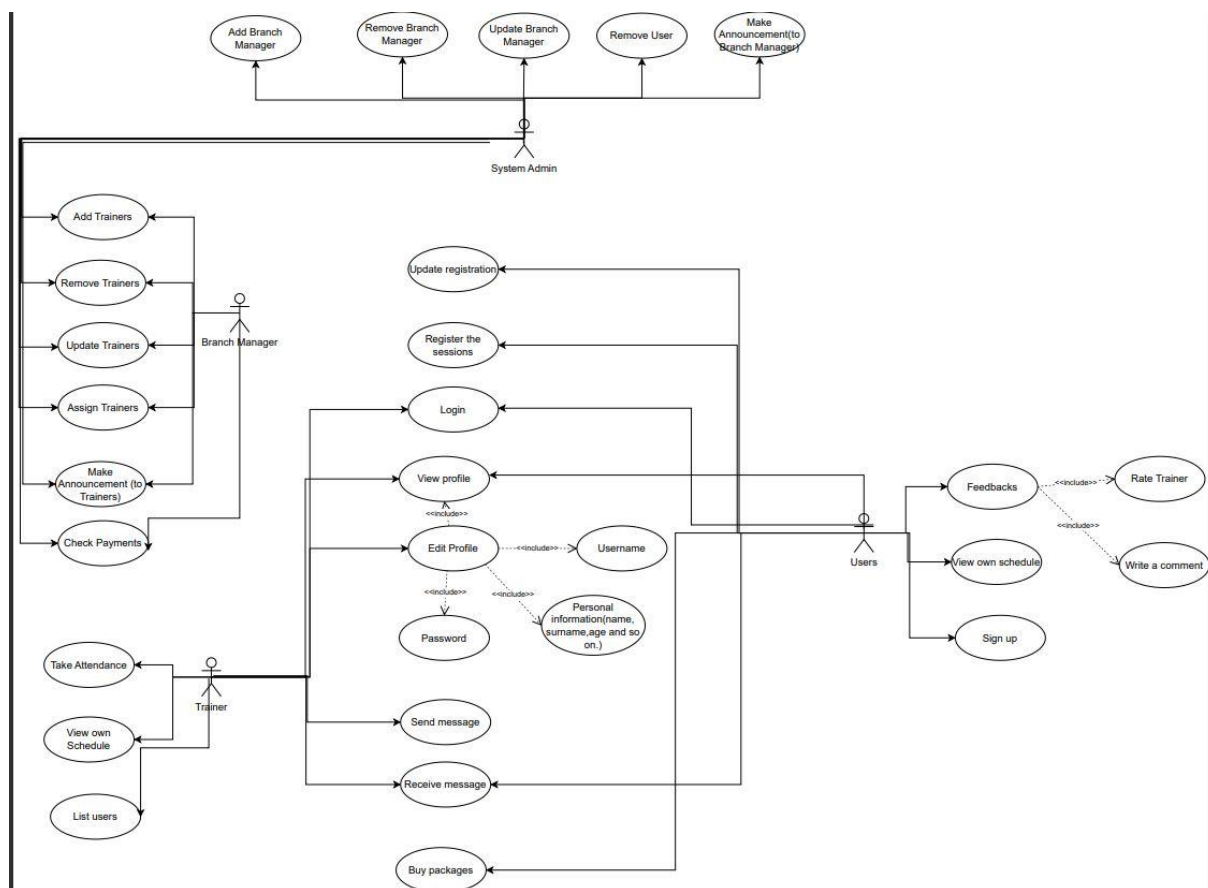
System	MinFit
Use-Case	Add Trainers
Actors	Branch Manager, System Admin
Data	Trainer info(Mail,Name,Surname,Age,Password,Gender,Address etc.)
Stimulus	Interface Interaction by the Branch Manage, System Admin r (Button Click)
Response	Save the given data to database
Comments	The data will be used at login page, viewing pages and the editing pages.

System	MinFit
Use-Case	Update Trainers
Actors	Branch Manager, System Admin
Data	Trainer info(Mail,Name,Surname,Age,Password,Gender,Address etc.)
Stimulus	Interface Interaction by the Branch Manager , System Admin (Button Click)
Response	Update the data in database
Comments	The data will be used at login page, viewing pages and the editing pages.

System	MinFit
Use-Case	Remove Trainers
Actors	Branch Manager, System Admin
Data	Trainer info(Mail,Name,Surname,Age,Password,Gender,Address etc.)
Stimulus	Interface Interaction by the Branch Manager, System Admin (Button Click)
Response	Trainer is removed from the database.
Comments	When the trainer value is not needed, then the removing operation occurs.

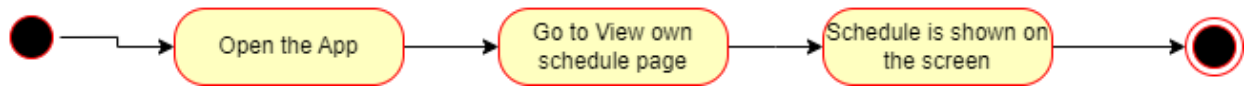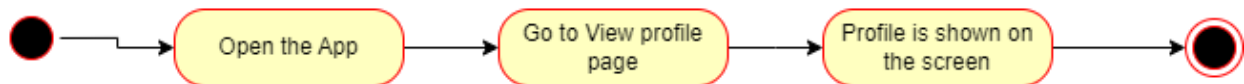|	
System	MinFit
Use-Case	Assign Trainers
Actors	Branch Manager, System Admin
Data	Trainer info(Mail,Name,Surname,Age,Password,Gender,Address etc.)
Stimulus	Interface Interaction by the Branch Manager, System Admin (Button Click)
Response	Trainer's is assigned to the Sessions.
Comments	The related trainer and his/her data is assigned to the Sessions.

System	MinFit
Use-Case	Take Attendance
Actors	Trainers
Data	Users information
Stimulus	Interface Interaction by Trainers (using QR code)
Response	The attendance result is recorded to the database.
Comments	Whenever branch manager is checked to register the User to the Sessions.

System	MinFit
Use-Case	View own schedule
Actors	Trainers, Users
Data	Trainers, Users information
Stimulus	Interface Interaction by Trainers/Users (Button Click)
Response	The data is token from the database and monitoring on the screen.
Comments	Both Trainers and users can views their Schedule on their own pages.

System	MinFit
Use-Case	Add Branch Manager
Actors	System Admin
Data	Branch Manager information
Stimulus	Interface Interaction by System Admin (Button Click)
Response	The new Branch Manager is added to the database via this case.
Comments	There is a number of branches distrubution to mant cities in Türkiye. So, There should be many branch managers.

System	MinFit
Use-Case	Remove Branch Manager
Actors	System Admin
Data	Branch Manager information
Stimulus	Interface Interaction by System Admin (Button Click)
Response	The Branch Manager's data has been removed from the database.
Comments	When the Branch Manager values are not needed, the removal operation occurs.

System	MinFit
Use-Case	Remove User
Actors	System Admin
Data	Branch Manager information
Stimulus	Interface Interaction by System Admin (Button Click)
Response	The Branch Manager's data has been updated in the database.
Comments	When the trainer value is not needed, then the removing operation occurs.

System	MinFit
Use-Case	Update Branch Manager
Actors	System Admin
Data	Branch Manager information
Stimulus	Interface Interaction by System Admin (Button Click)
Response	The Branch Manager's data has been updated in the database.
Comments	

System	MinFit
Use-Case	Update registration
Actors	User
Data	User information
Stimulus	Interface Interaction by Branch Manager (Button Click)
Response	The User's registration data has been updated in the database.
Comments	Branch manager can update a user's planned registration if tehre is an available session within the same week. However,if a user is already registrated for any sessions(2/3 sessions they can attend), they cannot move the registration to following weeks unless confirmedby the branch managers.

System	MinFit
Use-Case	Register the sessions
Actors	User
Data	User information
Stimulus	Interface Interaction by User (Button Click)
Response	The User's registration data has been recorded to the database.
Comments	Branch manager can update a user's planned registration if there is an available session within the same week. However,if a user is already registrated for any sessions(2/3 sessions they can attend), they cannot move the registration to following weeks unless confirmed by the branch managers.

System	MinFit
Use-Case	Login
Actors	Trainers, Users
Data	User or Trainer information
Stimulus	Interface Interaction by Users,Trainers (Button Click)
Response	Compare the login data with the data on the database. Based on the result, either accept or decline the login.
Comments	

System	MinFit
Use-Case	View Profile
Actors	Trainers, Users
Data	User or Trainer information
Stimulus	Interface Interaction by Users,Trainers (Button Click)
Response	Details are listed.
Comments	Whoever views his/her own profile

System	MinFit
Use-Case	Edit Profile
Actors	Trainers, Users
Data	User or Trainers information
Stimulus	Interface Interaction by Users,Trainers (Button Click)
Response	Regulation is occured on the data.
Comments	When trainer clicked teh button , He can change his profile.It is same also for users.

System	MinFit
Use-Case	Send Message
Actors	Trainers, Users
Data	User or Trainer information
Stimulus	Interface Interaction by Users,Trainers (Button Click)
Response	The message are stored on the database.
Comments	Trainers and Users can send messages

System	MinFit
Use-Case	Receive Messages
Actors	Trainers, Users
Data	User or Trainer information
Stimulus	Interface Interaction by Users,Trainers (Button Click)
Response	The receive message are stored on the database and seen by the related person.
Comments	Trainers and Users can receivde messages.

System	MinFit
Use-Case	Feedback
Actors	Users
Data	User information
Stimulus	Interface Interaction by Users (Button Click)
Response	User give feedbacks and this data stored on the dataabse
Comments	User write comments or rate the trainer via this case.

System	MinFit
Use-Case	Sign Up
Actors	Users
Data	User information
Stimulus	Interface Interaction by Users (Button Click)
Response	The user sign up and the new data are added to the database.
Comments	

System	MinFit
Use-Case	Make Announcement
Actors	System Admin, Branch Manager
Data	Branch Manager, Trainer's informaiton
Stimulus	Interface Interaction by System Admin , Branch Manager (Button Click)
Response	The announcement message will be rocerded to the database.
Comments	System admin make announcement to Branch manager, Branch manager make announcement to trainers.

System	MinFit
Use-Case	Check Payments
Actors	System Admin,Branch Manager
Data	Payment details
Stimulus	Interface Interaction by System Admin,Branch Manager (Button Click)
Response	The payment details are displayed on the screen.
Comments	

System	MinFit
Use-Case	List Users
Actors	Trainer
Data	User information
Stimulus	Interface Interaction by Trainer (Button Click)
Response	The users information are displayed on the screen.
Comments	

System	MinFit
Use-Case	Buy Packages
Actors	Users
Data	Session information (cost, date...)
Stimulus	Interface Interaction by Users (Button Click)
Response	The session packages are displayed on the screen.
Comments	When user want to buy session, this use case will be activated

D)Sequence Diagram

Check Payment
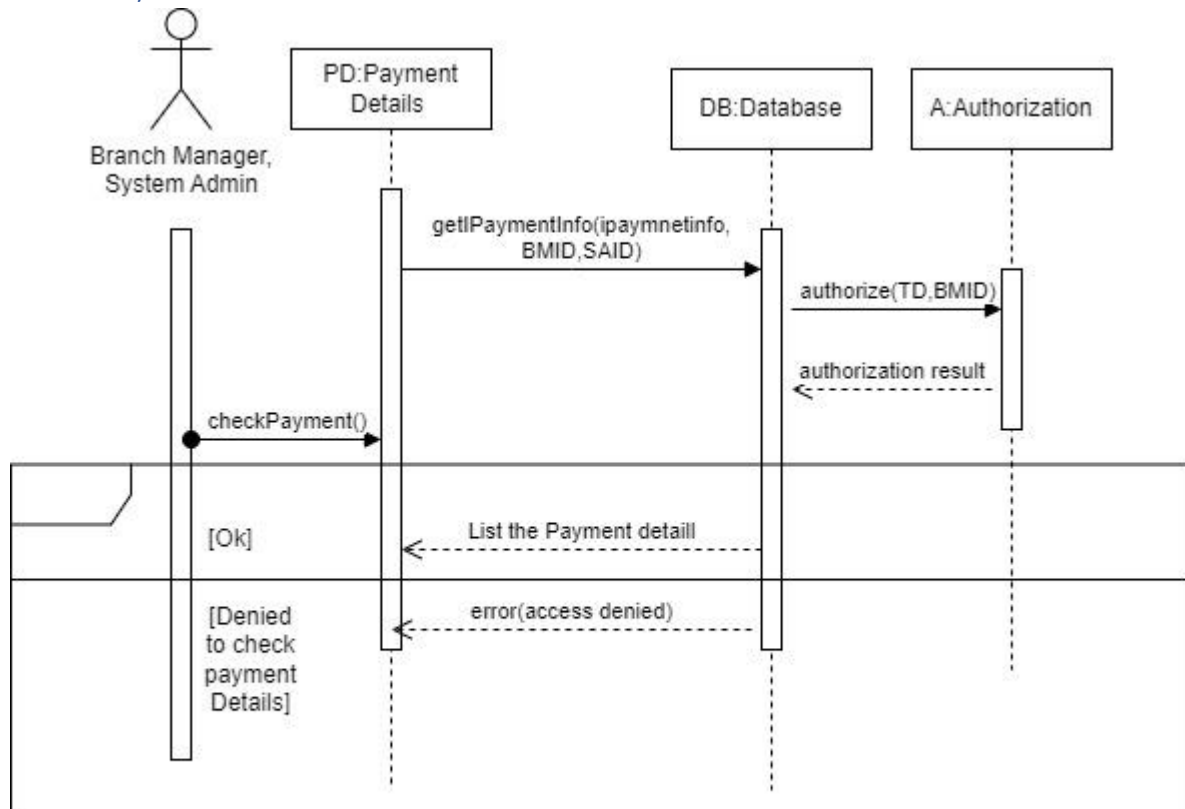
BMID: Branch Manager ID
SAID:System Admin ID

Move Registaration

Add Trainer

BMID: Branch Manager ID

E)Class Diagram

System Admin

Admin_email(username) : string
password : string
systemAdmin_ID
branchManagerID
trainerId
etc.

addBranchManager(branchManagerID)
removeBranchManager(branchManagerID)
updateBranchManager(branchManagerID)
removeUser(userInfo)
makeAnnouncement(branchManagerID)

addTrainer(trainerId)
removeTrianer(trainerId)
updateTrainer(trainerId)
assignTrainer(trainerId)
makeAnnouncement(trainerId)
checkPayments(paymentID)

Classname

messageId : int
message : string

Branch Manager

branchManagerId : int
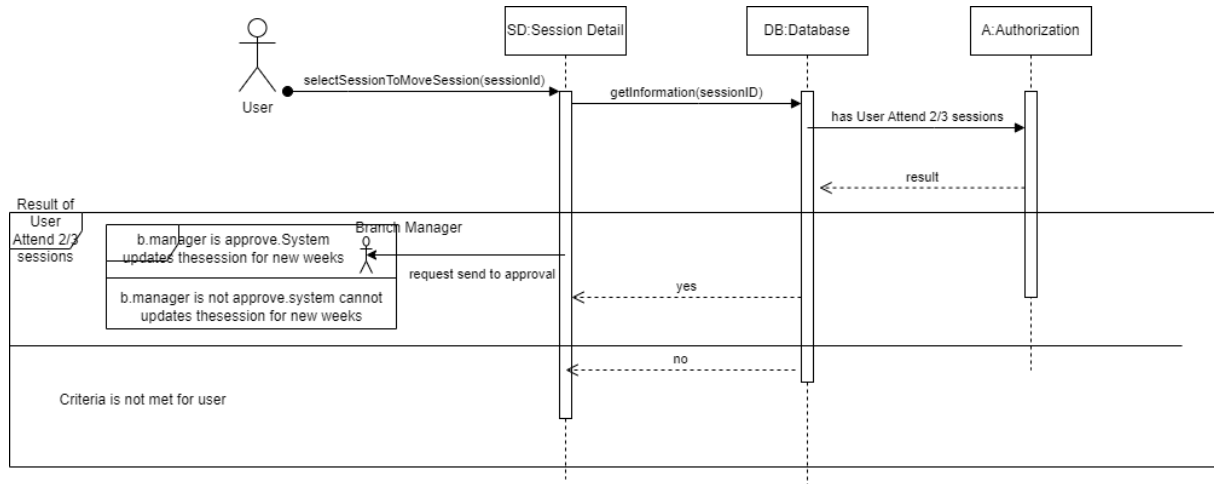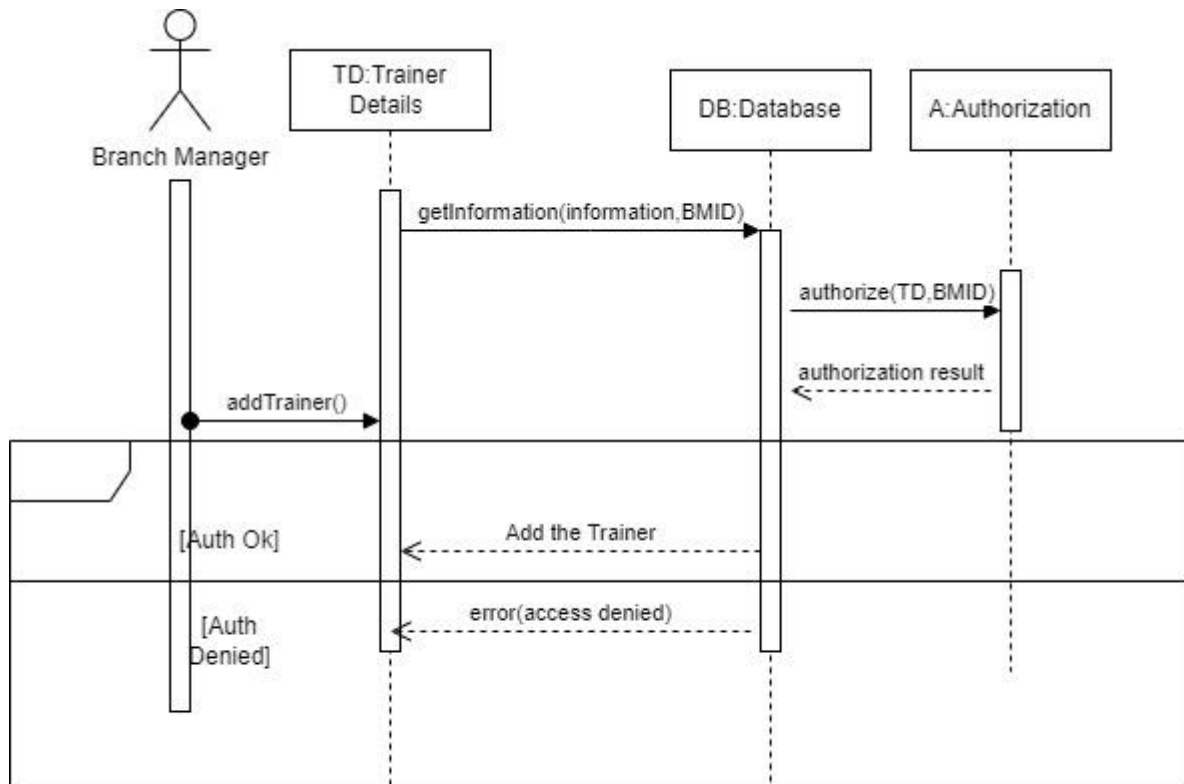branch_manager_name : string
branch_manager_surname : string
branch_manager_birthdate: date
trainerId : int
etc.

addTrainer(trainerId)
removeTrianer(trainerId)
updateTrainer(trainerId)
assignTrainer(trainerId)
makeAnnouncement(trainerId)
checkPayments(paymentID)

Sessions

sessionId : int
session_name : string
session_cost : int
trainerId : int

etc.

User

userId(username) : int
user_name : string
user_surname : string
user_birthdate : date
user_password : string
etc.

login(userId)
signUp()
updateRegistration(sessionID,userId)
registerToSession(sessionID,userID)
viewProfile(userId)
editProfile(userId)
sendMessage(trainerId)
receiveMessage(trainerId)
buyPackages(sessionId,userId)

Attandance Record

trainerId : string
userId : string
sessionId: string

QRcodeUses() : string

Trainer

trainerID (username): int
trainer_name : string
trainer_surname : string
trainer_birthdate : date
trainer_password : string
trainer_email : string
etc.

takeAttendance(sessionId)
listUser(userId)
viewOwnSchedule(trainerId)

login(trainerId)
updateRegistration(sessionID,trainerId)
registerToSession(sessionID,trainerID)
viewProfile(trainerId)
editProfile(trainerId)
sendMessage(userId)
receiveMessage(userId)

payment

paymentId : int
session_id : int
userId: int
cost : int
paid_date : date

Announcement

announementId : int
announcement_message : string

many

many

many

many

many

1

1

1