Java Class/method name being tested: **GymManagerController, addMember method** and checkForErrorInInput method (checkForErrorInInput method is a helper method for addMember)

Test Case	Requirement	Test description and Input Data	Expected result/output
1	Should not accept a invalid name such as an empty first name or last name or both.	● Type in a empty first name but a filled in last name Test data: First Name field is empty Last Name field is "Last Name"	"Please enter your name."
2	Should not accept an invalid location such as a wrong name or empty name	● Type in a incorrect location name in the Location field Test Data: Location field is entered as "monroe"	"Enter a valid location."
3	Should not accept an invalid membership types such as selecting nothing under membership type.	● Select no button in the Membership field	"Enter a membership."
4	Should not accept a date where nothing is selected	● Do not select a date in the date picker in the Date field	"Enter a valid date."
5	Should not accept a date that makes a member younger than 18	● Pick a date that makes a person less than 18 ● Test Data: Select November 7 2022 in the Date Picker	"Enter a valid date."

6	Should not add a member that is already in the database	Create a Member and add them, then try adding the same member again. Test Data: First add Member: Carol Smith, DOB: 10/09/1987, Edison, Family Membership Then add the same member info again	"Carol Smith is already in the database."
7	If all fields are valid, then should add the member in the member database	Create a Member with valid information and try adding them. Test Data: April May, DOB: 8/15/1998, Bridgewater, Premium Membership	"April May added."

Java Class/method name being tested: **GymManagerController, removeMember method** and checkForErrorInInput method (checkForErrorInInput method is a helper method for removeMember)

Test Case	Requirement	Test description and Input Data	Expected result/output
1	Should not accept a invalid name such as an empty first name or last name or both.	● Type in a empty first name but a filled in last name Test data: First Name field is empty Last Name field is "Last Name"	"Please enter your name."
2	Should not accept an invalid location such as a wrong name or	● Type in a incorrect location name	"Enter a valid location."

	empty name	in the Location field Test Data: Location field is entered as "monroe"	
3	Should not accept an invalid membership types such as selecting nothing under membership type.	● Select no button in the Membership field	"Enter a membership."
4	Should not accept a date where nothing is selected	● Do not select a date in the date picker in the Date field	"Enter a valid date."
5	Should not accept a date that makes a member younger than 18	● Pick a date that makes a person less than 18 ● Test Data: Select November 7 2022 in the Date Picker	"Enter a valid date."
6	Should remove a member that is not in the database	Create a Member that is not in the member database and try removing them. Test Data: Remove Member: July August, DOB: 10/09/1986, Piscataway, Family Membership	"July August is not in the database."
7	If all fields are valid, and member exists in the database then should remove the member in the	Create a Member with valid information and try removing them.	"April May removed."

	member database	Test Data: April May, DOB: 8/15/1998, Bridgewater, Premium Membership	

Java Class/method name being tested: **GymManagerController, importMembersFile method**

Test Case	Requirement	Test description and Input Data	Expected result/output
1	Should not add the members if we enter an invalid Member file with invalid information for example the class schedule txt file from Project 2.	Import a random text file for example, the class schedule text file	"Invalid file!"
2	Should add the members if we enter a valid Member file with the correct information for example to Member List txt file form Project 2.	Import the member List txt file.	-list of members- July August, DOB: 10/9/1986, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) Guest-pass remaining: 1 John Doe, DOB: 1/20/2004, Membership expires 2/15/2023, Location: BRIDGEWATER, 08807, SOMERSET John Doe, DOB: 1/20/2003, Membership expired 3/30/2021, Location: BRIDGEWATER, 08807, SOMERSET Jane Doe, DOB: 5/1/1996, Membership expires 6/20/2023, Location: EDISON, 08837, MIDDLESEX April March, DOB:

			3/31/1990, Membership expires 12/30/2022, Location: PISCATAWAY, 08854, MIDDLESEX
			Mary Lindsey, DOB: 12/1/1989, Membership expires 5/31/2023, Location: FRANKLIN, 08873, SOMERSET
			Duke Ellington, DOB: 2/29/2000, Membership expires 4/30/2023, Location: FRANKLIN, 08873, SOMERSET
			Roy Brooks, DOB: 8/8/1977, Membership expired 9/30/2020, Location: SOMERVILLE, 08876, SOMERSET
			Roy Brooks, DOB: 9/9/1977, Membership expired 10/30/2022, Location: SOMERVILLE, 08876, SOMERSET
			Kate Lindsey, DOB: 7/15/1977, Membership expires 8/31/2023, Location: SOMERVILLE, 08876, SOMERSET
			Carl Brown, DOB: 10/7/1991, Membership expires 3/31/2023, Location: PISCATAWAY, 08854, MIDDLESEX
			Paul Siegel, DOB: 5/1/1999, Membership expired 1/31/2022, Location: EDISON, 08837, MIDDLESEX
			Bill Scanlan, DOB: 5/1/1999, Membership expires

			1/31/2023, Location: EDISON, 08837, MIDDLESEX -end of list-

Java Class/method name being tested: **GymManagerController, printMembers method**

Test Case	Requirement	Test description and Input Data	Expected result/output
1	If we select print Members in Information Hub with nothing in the Member Database should say that the database is empty	Select print with nothing in the member database.	"Member database is empty!"
2	If we select print in Information Hub and member database is not empty, should print all members in the member database	Suppose we had one member in the database: July August, DOB: 10/09/1986, Bridgewater, Family Membership And select print.	"-list of members-" "July August, DOB: 10/09/1986, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) Guest-pass remaining: 1 "end of list"

Java Class/method name being tested: **GymManagerController, printByExpirationDate method**

Test Case	Requirement	Test description and Input Data	Expected result/output
1	If we select print By Expiration Date in Information Hub with nothing in the Member Database should say that the database is empty	Select print By Expiration Date with nothing in the member database.	"Member database is empty!"

| 2 | If we select print By Expiration Date in Information Hub and member database is not empty, should print all members By Expiration Date | Suppose we had one member in the database:

July August, DOB: 10/09/1986, Bridgewater, Family Membership

And select print By Expiration Date. | -list of members sorted by membership expiration date-
July August, DOB: 10/9/1986, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) Guest-pass remaining: 1
-end of list- |

Java Class/method name being tested: **GymManagerController, printByName method**

Test Case	Requirement	Test description and Input Data	Expected result/output
1	If we select print By Name in Information Hub with nothing in the Member Database should say that the database is empty	Select print By Name with nothing in the member database.	"Member database is empty!"
2	If we select print By Name in Information Hub and member database is not empty, should print all members By Name	Suppose we had one member in the database: July August, DOB: 10/09/1986, Bridgewater, Family Membership And select print By Name	-list of members sorted by last name, and first name- July August, DOB: 10/9/1986, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) Guest-pass remaining: 1 -end of list-

Java Class/method name being tested: **GymManagerController, printMembershipFees method**

Test Case	Requirement	Test description and Input Data	Expected result/output
1	If we select print Membership Fees in Information Hub with nothing in the Member Database should say that the database is empty	Select print Membership Fees with nothing in the member database.	"Member database is empty!"
2	If we select print Membership Fees in Information Hub and member database is not empty, should print all members by Membership Fees	Suppose we had one member in the database: July August, DOB: 10/09/1986, Bridgewater, Family Membership And select print Membership Fees	-list of members with membership fees- July August, DOB: 10/9/1986, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) Guest-pass remaining: 1, Membership fee: $209.96 -end of list-

Java Class/method name being tested: **GymManagerController, printLoadedClassSchedule method**

Test Case	Requirement	Test description and Input Data	Expected result/output
1	If we select Load Class Schedule in the information hub, we should load the class schedule txt file that was imported.	Select Load Class Schedule in Information Hub.	-Fitness classes loaded- PILATES - JENNIFER, 9:30, BRIDGEWATER SPINNING - JENNIFER, 14:00, PISCATAWAY CARDIO - JENNIFER, 18:30, SOMERVILLE

			PILATES - KIM, 9:30, FRANKLIN SPINNING - KIM, 14:00, FRANKLIN CARDIO - KIM, 18:30, PISCATAWAY PILATES - DAVIS, 9:30, PISCATAWAY PILATES - DAVIS, 14:00, EDISON CARDIO - DAVIS, 18:30, BRIDGEWATER SPINNING - DENISE, 9:30, BRIDGEWATER CARDIO - DENISE, 14:00, SOMERVILLE SPINNING - DENISE, 18:30, EDISON SPINNING - EMMA, 9:30, FRANKLIN PILATES - EMMA, 14:00, EDISON CARDIO - EMMA, 18:30, EDISON -end of class list-

Java Class/method name being tested: **GymManagerController, printFullClassSchedule method**

Test Case	Requirement	Test description and Input Data	Expected result/output
1	If we select Show all Classes in information hub, should load all of the classes in Class Schedule and the members/guests in each class	Select Show all Classes in the Information Hub. Suppose July August, DOB: 10/09/1986, Bridgewater, Family Membership Was in Jennifers 9:30	-Fitness classes loaded- PILATES - JENNIFER, 9:30, BRIDGEWATER - Participants - July August, DOB: 10/9/1986, Membership expires

| | | Pilates class at bridgewater using the class schedule txt file. | 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET SPINNING - JENNIFER, 14:00, PISCATAWAY CARDIO - JENNIFER, 18:30, SOMERVILLE PILATES - KIM, 9:30, FRANKLIN SPINNING - KIM, 14:00, FRANKLIN CARDIO - KIM, 18:30, PISCATAWAY PILATES - DAVIS, 9:30, PISCATAWAY PILATES - DAVIS, 14:00, EDISON CARDIO - DAVIS, 18:30, BRIDGEWATER SPINNING - DENISE, 9:30, BRIDGEWATER CARDIO - DENISE, 14:00, SOMERVILLE SPINNING - DENISE, 18:30, EDISON SPINNING - EMMA, 9:30, FRANKLIN PILATES - EMMA, 14:00, EDISON CARDIO - EMMA, 18:30, EDISON -end of class list- |
| | | | |

Java Class/method name being tested: **GymManagerController, checkInToFitnessClass** and checkTimeConflictsOrCheckIn
 and checkForErrorInInput2 method (checkForErrorInInput2 method and checkTimeConflictsOrCheckIn
are helper methods for checkInToFitnessClass)

Test Case	Requirement	Test description and Input Data	Expected result/output
1	Should not accept a member with an invalid name such as empty space for first or last name	● empty first name and last name Test data: First Name and Last Name field is empty	"Please enter your name."
2	Should not accept a member with an invalid location such as an incorrect location or empty location	Test data: Enter monroe in location field	"Enter a valid location."
3	Should not accept a member with an empty instructor name	Test data: Enter nothing in the Instructor field	"Enter an instructor name. "
4	Should not accept a member with an empty class name	Test data: Enter nothing in the class name field	"Enter a class name. "
5	Should not accept a member with no selection for guest or member check in.	Test data: Do not select either radio buttons for Member or Guest field	"Select member or guest."
6	Should not accept a date where nothing is selected	● Do not select a date in the date picker in the Date field	"No date was entered."
7	Should not accept a member whose dob makes them less than 18	Test Data: Choose today's date for the DOB field.	"Select a valid date."
	Should not accept a member that doesn't already exist in the member database	Test Data: Jessica Simpson, DOB: 10/07/1998, Bridgewater, Jennifer,	"Jessica Simpson is not in the database."

		Pilates, Member check in	
	Should not accept an instructor that is not Kim, Denise, Davis, Emma or Jennifer	Test Data: Enter Carrie in the instructor field	"Carrie - instructor does not exist."
	Should not accept a member whose membership expired.	Test Data: Use Paul Siegel, DOB: 5/1/1999 from the membersList txt file	" membership expired"
	Should not accept a class that is not Pilates, Spinning or Cardio	Test Data: Enter Running in class name field	"Running - class does not exist"
	Should not accept a class whose instructor doesn't teach at that location	Test Data: Enter Spinning for class name field, Denise for instructor field and Somerville for location field	"Spinning by Densie does not exist at Somerville"
	Should not check in a member if they are already checked in	Test Data: Check in a member with valid information and check in that same member again. Bill Scanlan, DOB: 5/1/1999, Location: EDISON, PILATES - DAVIS, 14:00, EDISON	"Bill Scanlan already checked in."
	Should not check in a member if there is a time conflict with another class they are already in.		
	Should check in a member with valid	Test Data:	Bill Scanlan checked in PILATES - DAVIS,

	information.	Check in: Bill Scanlan, DOB: 5/1/1999, Location: EDISON, PILATES - DAVIS, 14:00, EDISON	14:00, EDISON
	Should not check in a member with a standard membership into a location that is different from their location.	Test Data: Suppose we use this member from the membersList.txt file: Bill Scanlan, DOB: 5/1/1999, Membership expires 1/31/2023, Location: EDISON, 08837, MIDDLESEX Try checking them in to this class: PILATES - JENNIFER, 9:30, BRIDGEWATER	Bill Scanlan checking in BRIDGEWATER, 08807, SOMERSET - standard membership location restriction.
	Should not check in a guest for a member with a standard membership	Suppose we use this member from the membersList.txt file: Bill Scanlan, DOB: 5/1/1999, Membership expires 1/31/2023, Location: EDISON, 08837, MIDDLESEX And try adding a guest.	"Standard membership - guest check-in is not allowed.
	Should not allow guests to check into classes outside of the members location.	Suppose we check in this member: April March, DOB; 10/07/2001, Location: Bridgewater, of Family membership	April March Guest checking in PISCATAWAY, 08854, MIDDLESEX - guest location restriction.

		And then check in a guest for this class: SPINNING - JENNIFER, 14:00, PISCATAWAY	
	Should allow guests to check in if in the same location as a member.	Suppose we continue using April March, and want to check in another guest for this class: PILATES - JENNIFER, 9:30, BRIDGEWATER	April March (guest) checked in PILATES - JENNIFER, 9:30, BRIDGEWATER - Guests - April March, DOB: 10/7/2000, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) Guest Passes remaining: 0
	Should not allow guests to check in if there are no more guest passes available.	Suppose we continue using April March, and want to check in another guest for this class: PILATES - JENNIFER, 9:30, BRIDGEWATER	April March ran out of guest passes.

Java Class/method name being tested: **GymManagerController, checkOutOfFitnessClass method** and checkForErrorInInput2 method (checkForErrorInInput2 method is a helper method for checkInToFitnessClass)

Test Case	Requirement	Test description and Input Data	Expected result/output
1	Should not accept a member with an invalid name such as empty space for first or last name	● empty first name and last name Test data: First Name and Last Name field is empty	"Please enter your name."

2	Should not accept a member with an invalid location such as an incorrect location or empty location	Test data: Enter monroe in location field	"Enter a valid location."
3	Should not accept a member with an empty instructor name	Test data: Enter nothing in the Instructor field	"Enter an instructor name. "
4	Should not accept a member with an empty class name	Test data: Enter nothing in the class name field	"Enter a class name. "
5	Should not accept a member with no selection for guest or member check in.	Test data: Do not select either radio buttons for Member or Guest field	"Select member or guest."
6	Should not accept a date where nothing is selected	● Do not select a date in the date picker in the Date field	"No date was entered."
7	Should not accept a member whose dob makes them less than 18	Test Data: Choose today's date for the DOB field.	"Select a valid date."
	Should not accept a member that doesn't already exist in the member database	Test Data: Jessica Simpson, DOB: 10/07/1998, Bridgewater, Jennifer, Pilates, Member check in	"Jessica Simpson is not in the database."
	Should not accept an instructor that is not Kim, Denise, Davis, Emma or Jennifer	Test Data: Enter Carrie in the instructor field	"Carrie - instructor does not exist."
	Should not accept a member whose membership expired.	Test Data: Use Paul Siegel, DOB: 5/1/1999 from	" membership expired"

		the membersList txt file	
	Should not accept a class that is not Pilates, Spinning or Cardio	Test Data: Enter Running in class name field	"Running - class does not exist"
	Should not accept a class whose instructor doesn't teach at that location	Test Data: Enter Spinning for class name field, Denise for instructor field and Somerville for location field	"Spinning by Densie does not exist at Somerville"
	Should not check out a member who is not checked in	Test Data: Enter information for a member that does not exist in a fitness class Suppose we have a member: April March, DOB: 10/7/2000, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) that did not check in to any class and we want to check them out from some class : SPINNING - DENISE, 18:30, EDISON	April March did not check in.
	Should check out a member that is checked into a class	Suppose : April March, DOB: 10/7/2000, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) checked into SPINNING - DENISE, 18:30,	April March done with the class.

		EDISON and then checked out of that class.	
	Should check out a guest that is checked into a class	April March, DOB: 10/7/2000, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) had a guest checked into PILATES - JENNIFER, 9:30, BRIDGEWATER and wanted to check out.	"April March Guest done with the class"
	Should not check out a guest when there are none to check out	Try checking out a member who does not have any more guests. Try checking out a guest for April March, DOB: 10/7/2000, Membership expires 2/7/2023, Location: BRIDGEWATER, 08807, SOMERSET, (Family) who no longer has any guests	"There are no guests to check out."

ava Class/method name being tested: **GymManagerController, importClassScheduleFile method**

Test Case	Requirement	Test description and Input Data	Expected result/output
1	Should not add the class Schedule if we enter an invalid class schedule file with invalid information for example the	Import a random text file for example, the member List text file	"Invalid file!"

	memberList txt file from Project 2.		
2	Should add the class schedule if we enter a valid class schedule file with the correct information for example add class schedule txt file form Project 2.	Import the Class Schedule txt file.	-Fitness classes loaded- PILATES - JENNIFER, 9:30, BRIDGEWATER SPINNING - JENNIFER, 14:00, PISCATAWAY CARDIO - JENNIFER, 18:30, SOMERVILLE PILATES - KIM, 9:30, FRANKLIN SPINNING - KIM, 14:00, FRANKLIN CARDIO - KIM, 18:30, PISCATAWAY PILATES - DAVIS, 9:30, PISCATAWAY PILATES - DAVIS, 14:00, EDISON CARDIO - DAVIS, 18:30, BRIDGEWATER SPINNING - DENISE, 9:30, BRIDGEWATER CARDIO - DENISE, 14:00, SOMERVILLE SPINNING - DENISE, 18:30, EDISON SPINNING - EMMA, 9:30, FRANKLIN PILATES - EMMA, 14:00, EDISON CARDIO - EMMA, 18:30, EDISON -end of class list-