

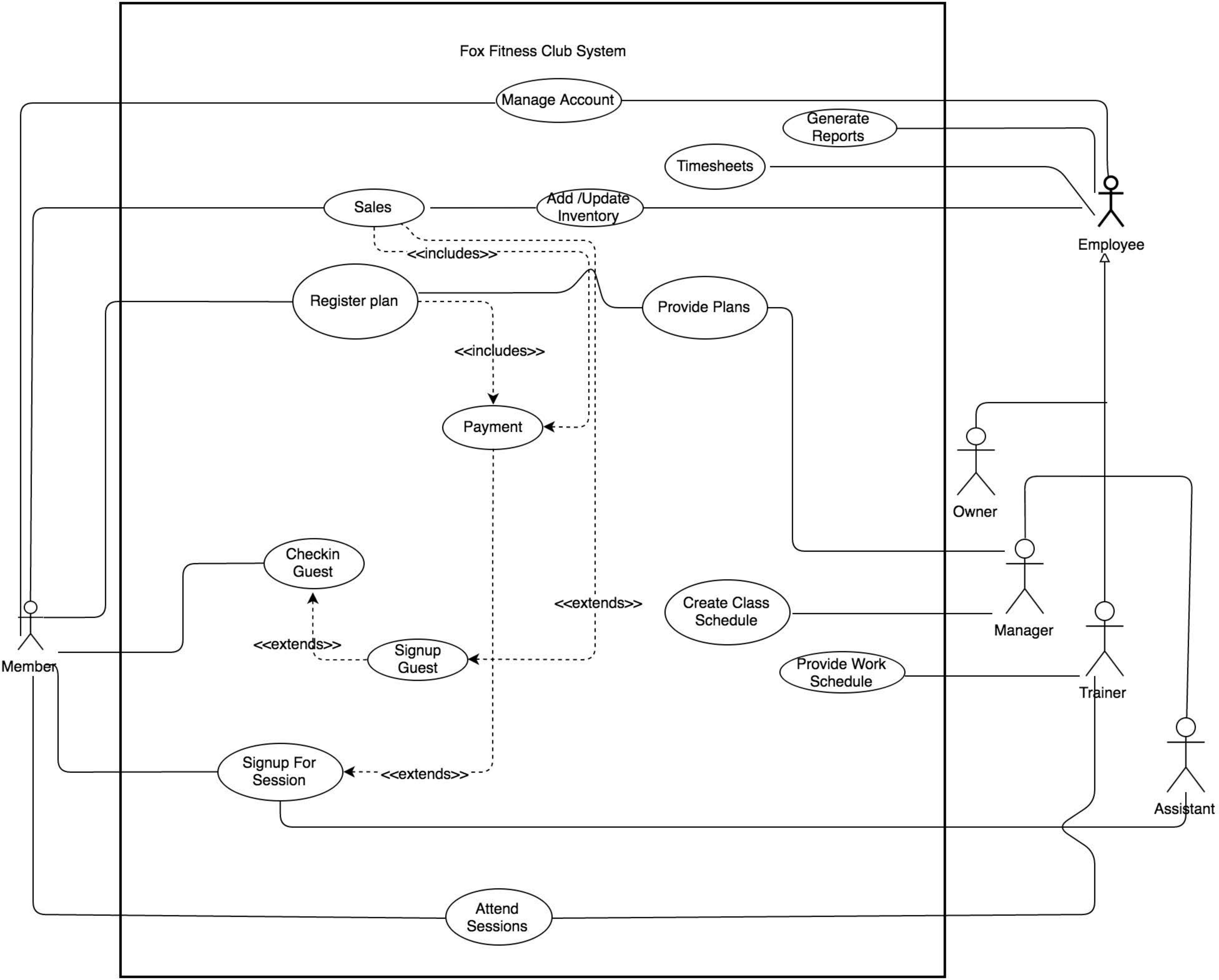
Fox Fitness Club Case study

Assignment_3_Group_5

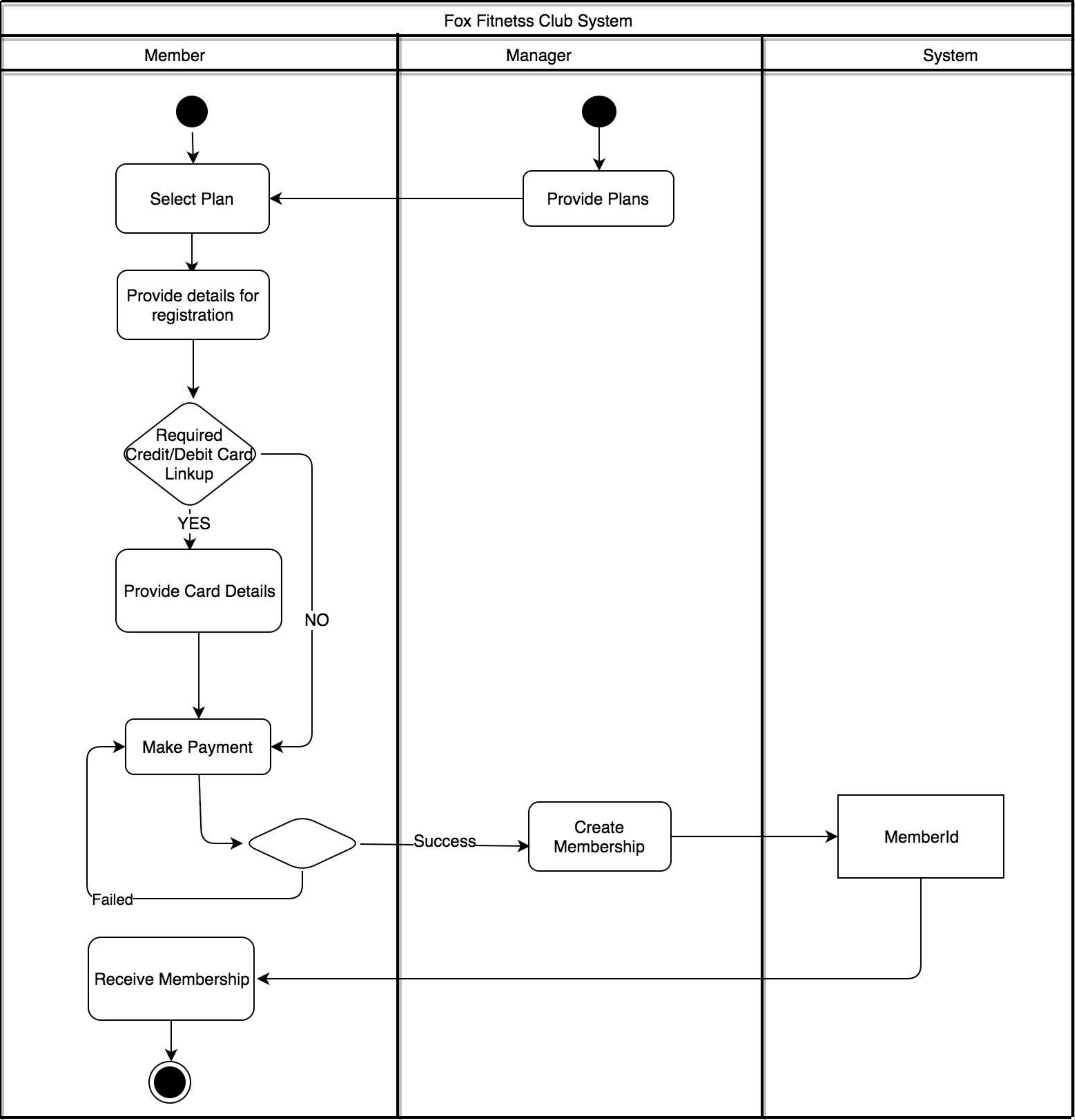
Systems Design
Fox Fitness Club Case Study
Assignment_1

Group5

Dheeraj Kumar Karnati.
ManVikas Reddy Emani
Saji Thomas
Gnapika Reddy Kudumula
Bhargavi Punjari



Member Registration



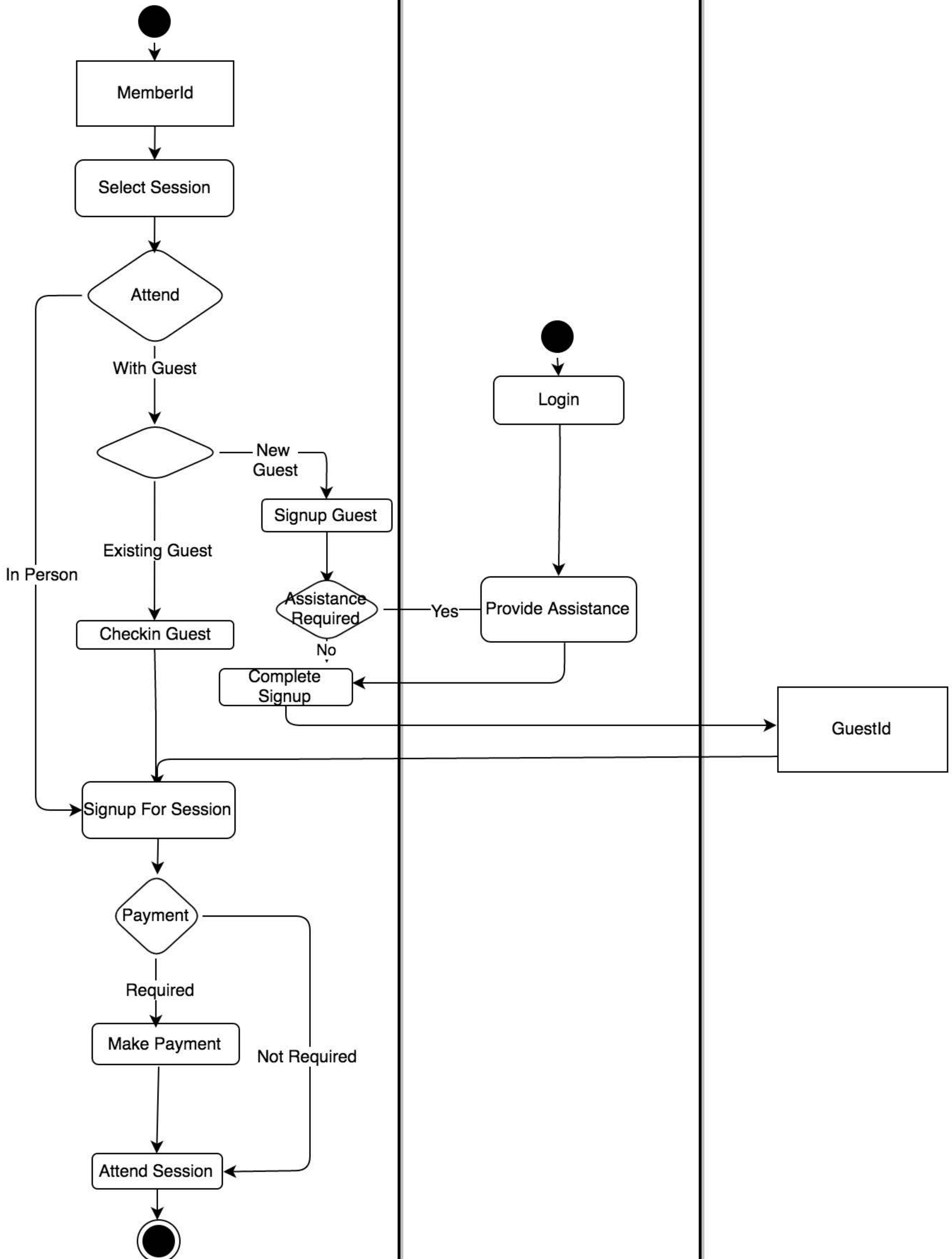
Checkin and Signup For Session

Fox Fitness Club System

Member

Assistant

System

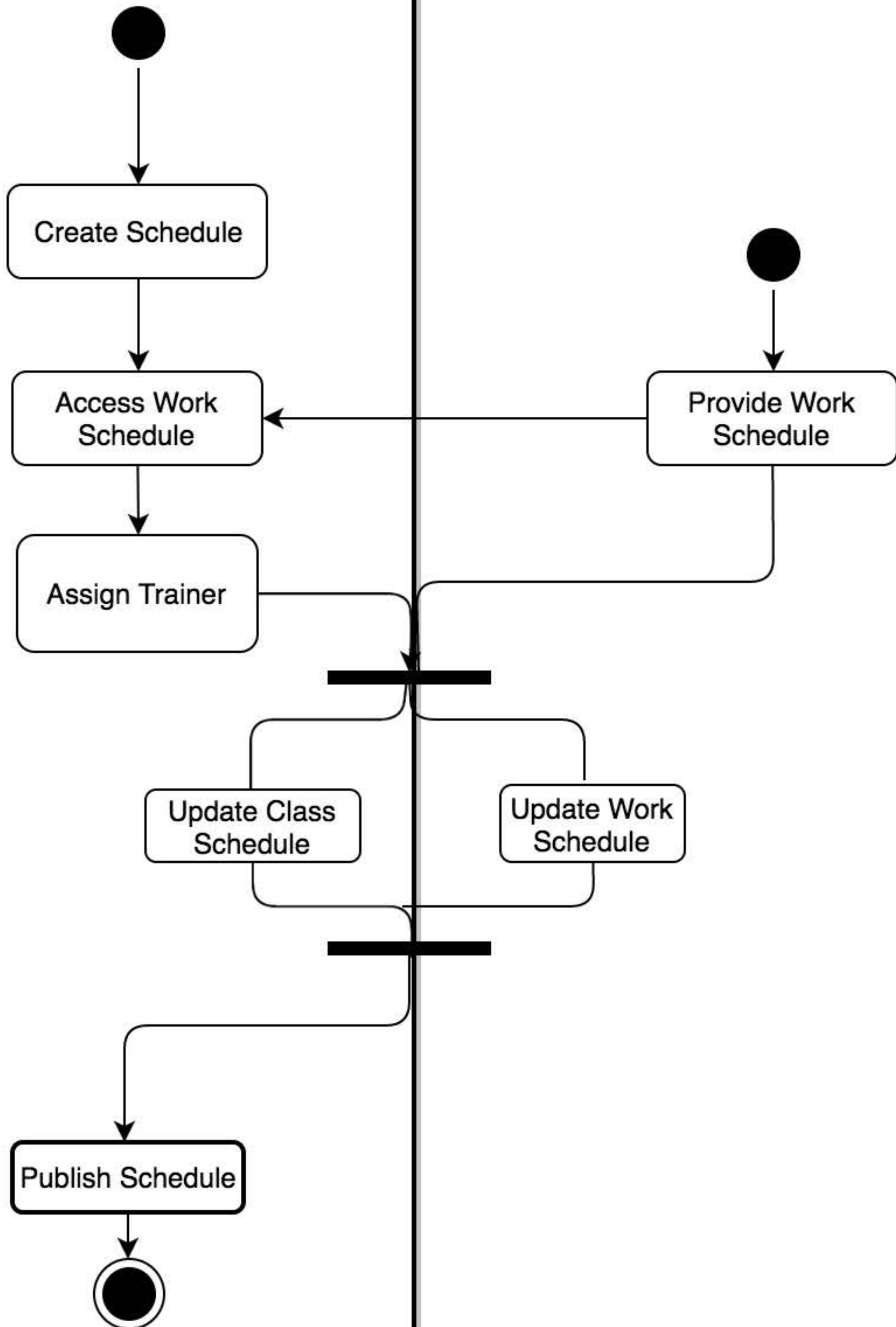


Create & Update Schedule

Fox Fitnetss Club System

Manager

Trainer

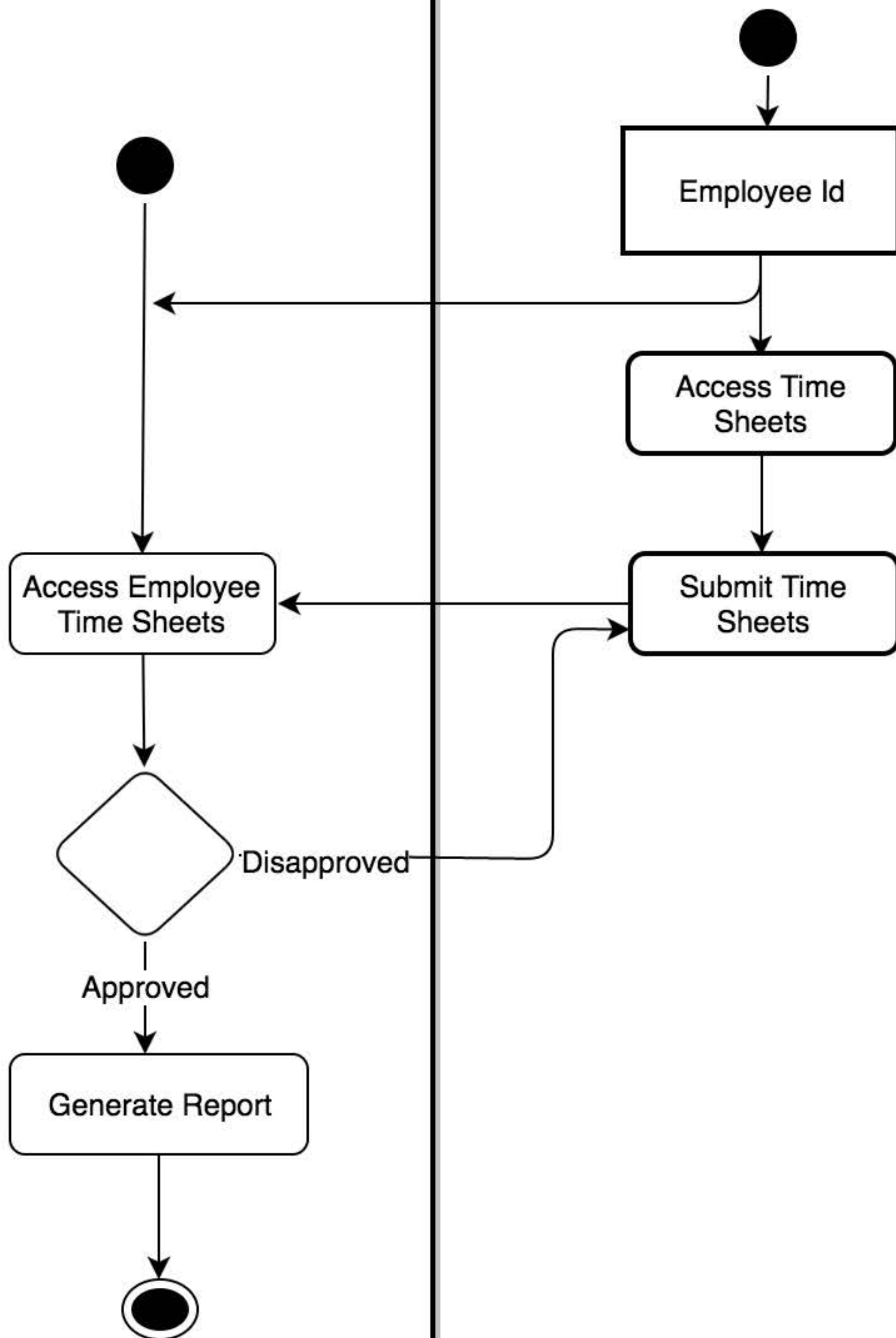


Employee TimeSheets

Fox Fitnetss Club System

Manager

Trainer/Assistant



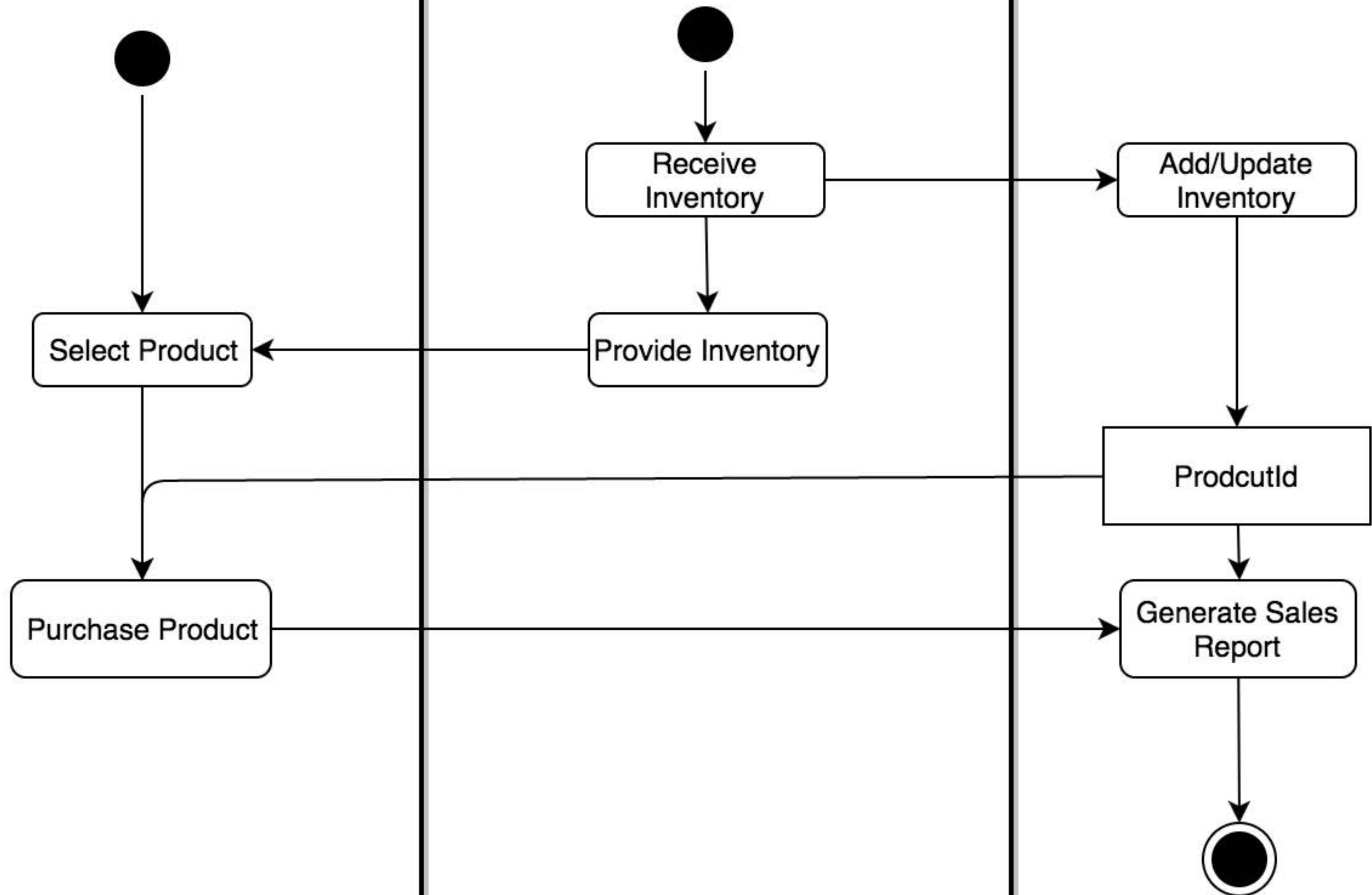
Inventory

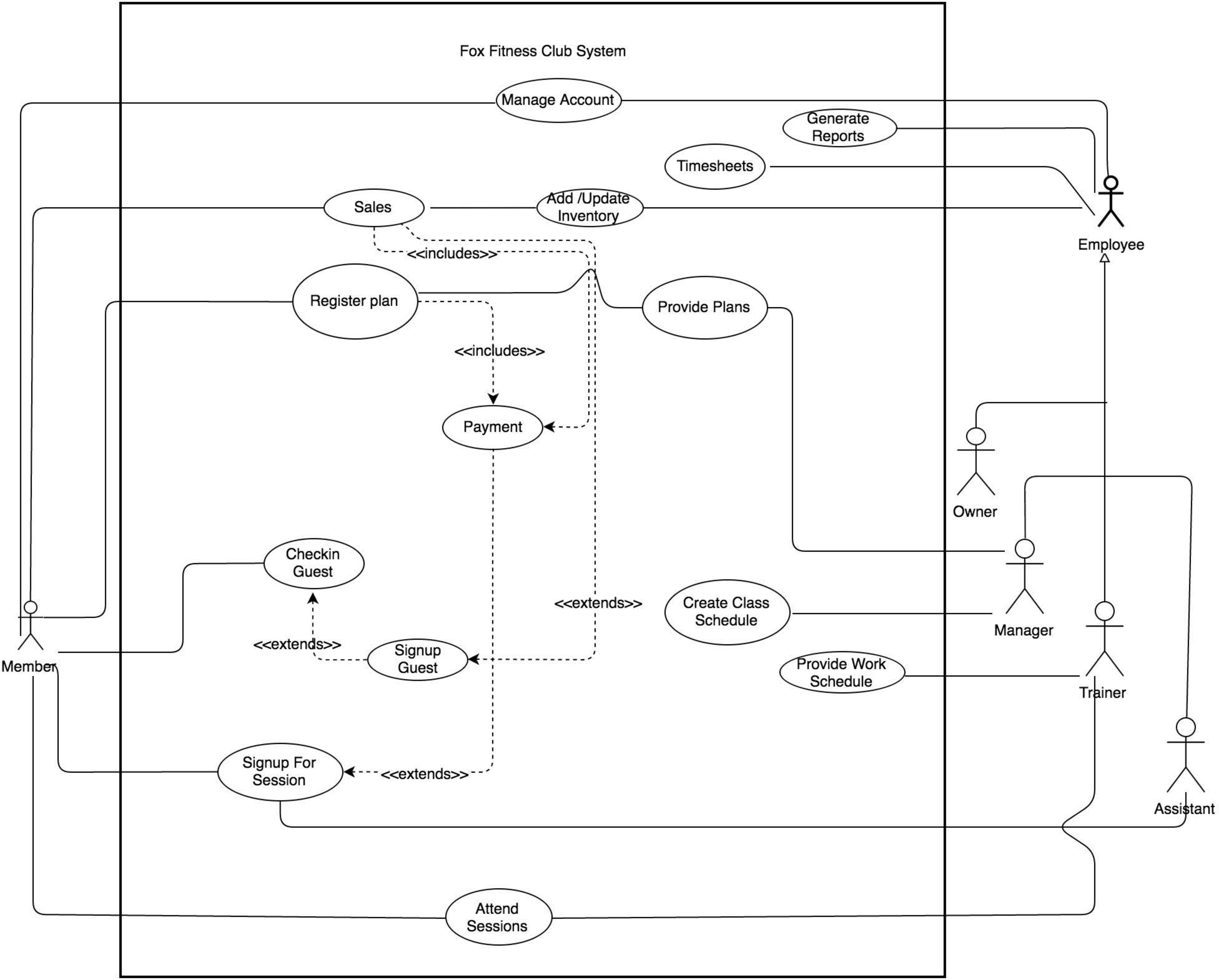
Fox Fitnetss Club System

Member

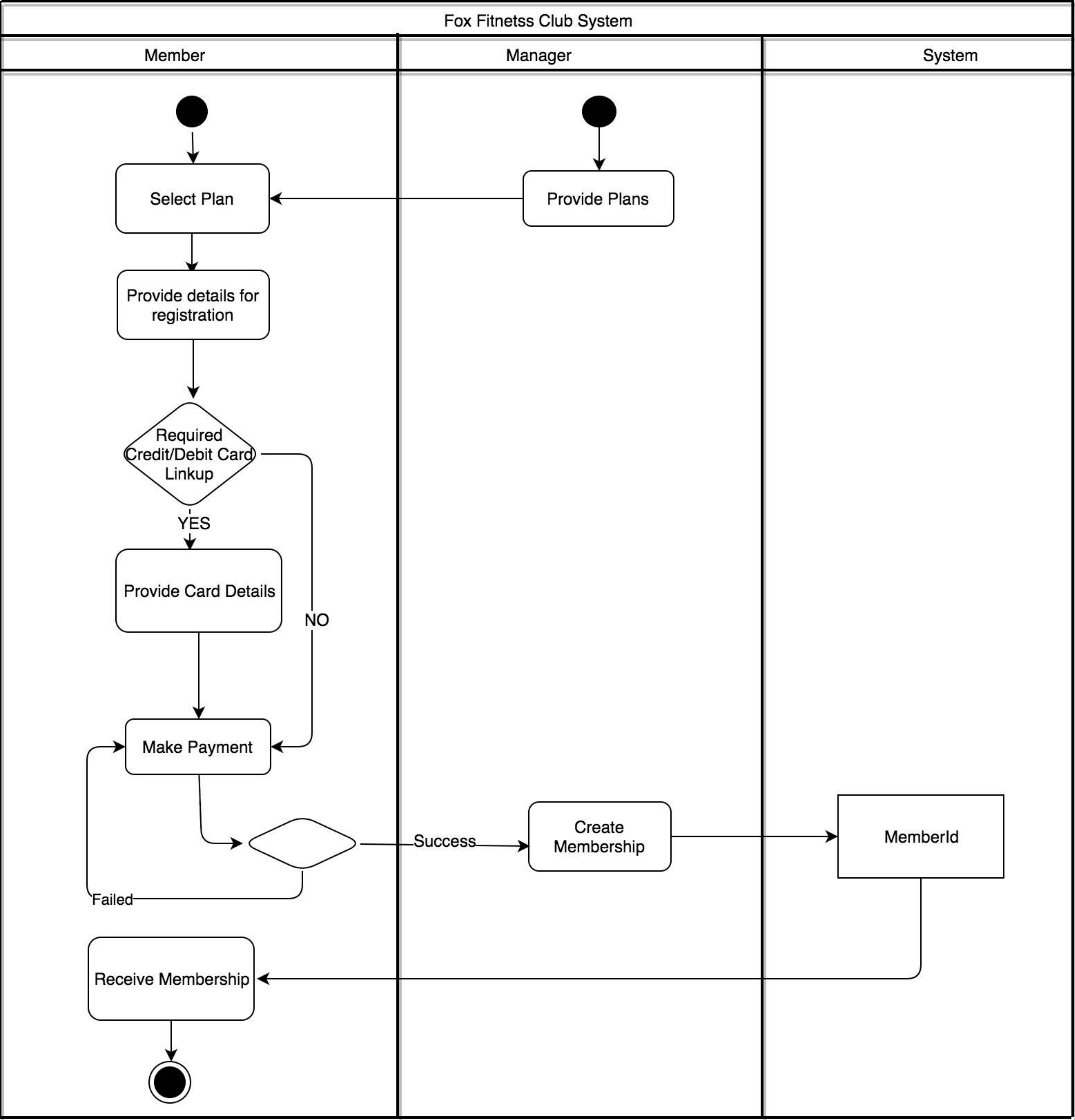
Manager

Assistant

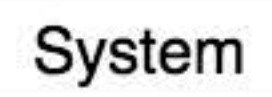




Member Registration



Fox Fitness Club System

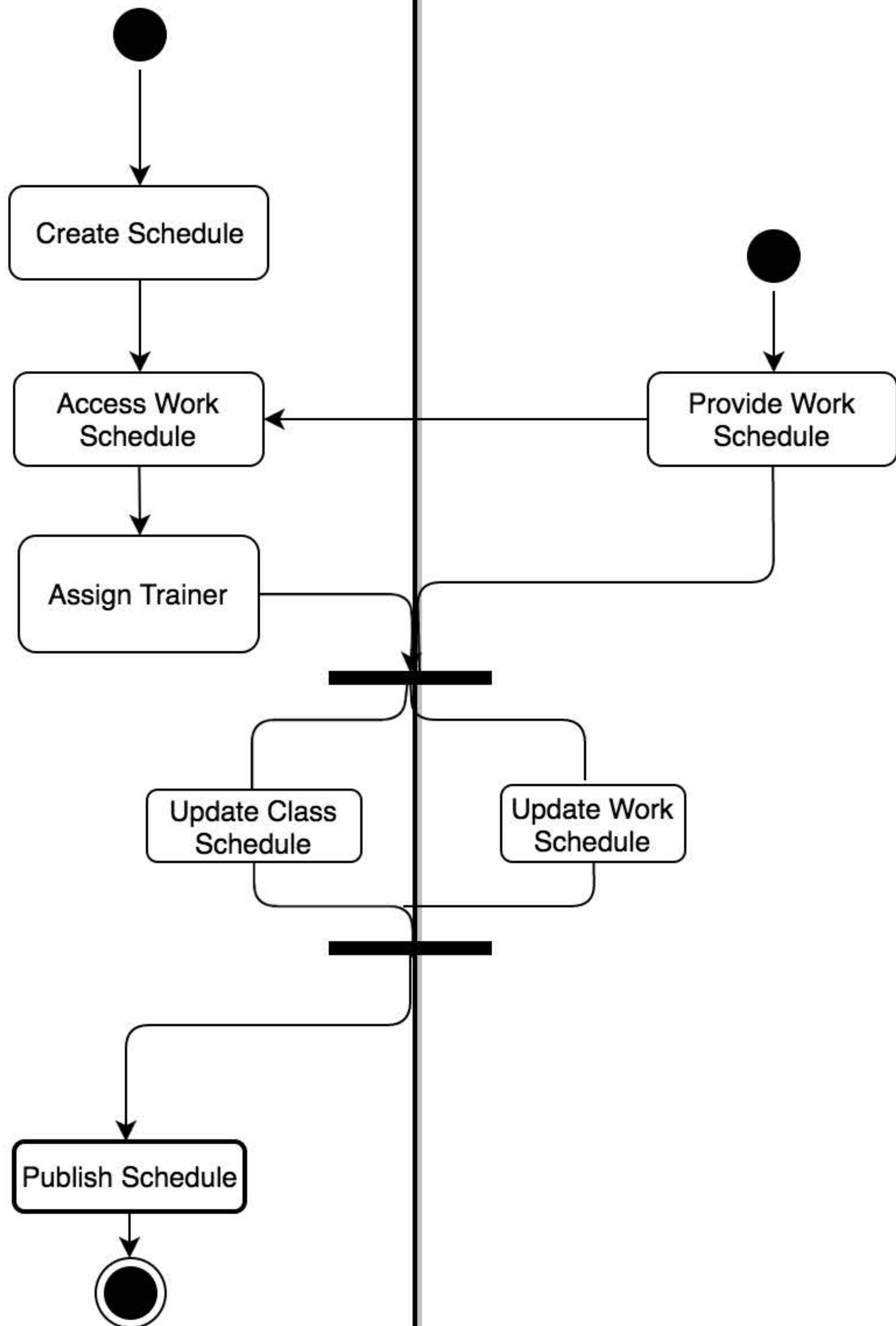


Create & Update Schedule

Fox Fitnetss Club System

Manager

Trainer

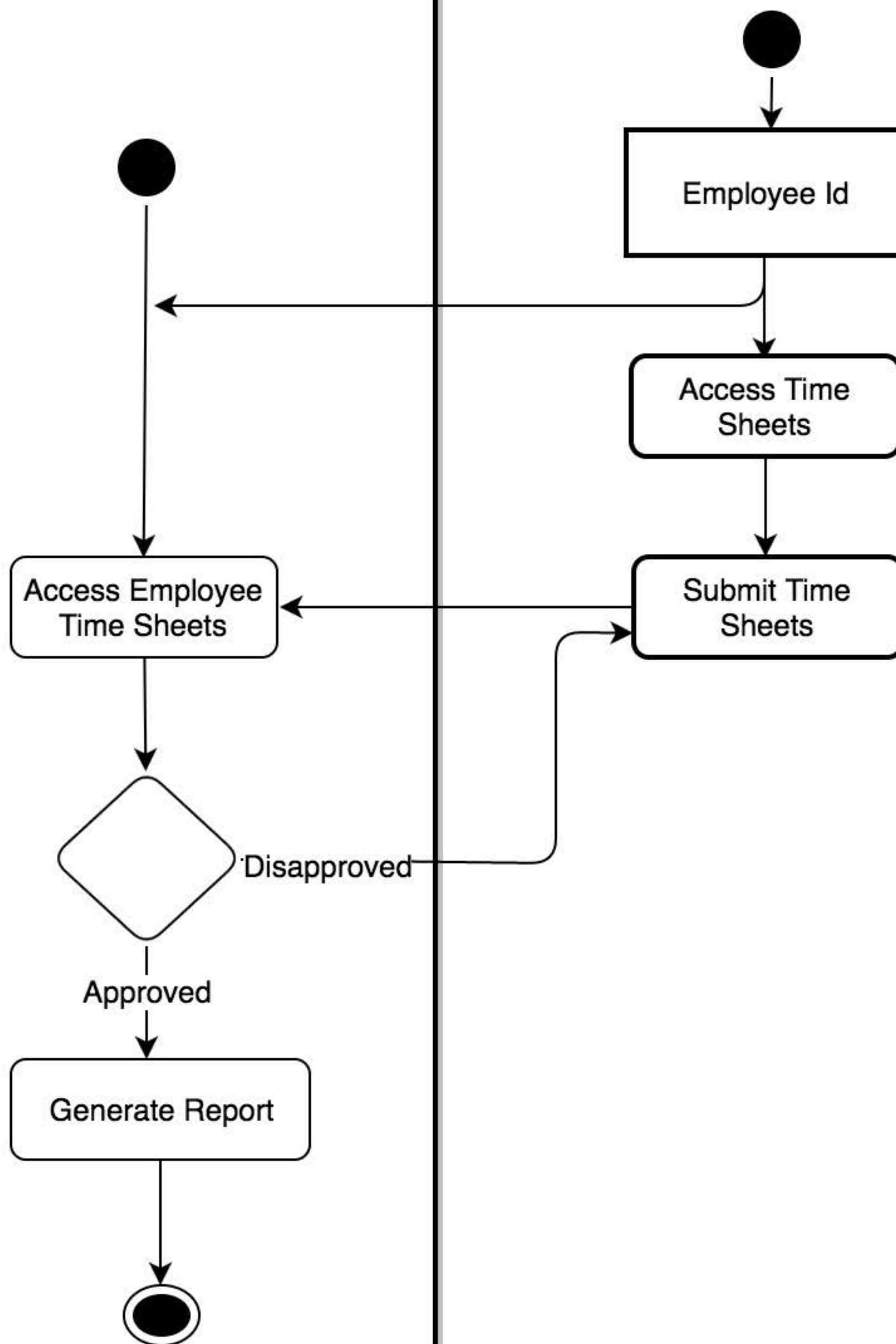


Employee TimeSheets

Fox Fitnetss Club System

Manager

Trainer/Assistant



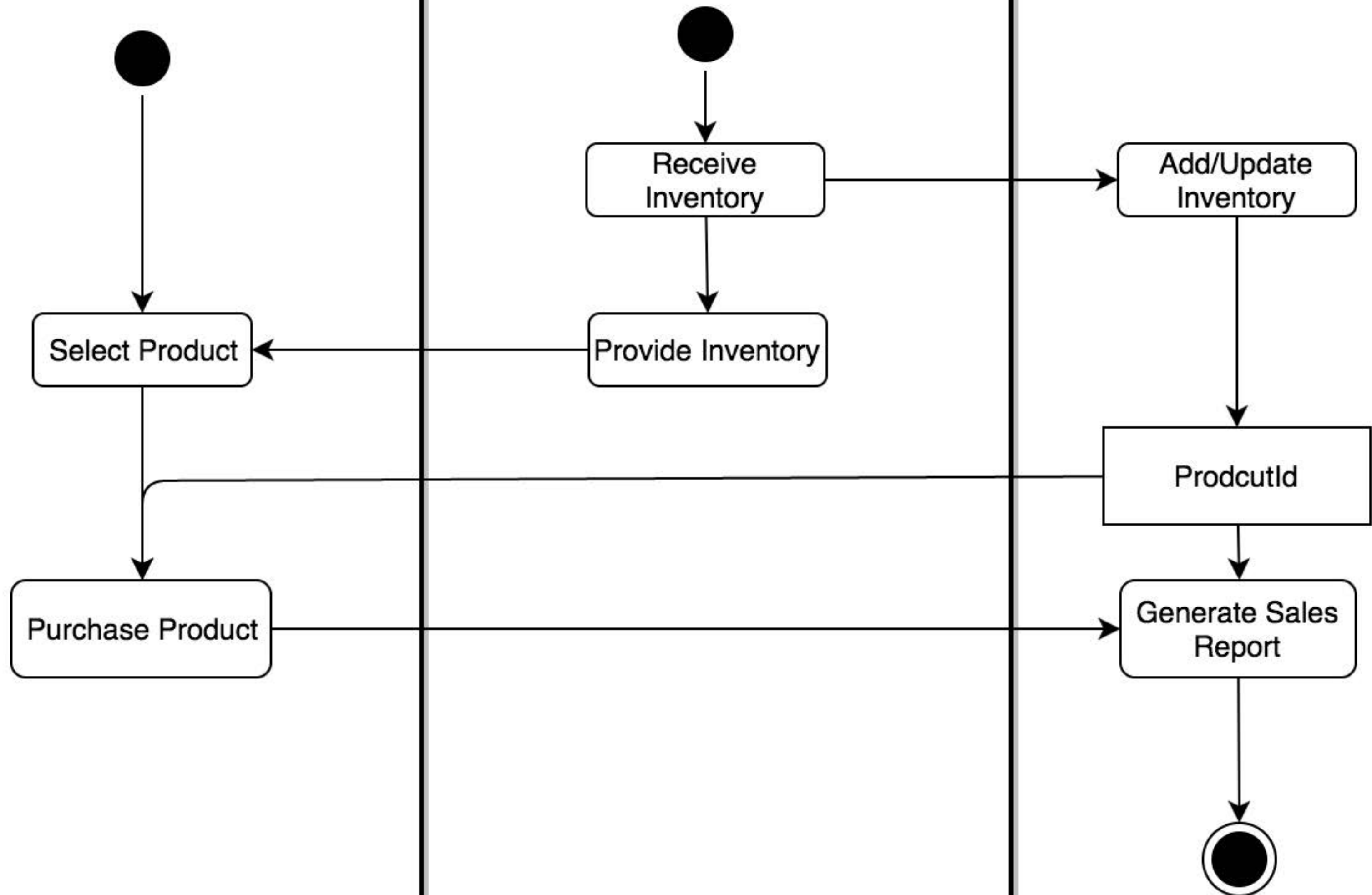
Inventory

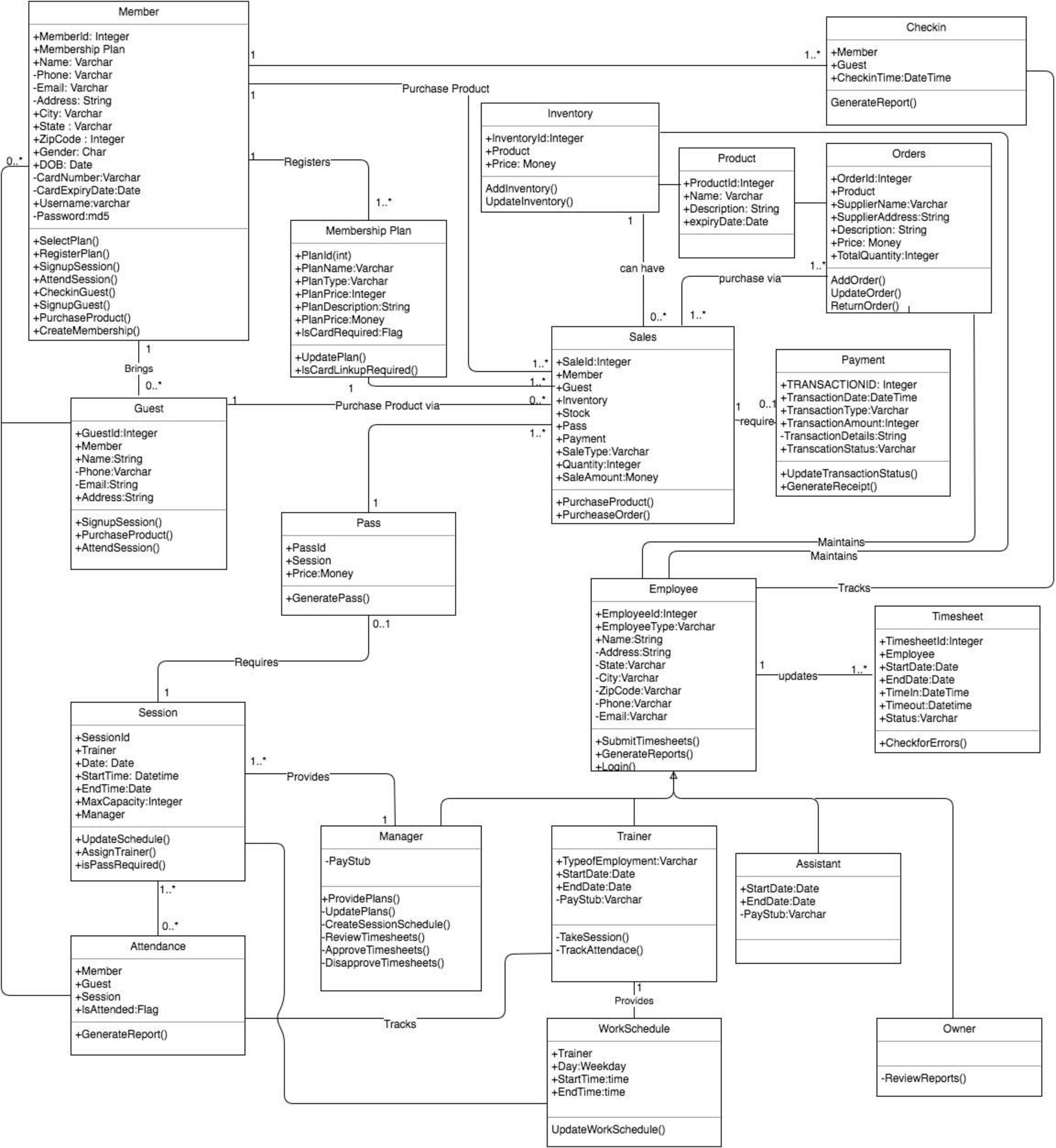
Fox Fitnetss Club System

Member

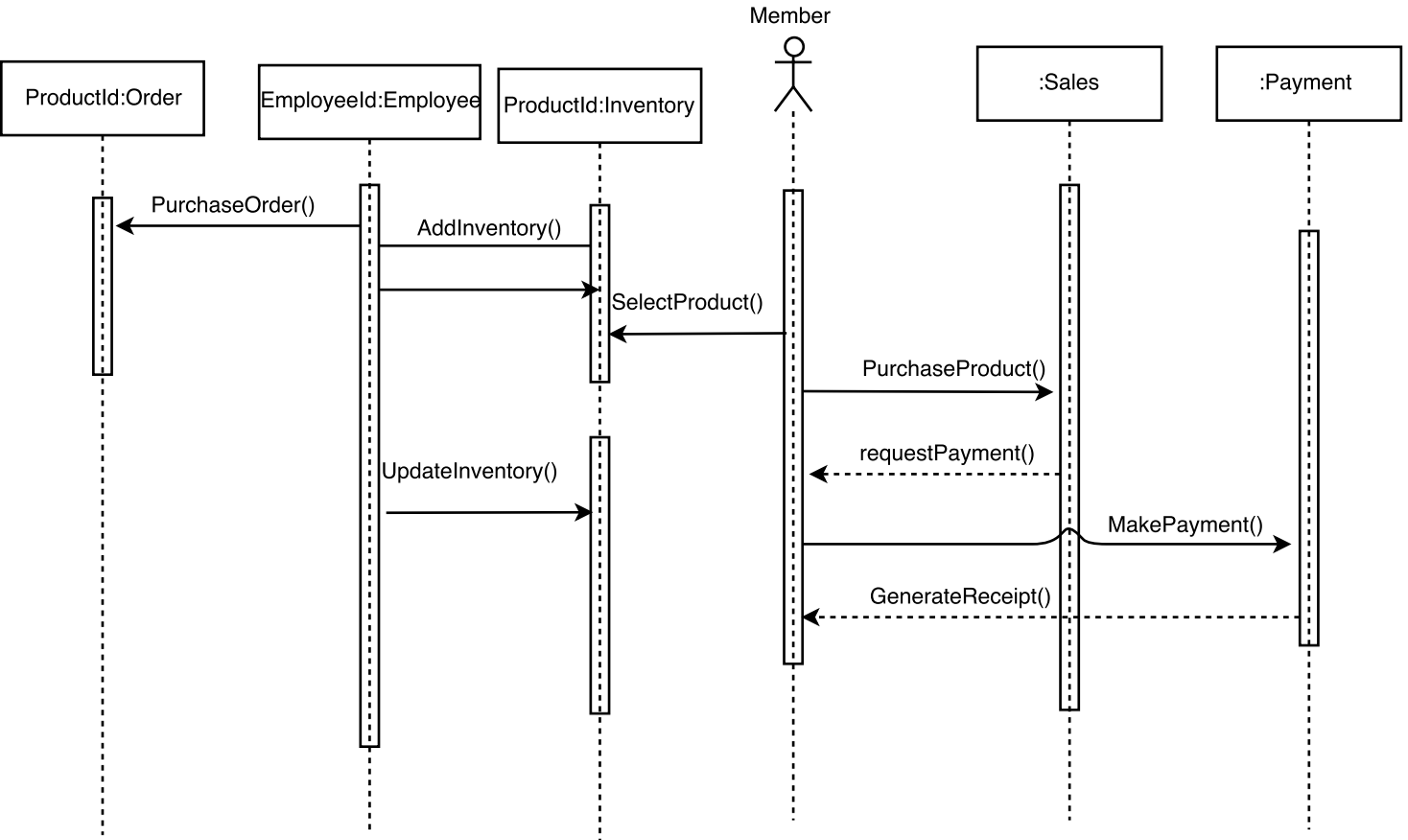
Manager

Assistant

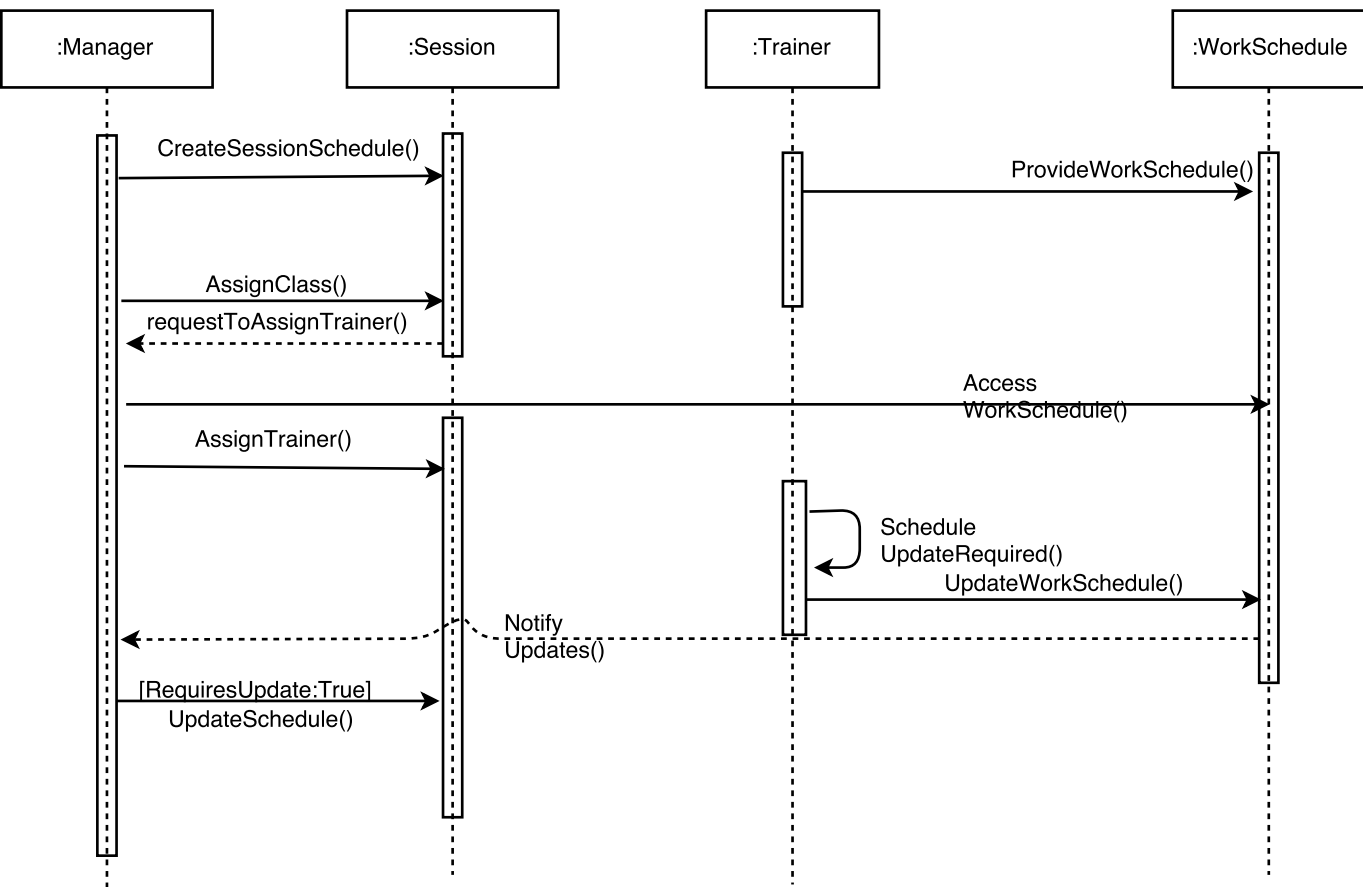




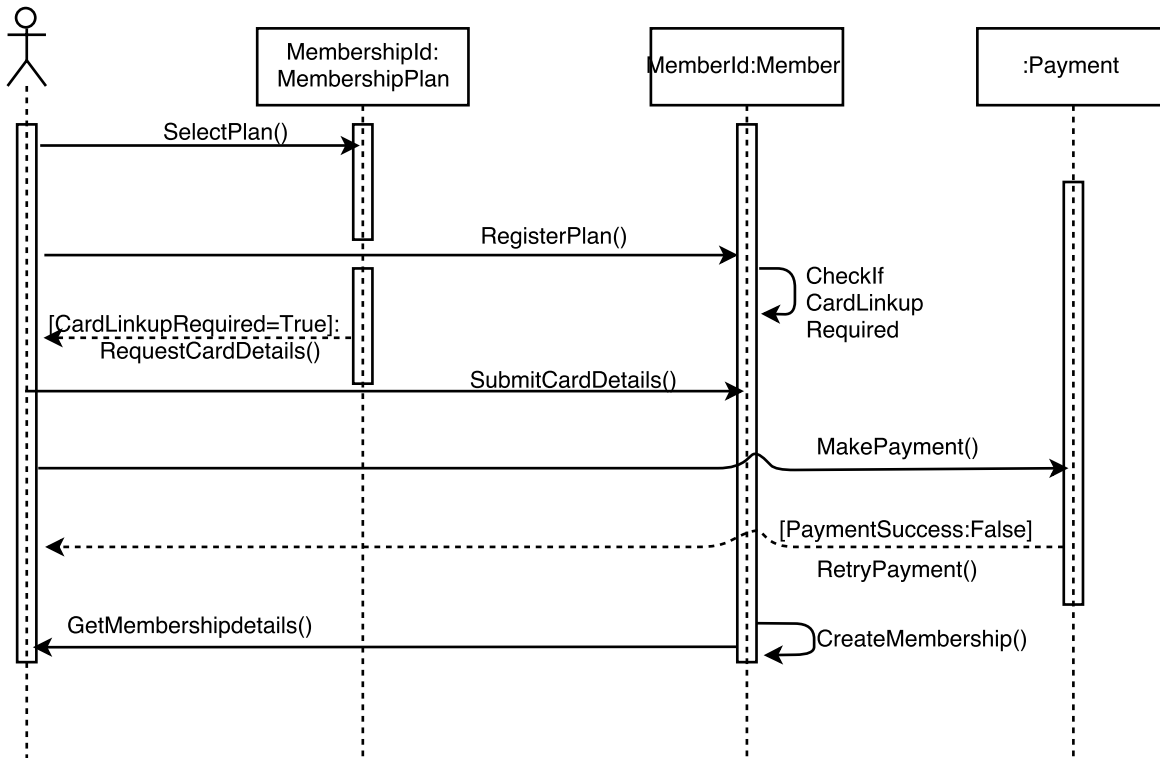
PurchaseInventory Sequence



Create & Update Session Schedule

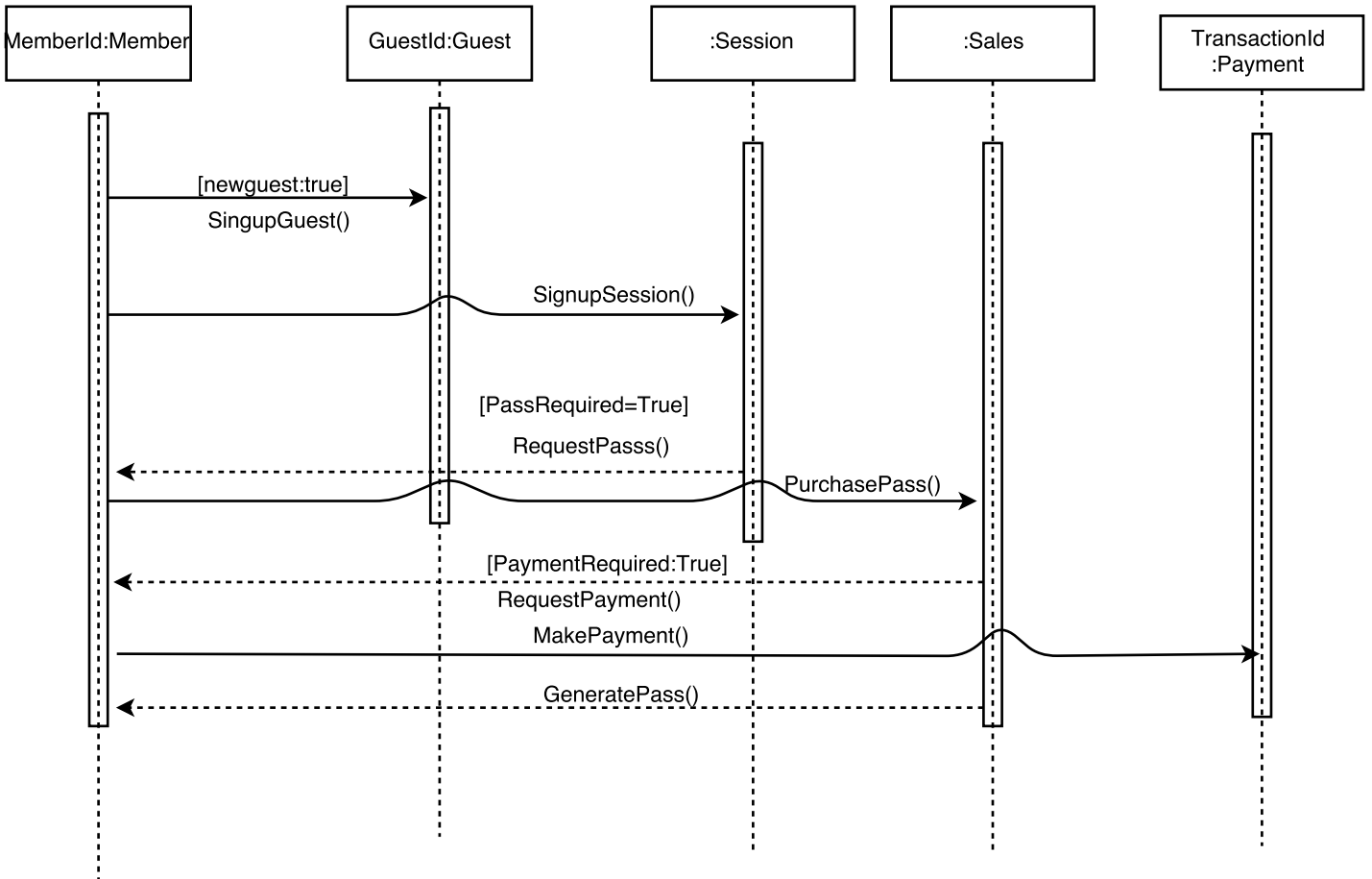


Member

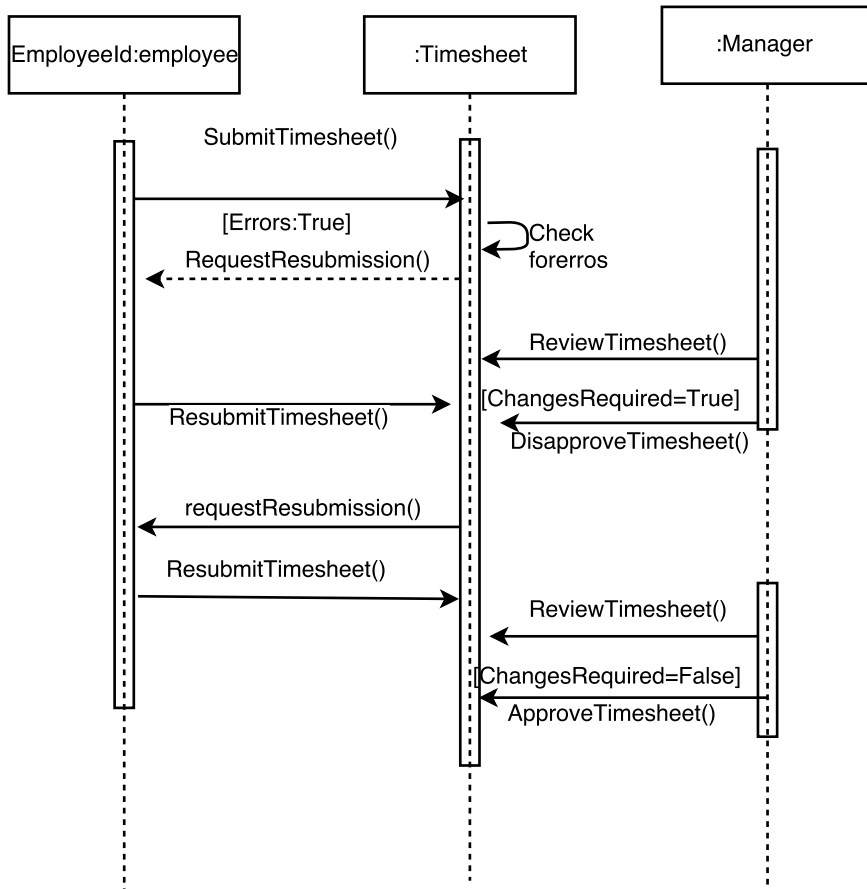


Member Registration

SessionSignupWithGuest



Timesheet Sequence



Contract Form

Method Name: RegisterPlan()

Class Name: Member

Associated Use Cases: Provide Plans, Sales

Description of Responsibilities:

Registers Plan, Makes Payment

Arguments Received/ Parameters for this method:

MemberName, PhoneNumber, EmailId, Address, City, State, Zip,
DateofBirth, Gender, PlanId

Data type of Arguments Received:

Varchar, Varchar, Varchar , String , Varchar, Varchar, Varchar, Date, Char, Integer,
Varchar, md5

Value Returned:

MemberId, PlanId, SaleId, PlanName, RegistrationStatus

Data type of Return Value:

Integer, Integer, Varchar, Varchar

Pre-Condition:

Post-Conditions:

-Member should be able to login with provided credintials

Contract Form

Method Name: SignupSession()

Class Name: Session

Associated Use Cases: Sales

Description of Responsibilities:

Selects Session, Signup Session, Purchases pass, Makes Payment

Arguments Received/ Parameters for this method:

UserId, SessionId, TransactionId

Data type of Arguments Received:

Integer, Integer, Integer , Integer

Value Returned:

PassId, SessionId, SessionName, TrainerName, Date, StartTime, Endtime

Data type of Return Value:

Integer, Integer, Varchar, Varchar, Date, Datetime, Endtime

Pre-Condition:

User should signup as guest or register to plan as a member

Post-Conditions:

-User should be able to attend the session with pass.



Queries

a> Generate monthly report on the popularity of group classes in the gym.

The report should include session name, no. of sessions held, trainer's name, no. of members enrolled and no of guests that paid for the class.

Member M, Guest G

Inner join A.Session_ID = S.Session_ID

Inner Join S.Employee_ID= E.Employee_ID

Where A.Member_ID = M.Member_ID

and A.Guest_ID = G.Guest_Id

and Session.Session_Date Between ("01-01-2016" and "31-01-2016")

Group By A.Member_Id , A.Guest_ID;

b> Generate monthly report on the popularity of merchandises being sold by the gym.

The report should include merchandise name, no. of items sold, total revenue generated.

Select P.Product_Name, Sum(SI.Quantity) as Total_Quantity_Sold, Sum(Sum(SI.Quantity)*
P.Product_Price) as Total_Revenue From SaleItem SI, Sales S Inner Join Product P ON Product
P.Product_Id = SI.Prodcut_ID,

Inner Join ON Sales S.Sale_ID = SI.Sale_ID

Group By P.Product_Name

Order By Sum(SI.Quantity) DESC;

;

Addttional Query

Each Membership plan taken by number of people over a year

Select MP.Plan_Name , Count(M.Member_Id) From Member M , Membership_Plan MP where
M.Plan_Id = MP.Plan_Id and

M.Created_Dttm Between "01-01-2016 00:00:00" and "12-31-2016 00:00:00"

Group By MP.Plan_Name

;

First name

first name

Last name

last name

Date of Birth

YYYY-MM-DD

Email

email

Address

City

city

Zip Code

Zip Code

Country

Country

Phone Number

1-(XXX)-(XXX)-(XXXX)

Gender

☒ Male ☐ Female

Choose Plan

Tables : Registration, Member

ALL SESSIONS

ZUMBA

YOGA

CARDIO

(Trainer 2)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
08.00 - 09.00	Zumba (Trainer 2)	Yoga (Trainer 1)					
09.00 - 10.00	Zumba (Trainer 2)	Yoga (Trainer 1)	Yoga (Trainer 3) Zumba (Trainer 2)	Yoga (Trainer 1)	Zumba (Trainer 2)		
11.00 - 12.00	Yoga (Trainer 2)	Zumba (Trainer 1)		Yoga	Yoga (Trainer 1)		
02.00 - 03.00						Zumba	Cardio
05.00 - 06.00	Cardio (Trainer 3)	Zumba (Trainer 1)		Yoga (Trainer 2)	Zumba (Trainer 4)		
07.00 - 08.00				Zumba (Trainer 1)	Yoga (Trainer 3)		Zumba (Trainer 2)
08.00 - 09.00						Cardio (Trainer 2)	Zumba (Trainer 1)

Tables:
Session, Employee,
WorkSchedule



CHOOSE YOUR PLAN

BASIC PLAN \$9.99/MONTH

- ✓ Equipment.
- ✓ Guests - \$10/session – only equipment
- ✓ Group fitness class - \$5/session; additional \$5 for guest/session
- ✓ Tanning and Hydro Massages - \$5/session

REGISTER NOW

FOX PLAN \$19.99/MONTH

- ✓ Equipment.
- ✓ Guest Privileges.
- ✓ Free group fitness classes
- ✓ Tanning and Hydro Massages

REGISTER NOW

PREPAID PLAN

- ✓ \$15 for 10 entries (Access Restricted to Equipment only).
- ✓ Guests - \$10/session – only equipment.
- ✓ Group fitness class - \$5/session; additional \$5 for guest/session
- ✓ Tanning and Hydro Massages - \$5/session

REGISTER NOW

Tables:
Membership_Plan
Member

Have a question

Please call us and before you decide.

1.***.***.***

281 × 258

ZUMBA

Description.....



TRAINER
NAME
Info

READ MORE

SCHEDULE

281 × 258

YOGA

Description.....



TRAINER
NAME
Info

READ MORE

SCHEDULE

281 × 258

CARDIO

Description.....



TRAINER
NAME
Info

READ MORE

SCHEDULE

281 × 258

AEROBICS

Description.....



TRAINER
NAME
Info

READ MORE

SCHEDULE

[MANAGE EMPLOYEES](#)[MANAGE SESSIONS](#)[MEMBERS](#)[TIMESHEETS](#)[MANAGE INVENTORY](#)[MANAGE PLANS](#)[ACCOUNT](#)[Manage Employees](#)[Create Employee](#)[Update Employee](#)

#	First Name	Last Name	Employee Type	Action	Timesheets
1	Trainer	One	Trainer	update Delete View	Details
2	Manager	One	Manager	update Delete View	Details
3	Trainer	Three	Trainer	update Delete View	Details

Tables: Employee



Timesheet

Employee Details:
Trainer ABC
12345

Submitted On : 10-10-2016

Time Sheet Period
03/10/2016 - 10/10/2016













Hours Worked			
Day	Time-iN	Time-OUt	Total Hours
Monday	10:00 AM	04:00 PM	6:00Hrs
Tuesday	10:00 AM	04:00 PM	6:00Hrs
Wednesday	10:00 AM	04:00 PM	6:00Hrs
Thursday	10:00 AM	04:00 PM	6:00Hrs
Friday	10:00 AM	04:00 PM	6:00Hrs
Saturday	10:00 AM	04:00 PM	6:00Hrs
Sunday	10:00 AM	02:00 PM	4:00Hrs
Total			40:00 Hrs

Tables:
Timesheet,
Employee,
TimeEntry

Approve

Disapprove

Products

<input type="checkbox"/>	Product Name	Product Description	Product Price	Expiry Date	Edit	Delete
<input type="checkbox"/>	Product 1	Desc....	\$29.99	11-12-2017		
<input type="checkbox"/>	Product 1	Desc....	\$29.99	11-12-2017		
<input type="checkbox"/>	Product 1	Desc....	\$29.99	11-12-2017		
<input type="checkbox"/>	Product 1	Desc....	\$29.99	11-12-2017		
<input type="checkbox"/>	Product 1	Desc....	\$29.99	11-12-2017		
<input type="checkbox"/>	Product 1	Desc....	\$29.99	11-12-2017		

Tables: Product, Inventory, Stock, Order

