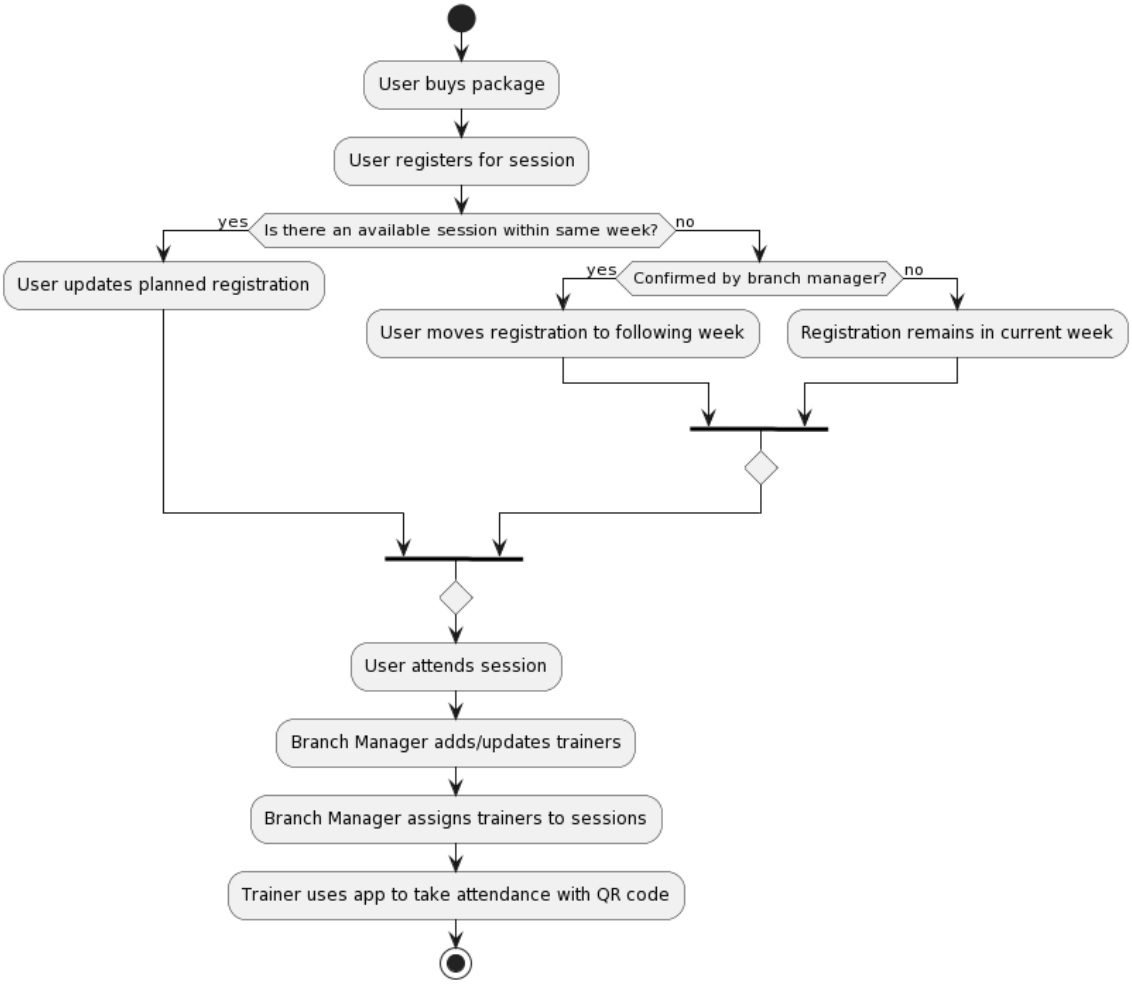
CSE 343 SOFTWARE ENGINEERING

HW2

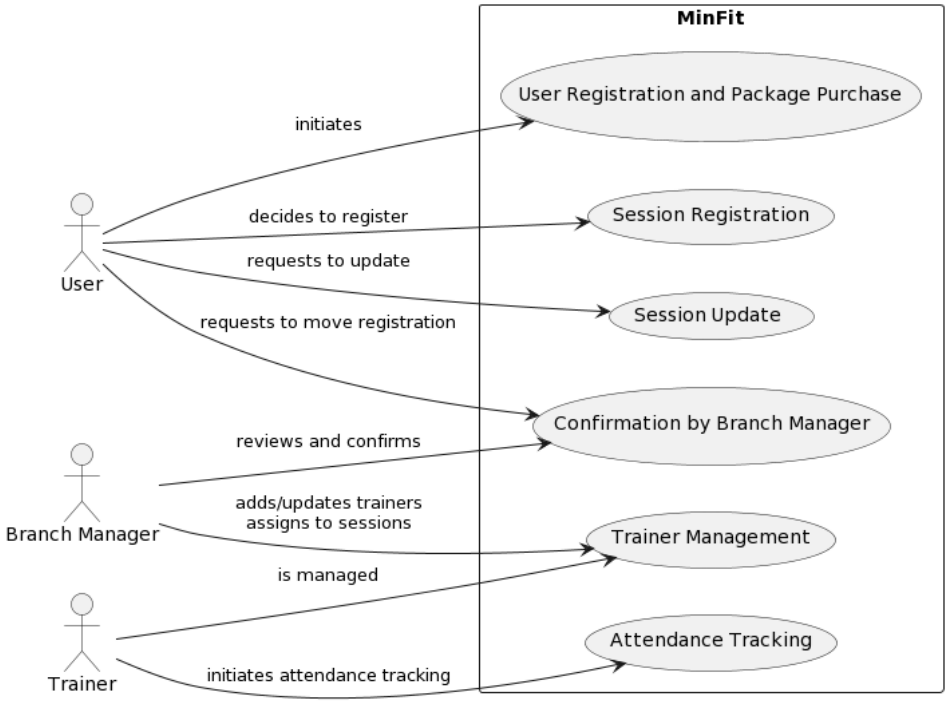
BARIŞ BATUHAN BOLAT

210104004029

a. Process Model



b. Use Case Diagram



Use Cases

System	MinFit
Use Case	User Registration and Package Purchase
Actors	User, MinFit System
Data	User details, Package details, Credits, Bonuses
Stimulus	User initiates the registration or package purchase process
Response	User information stored, credits and bonuses updated, confirmation sent to the user
Comments	This use case involves the initial interaction of a user with the system, registering for the first time and purchasing packages.

System	MinFit
Use Case	Session Registration
Actors	User, MinFit System
Data	User details, Session details, Available slots
Stimulus	User decides to register for a session
Response	User registered for the session, available slots updated
Comments	Users can register for sessions through both web and mobile applications.

System	MinFit
Use Case	Session Update
Actors	User, MinFit System
Data	User details, Session details, Available slots
Stimulus	User requests to update their planned registration
Response	System checks availability, updates registration if there is a slot, notifies user
Comments	Users can update their planned registration only within the same week.

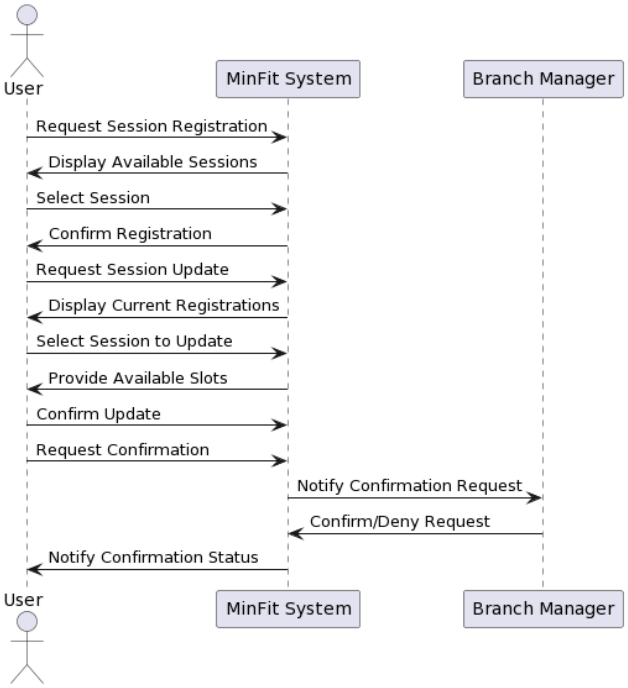
System	MinFit
Use Case	Confirmation by Branch Manager
Actors	Branch Manager, MinFit System
Data	Session details, User details
Stimulus	User requests to move registration to the following week
Response	Branch manager reviews and confirms the request
Comments	Confirmation is required from branch managers for moving registrations to the following weeks.

System	MinFit
Use Case	Trainer Management
Actors	Branch Manager, Trainer, MinFit System
Data	Trainer details, Session details
Stimulus	Branch manager adds or updates trainers, assigns trainers to sessions
Response	Trainer information updated, assignments recorded
Comments	Branch managers can manage trainers and their assignments through the system.

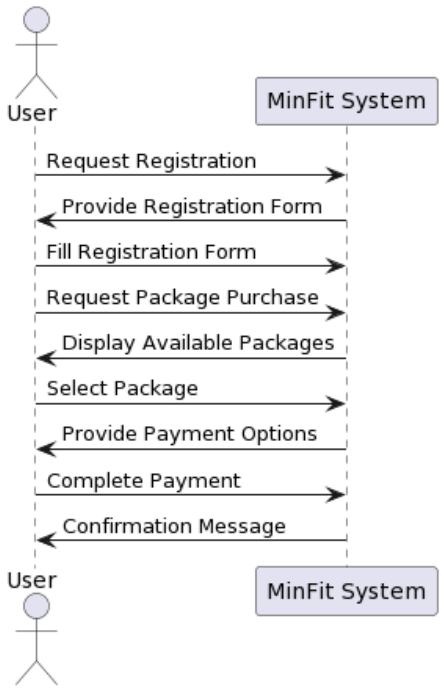
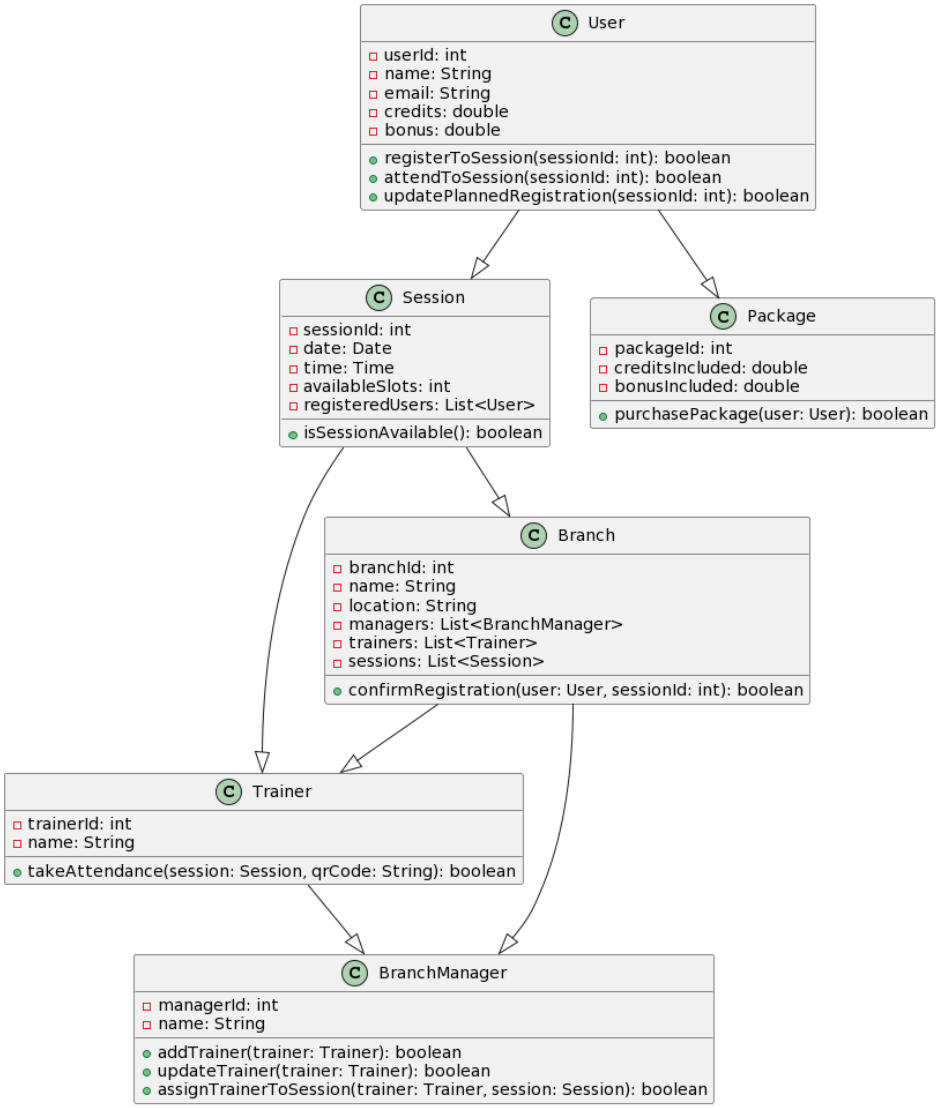
System	MinFit
Use Case	Attendance Tracking
Actors	Trainer, MinFit System
Data	Session details, User attendance
Stimulus	Trainer initiates attendance tracking using a session QR code
Response	Attendance recorded, system updates user participation status
Comments	Trainers can efficiently take attendance using the mobile app and QR codes.

c. Sequence diagrams

Session Registration and Update



User Registration and Package Purchase



d. Class Diagrams