

Instruction Guide for Gym Management System

How To USE Main Menu

Welcome to our Gym Management System

The Main Menu has 7 Options

1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit

If Section is selected a SubMenu for that Section will be opened

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----  
1. Equipment Management  
2. Members Management  
3. Payment Management  
4. Trainer Management  
5. Fitness Class Management  
6. Employee Management (Staff)  
7. Exit  
Enter your choice:
```

If a number not listed is selected, the menu will send out a message stating that the option is not valid and to select a valid option, the program will not exit unless the option (7)Exit is chosen.

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----  
1. Equipment Management  
2. Members Management  
3. Payment Management  
4. Trainer Management  
5. Fitness Class Management  
6. Employee Management (Staff)  
7. Exit  
Enter your choice: 9  
Invalid Option Please Try again
```

Option (1) Equipment Management - will navigate to the Equipment Management SubMenu

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----  
1. Equipment Management  
2. Members Management  
3. Payment Management  
4. Trainer Management  
5. Fitness Class Management  
6. Employee Management (Staff)  
7. Exit  
Enter your choice: 1  
  
===== Equipment Management Menu =====  
1. Create New Equipment  
2. Remove Equipment  
3. Search Equipment by ID  
4. Update Equipment Information  
5. Display All Equipment  
6. Return to Main Menu  
Enter your choice: █
```

Option (2) Members Management - will navigate to the Members Management SubMenu

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----  
1. Equipment Management  
2. Members Management  
3. Payment Management  
4. Trainer Management  
5. Fitness Class Management  
6. Employee Management (Staff)  
7. Exit  
Enter your choice: 2  
  
===== Member Management Menu =====  
1. Add New Member  
2. Remove Member  
3. Search Member by ID  
4. Update Member Information  
5. Update Member PIN  
6. Display All Members  
7. Check-in Member  
8. Show Checked-in Members  
9. Return to Main Menu  
Enter your choice: █
```

Option (3) Payment Management - will navigate to the Payment Management SubMenu

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----  
1. Equipment Management  
2. Members Management  
3. Payment Management  
4. Trainer Management  
5. Fitness Class Management  
6. Employee Management (Staff)  
7. Exit  
Enter your choice: 3  
  
===== Payment Management Menu =====  
1. Add Payment Information  
2. Search Payment Information  
3. Update Payment Information  
4. Display All Payments  
5. Return to Main Menu  
Enter your choice: █
```

Option (4) Trainer Management - will navigate to the Trainer Management SubMenu

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----  
1. Equipment Management  
2. Members Management  
3. Payment Management  
4. Trainer Management  
5. Fitness Class Management  
6. Employee Management (Staff)  
7. Exit  
Enter your choice: 4  
  
===== Trainer Management Menu =====  
1. Add Trainer  
2. Remove Trainer  
3. Modify Trainer  
4. Display All Trainers  
5. Search for Trainer (ID)  
6. Return to Main Menu  
Enter your choice: █
```

Option (5) FitnessClass Management - will navigate to the FitnessClass Management SubMenu

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----  
1. Equipment Management  
2. Members Management  
3. Payment Management  
4. Trainer Management  
5. Fitness Class Management  
6. Employee Management (Staff)  
7. Exit  
Enter your choice: 5  
  
===== Fitness Class Menu =====  
1. Add Fitness Class  
2. Remove Fitness Class  
3. Search Fitness Class  
4. Show Class Schedule  
5. Sign Member Up for Class  
6. Cancel Class  
7. Cancel Class  
8. Return to Main Menu  
Choose an option: |
```

Option (6) Employee Management - will navigate to the Employee Management SubMenu

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----  
1. Equipment Management  
2. Members Management  
3. Payment Management  
4. Trainer Management  
5. Fitness Class Management  
6. Employee Management (Staff)  
7. Exit  
Enter your choice: 6  
  
===== Staff Management Menu =====  
1. Add Staff  
2. Remove Staff  
3. Modify Staff Information  
4. Display All Staff  
5. Check-In Staff  
6. Display Checked-In Staff  
7. Return to Main Menu  
Enter your choice: |
```

Option (7) Exiting Program Demonstration: To Exit the program, select 7, program will show a comment stating that you are exiting the program and will exit.

```

-----
===== H.I.I.T LABS Gym Main Menu =====
-----
1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit
Enter your choice: 7
Exiting Application

```

DUMMY DATA

This information will be helpful during the program especially During the demonstration of some of the methods.

Note:**DATES ARE NOT ACCURATE THEY ARE JUST THERE TO HAVE SOMETHING**

<u>General Equipment</u>	<u>Gen Equip ID</u>	<u>Date Purchased</u>	<u>Avg life</u>
<u>Threadmill</u>	<u>1000</u>	<u>12/24/25</u>	<u>3 YRS</u>
<u>Threadmill</u>	<u>1100</u>	<u>12/24/25</u>	<u>3 YRS</u>
<u>Threadmill</u>	<u>1110</u>	<u>12/24/25</u>	<u>3 YRS</u>
<u>Weight Bench</u>	<u>2000</u>	<u>1/19/25</u>	<u>3 YRS</u>
<u>Weight Bench</u>	<u>2100</u>	<u>1/21/25</u>	<u>3 YRS</u>
<u>Weight Bench</u>	<u>2110</u>	<u>1/20/25</u>	<u>3 YRS</u>
<u>Regular Bike</u>	<u>3000</u>	<u>1/4/24</u>	<u>3 YRS</u>
<u>Regular Bike</u>	<u>3100</u>	<u>6/12/25</u>	<u>3 YRS</u>
<u>Regular Bike</u>	<u>3110</u>	<u>7/12/23</u>	<u>3 YRS</u>

Special Equipment Structure

(NAME, ID, DATE, AVGLIFE, START TIME, END TIME, AVAILABLE DAY)

(Tanning Bed, 9000, 12/1/25, 8, 8:00 AM, 12:00 PM, 1/23/24);
 (UnderWaterThreadmill, 9100, 12/1/25, 8, 10:00 AM, 2:00 PM, 1/23/24);
 (Ski Simulator, 9110, 12/1/25, 8, 7:00 AM, 10:00 AM, 1/23/24);
 (Golf Simulator, 9111, 12/1/25, 8, 10:00 AM, 3:00 PM, 1/23/24);
 (Boat Rowing Simulator, 9211, 12/1/25, 8, 10:00 AM, 3:00 PM, 1/23/24);
 (Peloton Bike, 9221, 1/3/25, 8, 7:00 AM, 10:00 AM, 1/23/24);

Trainer Structure

(NAME, AGE, PHONENUM, STAFF ID, STAFF RANK, SPECIALTY)

(Sophie, 21, 678-1112, 5000, 1, Zumba);
(Antonio, 26, 676-9807, 5100, 1, Cardio);
(Julie, 23, 458-1674, 5110, 1, Body Sculpting);
(Sanchez, 28, 128-1133, 5111, 1, Martial Arts);
(Louis, 32, 199-1123, 5200, 1, Calisthetics);

Member Structure

(NAME, AGE, MEMBERID, CHECKIN PIN, PHONENUMBER, EMAIL, MEMBERSHIP type)

("Angel", 19, 1000, 1234, "678-1121", "noreply@gmail.com", 1)
("Antwain", 23, 1100, 1267, "633-1144", "antwain12@gmail.com", 3)
("Selene", 45, 1110, 6767, "223-131", "seleny30@gmail.com", 2)
("Ezekiel", 56, 1111, 6969, "656-1681", "xekiell29@gmail.com", 1)
("Junes", 34, 1200, 2109, "655-2212", "sjaejl@gmail.com", 1)
("Cruz", 23, 1210, 7272, "093-1411", "dsajecruz@gmail.com", 3)
("Juan", 76, 1211, 9999, "420-6969", "wizardlyguy67@gmail.com", 3)
("Lupe", 27, 1300, 1111, "693-3331", "ddmegadul20doo@gmail.com", 2)
("Veronica", 21, 1310, 2221, "645-2911", "luan123@gmail.com", 1)
("Jesus", 18, 1311, 3331, "112-3411", "jesusbb112@gmail.com", 1)

Fitness Class Structure

CLASS NAME, DATE OF CLASS, TIME OF CLASS,
DESCRIPTION OF CLASS
ASSIGNED TRAINER

"Zumba", "1/23/24", "12:00 PM",
"A popular exercise program that integrates Latin music
with choreographed dance movements",
Trainer1

"Cardio", "1/23/24", "3:00 PM", "Your respiratory system will start
working harder as you begin to breathe faster and more deeply"
Trainer2

"Martial Arts",
"1/23/24",
"7:00 AM",
"Combat readiness applications; non-violent exercise; ceremonial and
competition training; physical, mental, and spiritual development",
Trainer4

Staff Structure

```
(NAME, AGE, PHONENUM, STAFFID, STAFFRANK)
("Joseph", 23, "1122-1234", 1000, 1);
("Lusero", 28, "1122-1234", 1100, 2);
("Juanita", 39, "1122-1234", 1110, 1);
("Anita", 20, "1122-1234", 1111, 1);
("John", 29, "1122-1234", 1200, 3);
("Carlos", 21, "1122-1234", 1210, 2);
("Bruno", 19, "1122-1234", 1211, 2);
("Washington", 67, "1122-1234", 1300, 1);
```

Payment Structure

```
(MEMBER, CARDNUM, EXP DATE, CVV)
(M1, "1234", "12/25", "111")
(M2, "5678", "11/24", "222")
(M3, "9012", "10/26", "333")
(M4, "4321", "01/27", "444")
(M5, "8765", "08/23", "555")
(M6, "9999", "09/25", "666")
(M7, "2222", "03/24", "777")
(M8, "3333", "04/26", "888")
(M9, "4444", "06/27", "999")
(M10, "5555", "07/28", "123")
```

Equipment Manager

Option (1)Equipment Management Demonstration: If you select option 1 in Main Menu, you will be prompted with the Equipment SubMenu in which you are able to:

1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu

```

-----
===== H.I.I.T LABS Gym Main Menu =====
-----
1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit
Enter your choice: 1

===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: █

```

Option (1) Equipment Manager; Option (5) Display Equipment

Demonstration: If option 5 is selected (Display Equipment) the loaded Equipment (Dummy Data) will be shown. There will be two lists one for Regular Equipment and another for Specialized Equipment. In the chart there will be this information shown; then return.

For Regular Equipment: Number, Name of Equipment, Equipment ID, Purchase Date of Equipment, Average LifeSpan of Equipment.

For Specialized Equipment: Number, Name of Equipment, Equipment ID, Purchase Date of Equipment, Average LifeSpan of Equipment, When that piece of Equipment is Available During that day, Start Time (AM/PM) to End Time (AM/PM)

The Program Displays Both Equipments(Special and Regular)

===== REGULAR EQUIPMENT =====				
No	Name	ID	Purchased	Life(Yrs)
1	Threadmill	1000	12/24/25	3
2	Threadmill	1100	12/24/25	3
3	Threadmill	1110	12/24/25	3
4	Weight Bench	2000	1/19/25	3
5	Weight Bench	2100	1/21/25	3
6	Weight Bench	2110	1/20/25	3
7	Regular Bike	3000	1/4/24	3
8	Regular Bike	3100	6/12/25	3
9	Regular Bike	3110	7/12/23	3

===== SPECIALIZED EQUIPMENT =====							
No	Name	ID	Purchased	Life(Yrs)	Available Date	Start Time	End Time
1	Tanning Bed	9000	12/1/25	8	1/23/24	8:00 AM	12:00 PM
2	UnderWaterThreadmill	9100	12/1/25	8	1/23/24	10:00 AM	2:00 PM
3	Ski Simulator	9110	12/1/25	8	1/23/24	7:00 AM	10:00 AM
4	Golf Simulator	9111	12/1/25	8	1/23/24	10:00 AM	3:00 PM
5	Boat Rowing Simulator	9211	12/1/25	8	1/23/24	10:00 AM	3:00 PM
6	Peloton Bike	9221	1/3/25	8	1/23/24	7:00 AM	10:00 AM

The program will display information then return to Equipment Manager SubMenu.

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 5
```

Option (1) Equipment Manager; Option (4) Update Equipment Information

Demonstration: If option 4 is selected (Updated Equipment): you will be prompted to enter the Equipment ID you would like to update, then Enter the new name, and lifespan of that equipment.

-You will have the option to press Enter to not change anything on that field, If you decide not to change that specific field.

-If Equipment ID is not found or does not exist, you will be prompted with a message and the program will return to Equipment SubMenu.

-the modified equipment will be shown in (5)Display Equipment

Case 1. Equipment ID Doesn't Exist:

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 4
Enter Equipment ID to update: 1
Equipment piece not found
Equipment not found. No update performed.
```

Case 2. Equipment Name and Avglife is Changed:

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 4
Enter Equipment ID to update: 1000

--- Leave a field blank to keep current value ---
Current Name: Threadmill
Enter new name (or press ENTER to keep): Curved ThreadMill
Current Life (years): 3
Enter new average life (or press ENTER to keep): 4
Equipment Updated Successfully
```

Case 2.1 Changes Displayed (5)Display Equipment:

===== REGULAR EQUIPMENT =====				
No	Name	ID	Purchased	Life(Yrs)
1	Curved Threadmill	1000	12/24/25	4
2	Threadmill	1100	12/24/25	3
3	Threadmill	1110	12/24/25	3
4	Weight Bench	2000	1/19/25	3
5	Weight Bench	2100	1/21/25	3
6	Weight Bench	2110	1/20/25	3
7	Regular Bike	3000	1/4/24	3
8	Regular Bike	3100	6/12/25	3
9	Regular Bike	3110	7/12/23	3

===== SPECIALIZED EQUIPMENT =====							
No	Name	ID	Purchased	Life(Yrs)	Available Date	Start Time	End Time
1	Tanning Bed	9000	12/1/25	8	1/23/24	8:00 AM	12:00 PM
2	UnderWaterThreadmill	9100	12/1/25	8	1/23/24	10:00 AM	2:00 PM
3	Ski Simulator	9110	12/1/25	8	1/23/24	7:00 AM	10:00 AM
4	Golf Simulator	9111	12/1/25	8	1/23/24	10:00 AM	3:00 PM
5	Boat Rowing Simulator	9211	12/1/25	8	1/23/24	10:00 AM	3:00 PM
6	Peloton Bike	9221	1/3/25	8	1/23/24	7:00 AM	10:00 AM

Case 3. Nothing Is Changed (Exp: with Specialized Equipment):

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 4
Enter Equipment ID to update: 9211

--- Leave any field blank to keep its current value ---
Current Name: Boat Rowing Simulator
Enter new name:
Current Life (yrs): 8
Enter new average life:
Current Availability Date: 1/23/24
Enter new date:
Current Start Time: 10:00 AM
Enter new start time:
Current End Time: 3:00 PM
Enter new end time:
Specialized Equipment Updated Successfully!
```

===== REGULAR EQUIPMENT =====								
No	Name	ID	Purchased	Life(Yrs)				
1	Threadmill	1000	12/24/25	3				
2	Threadmill	1100	12/24/25	3				
3	Threadmill	1110	12/24/25	3				
4	Weight Bench	2000	1/19/25	3				
5	Weight Bench	2100	1/21/25	3				
6	Weight Bench	2110	1/20/25	3				
7	Regular Bike	3000	1/4/24	3				
8	Regular Bike	3100	6/12/25	3				
9	Regular Bike	3110	7/12/23	3				
===== SPECIALIZED EQUIPMENT =====								
No	Name	ID	Purchased	Life(Yrs)	Available Date	Start Time	End Time	
1	Tanning Bed	9000	12/1/25	8	1/23/24	8:00 AM	12:00 PM	
2	UnderWaterThreadmill	9100	12/1/25	8	1/23/24	10:00 AM	2:00 PM	
3	Ski Simulator	9110	12/1/25	8	1/23/24	7:00 AM	10:00 AM	
4	Golf Simulator	9111	12/1/25	8	1/23/24	10:00 AM	3:00 PM	
5	Boat Rowing Simulator	9211	12/1/25	8	1/23/24	10:00 AM	3:00 PM	←
6	Peloton Bike	9221	1/3/25	8	1/23/24	7:00 AM	10:00 AM	

(Information stays the same and it is shown through (5) Display Equipment.)

Option (1) Equipment Manager; Option (3) Search Equipment by ID

Demonstration: If option 3 is selected (Search Equipment): you will be prompted to **enter the Equipment ID you would like to find, if Equipment ID does not Exist, you'll be shown a text that states so and program will return to Equipment SubMenu.**

Case 1. Equipment ID exists(Here I Enter Equipment ID 9000, program returns information of Equipment Piece)

```

===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 3
Enter Equipment ID to search:
9000
Equipment Name: Tanning Bed
Equipment Id: 9000
Date Purchased: 12/1/25
Average Life: 8 YRS

```

Case 2. Equipment ID DOES NOT exists(Here I Enter Equipment ID 2321, program returns message that "Equipment with ID (####) not found")

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 3
Enter Equipment ID to search:
2321
Equipment piece not found
Equipment with ID 2321 not found.
```

Option (1) Equipment Manager; Option (2) Remove Equipment by ID
Demonstration: If option 3 is selected (Search Equipment): you will be
prompted to enter the Equipment ID you would like to remove, if
Equipment ID does not Exist, you'll be shown a text that states so and
program will return to Equipment SubMenu.

(I will Remove Threadmill ID:1000 and Tanning Bed ID:9000)

REGULAR EQUIPMENT				
No	Name	ID	Purchased	Life(Yrs)
1	Threadmill	1000	12/24/25	3
2	Threadmill	1100	12/24/25	3
3	Threadmill	1110	12/24/25	3
4	Weight Bench	2000	1/19/25	3
5	Weight Bench	2100	1/21/25	3
6	Weight Bench	2110	1/20/25	3
7	Regular Bike	3000	1/4/24	3
8	Regular Bike	3100	6/12/25	3
9	Regular Bike	3110	7/12/23	3

SPECIALIZED EQUIPMENT							
No	Name	ID	Purchased	Life(Yrs)	Available Date	Start Time	End Time
1	Tanning Bed	9000	12/1/25	8	1/23/24	8:00 AM	12:00 PM
2	UnderWaterThreadmill	9100	12/1/25	8	1/23/24	10:00 AM	2:00 PM
3	Ski Simulator	9110	12/1/25	8	1/23/24	7:00 AM	10:00 AM
4	Golf Simulator	9111	12/1/25	8	1/23/24	10:00 AM	3:00 PM
5	Boat Rowing Simulator	9211	12/1/25	8	1/23/24	10:00 AM	3:00 PM
6	Peloton Bike	9221	1/3/25	8	1/23/24	7:00 AM	10:00 AM

Case 1. Remove Special and Regular Equipment

===== Equipment Management Menu =====

1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu

Enter your choice: 2

Enter Equipment ID to remove: 9000

Specialized equipment removed

Equipment successfully removed.

===== Equipment Management Menu =====

1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu

Enter your choice: 2

Enter Equipment ID to remove: 1000

Regular equipment removed

Equipment successfully removed.

(Threadmill ID:1000 and Tanning Bed ID:9000 are no longer in List of Equipment)

===== REGULAR EQUIPMENT =====

No	Name	ID	Purchased	Life(Yrs)
1	Threadmill	1100	12/24/25	3
2	Threadmill	1110	12/24/25	3
3	Weight Bench	2000	1/19/25	3
4	Weight Bench	2100	1/21/25	3
5	Weight Bench	2110	1/20/25	3
6	Regular Bike	3000	1/4/24	3
7	Regular Bike	3100	6/12/25	3
8	Regular Bike	3110	7/12/23	3

===== SPECIALIZED EQUIPMENT =====

No	Name	ID	Purchased	Life(Yrs)	Available Date	Start Time	End Time
1	UnderWaterThreadmill	9100	12/1/25	8	1/23/24	10:00 AM	2:00 PM
2	Ski Simulator	9110	12/1/25	8	1/23/24	7:00 AM	10:00 AM
3	Golf Simulator	9111	12/1/25	8	1/23/24	10:00 AM	3:00 PM
4	Boat Rowing Simulator	9211	12/1/25	8	1/23/24	10:00 AM	3:00 PM
5	Peloton Bike	9221	1/3/25	8	1/23/24	7:00 AM	10:00 AM

Case 2. Equipment ID DOES NOT EXIST

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 2
Enter Equipment ID to remove: 2223
Equipment piece not found
Equipment with ID 2223 not found.
```

Option (1) Equipment Manager; Option (1) Create Equipment by ID

Demonstration: If option 3 is selected (Search Equipment): you will be prompted to Information about your Equipment Piece you would like to create; if there's a matching ID it will prompt with a message saying "Equipment with this ID already Exists", Same if ID is Empty and If ID is not a set of Integers.

For Regular Equipment: Number, Name of Equipment, Equipment ID, Purchase Date of Equipment, Average LifeSpan of Equipment.

For Specialized Equipment: Number, Name of Equipment, Equipment ID, Purchase Date of Equipment, Average LifeSpan of Equipment, When that piece of Equipment is Available During that day, Start Time (AM/PM) to End Time (AM/PM)

Case 1. Adding Regular Equipment

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 1
Do you want to create (1) Regular Equipment or (2) Special Equipment: 1
Enter Name for Equipment: Jump Rope
Enter Id of Equipment: 1234
Enter date of purchase for Equipment: 1/23/22
Enter Average LifeSpan of Equipment in years: 4
Equipment piece not found
Equipment was added Successfully
Regular equipment added successfully.
```

Case 1.1 Adding Specialized Equipment

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 1
Do you want to create (1) Regular Equipment or (2) Special Equipment: 2
Enter Name for Equipment: Automatic WeightBench
Enter Id of Equipment: 4567
Enter date of purchase for Equipment: 1/23/24
Enter Average LifeSpan of Equipment in years: 6
Equipment piece not found
Enter Availability Date (e.g., 12/23/2025): 12/23/25
Enter Start Time (e.g., 9:00 AM): 10:00 AM
Enter End Time (e.g., 11:00 AM): 12:00 PM
Equipment was added Successfully
Specialized equipment added successfully.
```

Case 1.2 (5) Displaying Equipment to check if Equipment was Added

===== REGULAR EQUIPMENT =====

No	Name	ID	Purchased	Life(Yrs)
1	Threadmill	1000	12/24/25	3
2	Threadmill	1100	12/24/25	3
3	Threadmill	1110	12/24/25	3
4	Weight Bench	2000	1/19/25	3
5	Weight Bench	2100	1/21/25	3
6	Weight Bench	2110	1/20/25	3
7	Regular Bike	3000	1/4/24	3
8	Regular Bike	3100	6/12/25	3
9	Regular Bike	3110	7/12/23	3
10	Jump Rope	1234	1/23/22	4

===== SPECIALIZED EQUIPMENT =====

No	Name	ID	Purchased	Life(Yrs)	Available Date	Start Time	End Time
1	Tanning Bed	9000	12/1/25	8	1/23/24	8:00 AM	12:00 PM
2	UnderWaterThreadmill	9100	12/1/25	8	1/23/24	10:00 AM	2:00 PM
3	Ski Simulator	9110	12/1/25	8	1/23/24	7:00 AM	10:00 AM
4	Golf Simulator	9111	12/1/25	8	1/23/24	10:00 AM	3:00 PM
5	Boat Rowing Simulator	9211	12/1/25	8	1/23/24	10:00 AM	3:00 PM
6	Peloton Bike	9221	1/3/25	8	1/23/24	7:00 AM	10:00 AM
7	Automatic WeightBench	4567	1/23/24	6	12/23/25	10:00 AM	12:00 PM

Case 2. leaving ID space blank, Inputting Anything other than a set of Integers, and using an ID that is already in use.

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 1
Do you want to create (1) Regular Equipment or (2) Special Equipment: 1
Enter Name for Equipment: Pull up Bar
Enter Id of Equipment (4 Integers):
ERROR: Equipment ID cannot be empty.
Enter Id of Equipment (4 Integers): PULL
ERROR: Equipment ID must be a number.
Enter Id of Equipment (4 Integers): 1000
Enter date of purchase for Equipment: 1/21/21
Enter Average LifeSpan of Equipment in years: 9
ERROR: Equipment with this ID already exists.
```

Option (1) Equipment Manager; Option (6) Return to Main Menu

Demonstration: Selecting Option 6 will return the user to the Main Menu.

```
===== Equipment Management Menu =====
1. Create New Equipment
2. Remove Equipment
3. Search Equipment by ID
4. Update Equipment Information
5. Display All Equipment
6. Return to Main Menu
Enter your choice: 6

-----
===== H.I.I.T LABS Gym Main Menu =====
-----
1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit
Enter your choice: |
```

Member Manager

Option (2) Member Management Demonstration: If you select option 2 in Main Menu, you will be prompted with the Member SubMenu in which you are able to:

1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu

Option (2) Member Manager; Option (6) Display Members Demonstration:

If Option 6 is selected, the following Members information will be displayed: MemberID, Name, Age, Pin, Email, Membership tier (organized from cheapest to most expensive)

```
===== Member Management Menu =====
```

1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu

Enter your choice: 6

ID	Name	Age	PIN	Email	Membership
1000	Angel	19	1234	noreply@gmail.com	Basic
1111	Ezekiel	56	6969	xekiel129@gmail.com	Basic
1200	Junes	34	2109	sjaejl@gmail.com	Basic
1310	Veronica	21	2221	luan123@gmail.com	Basic
1311	Jesus	18	3331	jesusbbl12@gmail.com	Basic
1110	Selene	45	6767	seleny30@gmail.com	Premium
1300	Lupe	27	1111	ddmegadu120doc@gmail.com	Premium
1100	Antwain	23	1267	antwain12@gmail.com	Gold
1210	Cruz	23	7272	dsajecruz@gmail.com	Gold
1211	Juan	76	9999	wizardlyguy67@gmail.com	Gold

Option (2) Member Manager; Option (7) Check In Members Demonstration:

If Option 7 is selected, the user will be prompted to enter the Members ID and Check in Pin, Program will return a message stating "MemberName has checked in Successfully" and return.

-If the member ID does not exist it will display the message "Member was not Found" and return.

-if a member exists but enters the wrong pin it will display the message "Incorrect PIN. Cannot check in" and return

Case 1: Member exist, Member enters right pin, Member is Checked in

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 7
Enter Member ID: 1000
Enter your PIN: 1234
Angel has checked in successfully.
```

We can confirm that member is checked in if they are displayed in

(8) Show checked in members

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 8
=== Checked-In Members ===
ID          Name          Age  PIN      Email          Membership
-----
1000        Angel          19   1234     noreply@gmail.com  Basic
```

Case 2. Members with entered ID do not exist.

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 7
Enter Member ID: 4302
Member was not found.
Member not found.
```

Case 2.1 Member exists but enters the wrong pin.

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 7
Enter Member ID: 1000
Enter your PIN: 1224
Incorrect PIN. Cannot check in.
```

Option (1) Member Manager; Option (8) Show Checked In Members

Demonstration: If Option 8 is selected, The program will display the information of those members who are checked in and ONLY those members who are checked in.

Example: Member checked in with ID and Pin so Member is checked in

```
===== Member Management Menu =====
```

1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu

Enter your choice: 8

```
=== Checked-In Members ===
```

ID	Name	Age	PIN	Email	Membership
1000	Angel	19	1234	noreply@gmail.com	Basic

Option (2) Member Manager; Option (1) add new Member Demonstration:

If Option 1 is selected, The program will ask for the members, name , age , Member ID, Check in pin, PhoneNum, Email, Membership type, then it will ask for payment information, Card last 4 digits, Exp Date, CVV, a message will appear saying payment was added for member. IF ANY OF THE FIELDS ARE NOT Filled, Program will keep asking until the section is filled.

Case 1. Member added Successfully

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 1
Enter Member Name: Karry
Enter Member Age: 21
Enter Member ID (4 Digits): 1020
Member was not found.
Enter Check-in PIN (4 digits): 1235
Enter Phone Number: 234-2143
Enter Email: example@hotmail.com
Select Membership Type:
1. Basic
2. Premium
3. Gold
Enter choice: 1

Member added successfully!

Enter payment information for Karry
Enter card number (last 4 digits): 1235
Enter expiration date (MM/YY): 12/23
Enter CW: 123
Payment added for Member Karry
Card Ending in 1235
```

Case 1.1 Check if Member is In members List (6) Display All Members

ID	Name	Age	PIN	Email	Membership
1000	Angel	19	1234	noreply@gmail.com	Basic
1111	Ezekiel	56	6969	xekiel129@gmail.com	Basic
1200	Junes	34	2109	sjaejl@gmail.com	Basic
1310	Veronica	21	2221	luan123@gmail.com	Basic
1311	Jesus	18	3331	jesusbbl12@gmail.com	Basic
1020	Karry	21	1235	example@hotmail.com	Basic
1110	Selene	45	6767	seleny30@gmail.com	Premium
1300	Lupe	27	1111	ddmegadu120doc@gmail.com	Premium
1100	Antwain	23	1267	antwain12@gmail.com	Gold
1210	Cruz	23	7272	dsajecruz@gmail.com	Gold
1211	Juan	76	9999	wizardlyguy67@gmail.com	Gold

Case 2. Program Keeps Prompting until section is filled

```
Enter your choice: 1
Enter Member Name:
Name is required.
Enter Member Name: Andrew
Enter Member Age:
Invalid age. Please enter a number.
Enter Member Age: 23
Enter Member ID (4 Digits): 1000
A member with this ID already exists.
Enter Member ID (4 Digits): 1265
Member was not found.
Enter Check-in PIN (4 digits): 1266
Enter Phone Number: 834-3932
Enter Email:
Email is required.
Enter Email: DrewBrew@yahoo.com
Select Membership Type:
1. Basic
2. Premium
3. Gold
Enter choice: 2

Member added successfully!

Enter payment information for Andrew
Enter card number (last 4 digits):
Card number must be exactly 4 digits.
Enter card number (last 4 digits): 2378
Enter expiration date (MM/YY): 12/30
Enter CW: 156

Payment added for Member Andrew
Card Ending in 2378
```

Option (2) Member Manager; Option (2) Remove Member Demonstration:

If Option 2 is selected, the user will be prompted to enter the Members ID, and member will be removed, if member id does not exist then there will be a message saying so.

Display List to see Members (Dummy Data)

ID	Name	Age	PIN	Email	Membership
1000	Angel	19	1234	noreply@gmail.com	Basic
1111	Ezekiel	56	6969	xekiel129@gmail.com	Basic
1200	Junes	34	2109	sjaejl@gmail.com	Basic
1310	Veronica	21	2221	luan123@gmail.com	Basic
1311	Jesus	18	3331	jesusbbl12@gmail.com	Basic
1110	Selene	45	6767	seleny30@gmail.com	Premium
1300	Lupe	27	1111	ddmegadu120doc@gmail.com	Premium
1100	Antwain	23	1267	antwain12@gmail.com	Gold
1210	Cruz	23	7272	dsajecruz@gmail.com	Gold
1211	Juan	76	9999	wizardlyguy67@gmail.com	Gold

Select Choice 2, Remove Member with member ID

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 2
Enter Member ID to remove: 1000
Member:Angel was removed successfully.
```

Display List to Check if Member was removed
(Member with ID:1000 was removed)

ID	Name	Age	PIN	Email	Membership
1111	Ezekiel	56	6969	xekiel129@gmail.com	Basic
1200	Junes	34	2109	sjaejl@gmail.com	Basic
1310	Veronica	21	2221	luan123@gmail.com	Basic
1311	Jesus	18	3331	jesusbbl12@gmail.com	Basic
1110	Selene	45	6767	seleny30@gmail.com	Premium
1300	Lupe	27	1111	ddmegadu120doc@gmail.com	Premium
1100	Antwain	23	1267	antwain12@gmail.com	Gold
1210	Cruz	23	7272	dsajecruz@gmail.com	Gold
1211	Juan	76	9999	wizardlyguy67@gmail.com	Gold

Case 2. Member with Member ID: 4565 cannot be removed because Member does not exist.

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 2
Enter Member ID to remove: 4565
Member not Found.
```

Option (2) Member Manager; Option (3) Search Member Demonstration:

If Option 3 is selected, the user will be prompted to enter the Members ID, and member information will be shown, if the member does not exist the program will display a message saying so.

Search Member with ID 1111 (Existing Member)

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 3
Enter Member ID to search: 1111
Member Name: Ezekiel| Member Age: 56
Member Id: 1111
Contact Information :
Email: xekiel129@gmail.com
Phone Number: 656-1681
Membership Type: Basic
```

Search for a non-Existing Member with random Member ID

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 3
Enter Member ID to search: 1245
Member with ID 1245 not found.
```

Option (2) Member Manager; Option (4) Update Member Info

Demonstration: If Option 4 is selected, the user will be prompted to enter the Members ID, to find members whose information needs to be modified, User will be prompted to enter a: new name, new age, new phone number, new email, and new membership type.

-If a member wants to keep some of his information the same he can simply just enter and the program will keep the old information.

-New information will be displayed with (6) Display all Members.

Display members (Modifying Member Angel ID:1000)

ID	Name	Age	PIN	Email	Membership
1000	Angel	19	1234	noreply@gmail.com	Basic
1111	Ezekiel	56	6969	xekiel129@gmail.com	Basic
1200	Junes	34	2109	sjaejl@gmail.com	Basic
1310	Veronica	21	2221	luan123@gmail.com	Basic
1311	Jesus	18	3331	jesusbbl12@gmail.com	Basic
1110	Selene	45	6767	seleny30@gmail.com	Premium
1300	Lupe	27	1111	ddmegadu120doc@gmail.com	Premium
1100	Antwain	23	1267	antwain12@gmail.com	Gold
1210	Cruz	23	7272	dsajecruz@gmail.com	Gold
1211	Juan	76	9999	wizardlyguy67@gmail.com	Gold

Make Changes Accordingly

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 4
Enter Member ID to update: 1000
Updating information for Angel
Enter new name (or press Enter to keep current):
Enter new age (or press Enter to keep current): 20
Enter new phone number (or press Enter to keep current):
Enter new email (or press Enter to keep current): angelitoc@yahoo.org
Select new membership type (or press Enter to keep current):
1. Basic
2. Premium
3. Gold
3
Member information updated successfully.
```

Check for changes with (6) Display all Members

ID	Name	Age	PIN	Email	Membership
1111	Ezekiel	56	6969	xekiel129@gmail.com	Basic
1200	Junes	34	2109	sjaejl@gmail.com	Basic
1310	Veronica	21	2221	luan123@gmail.com	Basic
1311	Jesus	18	3331	jesusbbl12@gmail.com	Basic
1110	Selene	45	6767	seleny30@gmail.com	Premium
1300	Lupe	27	1111	ddmegadu120doc@gmail.com	Premium
1000	Angel	20	1234	angelitoc@yahoo.org	Gold
1100	Antwain	23	1267	antwain12@gmail.com	Gold
1210	Cruz	23	7272	dsajecruz@gmail.com	Gold
1211	Juan	76	9999	wizardlyguy67@gmail.com	Gold

If a Invalid Member ID is entered, the program will display a message and return.

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 4
Enter Member ID to update: 2556
Member not found.
```

Option (2) Member Manager; Option (5) Update Member Pin

Demonstration: If Option 5 is selected, the user will be prompted to put in a valid Members ID, then enter the old pin and then the new pin. If the member ID is not valid, a message will be displayed, if the current pin does not match the old pin a message will be displayed.

Member with ID:1000 changed pin from 1234 to 2469

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 5
Enter Member ID to update PIN: 1000
Enter your old PIN (4 Digits): 1234
Enter your new PIN: 2469
PIN updated successfully.
```

Invalid Member ID put in ID: 2034

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 5
Enter Member ID to update PIN: 2034
Member not found.
```

Member with ID 1000 changed pin to 2469, so old pin will not work
Old Pin: 1234

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 5
Enter Member ID to update PIN: 1000
Enter your old PIN (4 Digits): 1234
Incorrect PIN. PIN not changed.
```

Option (2) Member Manager; Option (9) Return to Main Menu

Demonstration: Selecting Option 9 will return the user to the Main Menu.

```
===== Member Management Menu =====
1. Add New Member
2. Remove Member
3. Search Member by ID
4. Update Member Information
5. Update Member PIN
6. Display All Members
7. Check-in Member
8. Show Checked-in Members
9. Return to Main Menu
Enter your choice: 9

-----
===== H.I.I.T LABS Gym Main Menu =====
-----
1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit
Enter your choice: █
```

Equipment Manager

Option (3) Payment Management Demonstration: If you select option 3 in Main Menu, you will be prompted with the Payment SubMenu in which you are able to:

1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu

Option (3) Payment Manager; Option (1) Pay Balance Demonstration:

If Option 1 is selected, the user will be prompted to enter the Members ID, Then enter the Month and year they would like to pay, after submitting ID and M/Y, The Member will receive a receipt with all their name, membership type, month paid, amount paid (based upon subscribed membership), and card used to pay, will display a message saying payment successful.

Entering Valid Member ID, date

```
===== Payment Management Menu =====
1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu
Enter your choice: 1
Enter Member ID: 1000
Enter month to pay for (e.g., January or 02/2025): 2/2025
```

Returns Payment Receipt

```
===== PAYMENT RECEIPT =====
Member: Angel
Membership Type: Basic
Month Paid: 2/2025
Amount Paid: $25.0
Card Used: **** 1234
Payment Status: SUCCESS
=====
```

If Member ID is invalid, Member not found

```
===== Payment Management Menu =====
1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu
Enter your choice: 1
Enter Member ID: 1237
Member not Found
```

Option (3) Payment Manager; Option (2) Search Payment Information

Demonstration: If Option 2 is selected, the user will be prompted to enter the Members ID, program will return: Payment Info for "Member", Card Ending: ####, Exp Date, ##/##, CVV. ###. if member ID is invalid it will display a message saying "No payment info found".

Displaying Payment Info for Members with ID:1000.

```
===== Payment Management Menu =====
1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu
Enter your choice: 2
Enter Member ID: 1000

Payment Info for Angel
Card Ending: 1234
Exp Date: 12/25
CWV: 111
```

Member ID is invalid so it displays "No payment info found".

```
===== Payment Management Menu =====
1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu
Enter your choice: 2
Enter Member ID: 2930
No payment info found.
```

Option (3) Payment Manager; Option (3) Update Payment Information

Demonstration: If Option 3 is selected, the user will be prompted to enter the Members ID to change payment, member will be asked for new card number, new exp date of card, and new CVV, message will show that payment was updated successful.

If Member ID is invalid it displays "Payment not found".

Valid Member ID, so Payment is updated

```
===== Payment Management Menu =====
1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu
Enter your choice: 3
Enter Member ID to update payment: 1000
Updating payment for Angel
Enter new card number (last 4 digits): 3459
Enter new expiration date (MM/YY): 12/05
Enter new CW: 324
Payment updated successfully.
```

Member ID is invalid so it displays "Payment not found"

```
===== Payment Management Menu =====
1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu
Enter your choice: 3
Enter Member ID to update payment: 1345
Payment not found.
```

Option (3) Payment Manager; Option (4) Display all Payments

Demonstration: If Option 4 is selected, the program will display the payment information for all Members.

```
===== Payment Management Menu =====
1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu
Enter your choice: 4
```

MemberID	Name	Card Ending	Exp Date	CW
1000	Angel	1234	12/25	111
1100	Antwain	5678	11/24	222
1110	Selene	9012	10/26	333
1111	Ezekiel	4321	01/27	444
1200	Junes	8765	08/23	555
1210	Cruz	9999	09/25	666
1211	Juan	2222	03/24	777
1300	Lupe	3333	04/26	888
1310	Veronica	4444	06/27	999
1311	Jesus	5555	07/28	123

Option (3) Payment Manager; Option (5) Return to Main Menu

Demonstration: Selecting Option 5 will return the user to the Main Menu.

Returns to Main Menu

```
===== Payment Management Menu =====
1. Pay Balance
2. Search Payment Information
3. Update Payment Information
4. Display All Payments
5. Return to Main Menu
Enter your choice: 5

-----
===== H.I.I.T LABS Gym Main Menu =====
-----
1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit
Enter your choice: █
```

Equipment Manager

Option (4) Trainer Management Demonstration: If you select option 4 in Main Menu, you will be prompted with the Trainer SubMenu in which you are able to:

1. Add Trainer
 2. Remove Trainer
 3. Modify Trainer
 4. Display All Trainers
 5. Search for Trainer (ID)
 6. Return to Main Menu
- Enter your choice:

Option (4) Trainer Manager; Option (1) Add Trainer Demonstration:

If Option 1 is selected, User is prompted to enter new a name for the trainer that is gonna be added as well as; Trainer ID, Trainer age, trainer phone number, Trainer Specialty, if everything is correct new trainer will be added.If trainer Id is already in List, program will return message "Trainer already Exists"

Trainer Mike Tyson is Added

```
===== Trainer Management Menu =====
1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu
Enter your choice: 1
Enter Trainer Name: Mike
Enter Trainer Age: 67
Enter Phone Contact: 234-5845
Enter Trainer ID: 1234
Enter Trainer Specialty: Boxing
Trainer added successfully.
```

We can check if trainer has been added correctly with (4) Trainer List

```
===== Trainer List =====
ID: 5000, Name: Sophie, Age: 21, Phone: 678-1112, Rank: General Staff, Specialty: Zumba
ID: 5100, Name: Antonio, Age: 26, Phone: 676-9807, Rank: General Staff, Specialty: Cardio
ID: 5110, Name: Julie, Age: 23, Phone: 458-1674, Rank: General Staff, Specialty: Body Sculpting
ID: 5111, Name: Sanchez, Age: 28, Phone: 128-1133, Rank: General Staff, Specialty: Martial Arts
ID: 5200, Name: Louis, Age: 32, Phone: 199-1123, Rank: General Staff, Specialty: Calisthetics
ID: 1234, Name: Mike, Age: 67, Phone: 234-5845, Rank: General Staff, Specialty: Boxing
```

ID:1234 added Mike

If trainer Id is already in List,
program will return message "Trainer already Exists"

```
===== Trainer Management Menu =====
1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu
Enter your choice: 1
Enter Trainer Name: Philipe
Enter Trainer Age: 35
Enter Phone Contact: 234-3456
Enter Trainer ID: 1234
Enter Trainer Specialty: swimming
Trainer already exists.
```

Option (4) Trainer Manager; Option (2) Remove Trainer Demonstration:

If Option 2 is selected, the user is prompted to enter Trainer ID, to remove a specific trainer, trainer will be removed and a message confirming the removal will be shown.

If trainer Id is not linked to any trainer a message saying "Trainer not found" will be displayed.

Trainer list before removal

```
===== Trainer List =====
ID: 5000, Name: Sophie, Age: 21, Phone: 678-1112, Rank: General Staff, Specialty: Zumba
ID: 5100, Name: Antonio, Age: 26, Phone: 676-9807, Rank: General Staff, Specialty: Cardio
ID: 5110, Name: Julie, Age: 23, Phone: 458-1674, Rank: General Staff, Specialty: Body Sculpting
ID: 5111, Name: Sanchez, Age: 28, Phone: 128-1133, Rank: General Staff, Specialty: Martial Arts
ID: 5200, Name: Louis, Age: 32, Phone: 199-1123, Rank: General Staff, Specialty: Calisthetics
```

Removed Trainer with ID: 5000

```
===== Trainer Management Menu =====
1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu
Enter your choice: 2
Enter Trainer ID to remove: 5000
Trainer removed successfully.
```

Trainer list after removal(Trainer with ID:5000 gone)

```
===== Trainer List =====
ID: 5100, Name: Antonio, Age: 26, Phone: 676-9807, Rank: General Staff, Specialty: Cardio
ID: 5110, Name: Julie, Age: 23, Phone: 458-1674, Rank: General Staff, Specialty: Body Sculpting
ID: 5111, Name: Sanchez, Age: 28, Phone: 128-1133, Rank: General Staff, Specialty: Martial Arts
ID: 5200, Name: Louis, Age: 32, Phone: 199-1123, Rank: General Staff, Specialty: Calisthetics
```

trainer Id is not linked to any trainer
Message "Trainer not found" is displayed

```
===== Trainer Management Menu =====
1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu
Enter your choice: 2
Enter Trainer ID to remove: 1245
Trainer not found.
```

Option (4) Trainer Manager; Option (3) Modify Trainer Demonstration:

If Option 3 is selected, the user is prompted to enter Trainer ID, to modify a specific trainer, Trainer information will be shown and can be modified or stay the same if needed (press enter to keep the same), if Trainer ID is invalid, the program will display: "trainer not found."

Trainer list before changes

```
===== Trainer List =====
ID: 5000, Name: Sophie, Age: 21, Phone: 678-1112, Rank: General Staff, Specialty: Zumba
ID: 5100, Name: Antonio, Age: 26, Phone: 676-9807, Rank: General Staff, Specialty: Cardio
ID: 5110, Name: Julie, Age: 23, Phone: 458-1674, Rank: General Staff, Specialty: Body Sculpting
ID: 5111, Name: Sanchez, Age: 28, Phone: 128-1133, Rank: General Staff, Specialty: Martial Arts
ID: 5200, Name: Louis, Age: 32, Phone: 199-1123, Rank: General Staff, Specialty: Calisthetics
```

Changed only phone and Specialty

```
===== Trainer Management Menu =====
```

1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu

Enter your choice: 3

Enter Trainer ID to update: 5000

Leave field EMPTY to keep current value.

New Name (Sophie):

New Age (21):

New Phone (678-1112): 782-2354

New Specialty (Zumba): Aerobics

Trainer list after changes

Trainer: Sophie changed phone number and Specialty as shown

```
===== Trainer List =====
```

ID: 5000, Name: Sophie, Age: 21, Phone: 782-2354, Rank: General Staff, Specialty: Aerobics

ID: 5100, Name: Antonio, Age: 26, Phone: 676-9807, Rank: General Staff, Specialty: Cardio

ID: 5110, Name: Julie, Age: 23, Phone: 458-1674, Rank: General Staff, Specialty: Body Sculpting

ID: 5111, Name: Sanchez, Age: 28, Phone: 128-1133, Rank: General Staff, Specialty: Martial Arts

ID: 5200, Name: Louis, Age: 32, Phone: 199-1123, Rank: General Staff, Specialty: Calisthenics

Invalid Trainer ID displays "trainer not found"

```
===== Trainer Management Menu =====
```

1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu

Enter your choice: 3

Enter Trainer ID to update: 2325

Trainer not found.

Option (4) Trainer Manager; Option (4) Display Trainers Demonstration:

If Option 4 is selected, The program will display all Trainers.

Display all trainers and their information.

```
===== Trainer Management Menu =====
1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu
Enter your choice: 4

===== Trainer List =====
ID: 5000, Name: Sophie, Age: 21, Phone: 678-1112, Rank: General Staff, Specialty: Zumba
ID: 5100, Name: Antonio, Age: 26, Phone: 676-9807, Rank: General Staff, Specialty: Cardio
ID: 5110, Name: Julie, Age: 23, Phone: 458-1674, Rank: General Staff, Specialty: Body Sculpting
ID: 5111, Name: Sanchez, Age: 28, Phone: 128-1133, Rank: General Staff, Specialty: Martial Arts
ID: 5200, Name: Louis, Age: 32, Phone: 199-1123, Rank: General Staff, Specialty: Calisthetics
```

Option (4) Trainer Manager; Option (5) Search for Trainer

Demonstration: If Option 5 is selected, the user is prompted to enter Trainer ID, program will return info of said Trainer, If Trainer Id is Invalid a message will be shown saying "Trainer with #### not found"

Search for Trainer with ID: 5000, display info

```
===== Trainer Management Menu =====
1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu
Enter your choice: 5
Enter Trainer ID to search: 5000
Trainer Found:
ID: 5000, Name: Sophie, Age: 21, Phone: 678-1112, Rank: General Staff, Specialty: Zumba
```

Trainer Id is Invalid so
message "Trainer with #### not found" is shown

```
===== Trainer Management Menu =====
1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu
Enter your choice: 5
Enter Trainer ID to search: 3294
Trainer with ID 3294 not found.
```

Option (3) Trainer Manager; Option (6) Return to Main Menu

Demonstration: Selecting Option 6 will return the user to the Main Menu.

```
===== Trainer Management Menu =====
1. Add Trainer
2. Remove Trainer
3. Modify Trainer
4. Display All Trainers
5. Search for Trainer (ID)
6. Return to Main Menu
Enter your choice: 6

-----
===== H.I.I.T LABS Gym Main Menu =====
-----
1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit
Enter your choice: █
```

Fitness Class Manager

Option (5) Fitness Management Demonstration: If you select option 5 in Main Menu, you will be prompted with the Payment SubMenu in which you are able to:

1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu

Option (5) Fitness Class Manager: Option (1) add Fitness Class Demonstration:

If Option 1 is selected, the user will be prompted to enter the name of the class, the date, the time, Class Description, Trainer ID, If the trainer is not specified, a trainer will be assigned randomly, as long as the date and time are not the same.

Louis auto Assigned

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 1
Enter Class Name: Aerobics
Enter Class Date (e.g., 12/25/2025): 12/3/24
Enter Class Time (e.g., 5:00 PM): 3:00 PM
Enter Class Description: High Intensity Training
Enter Trainer ID (or press Enter to auto assign):
Auto-assigned Trainer: Louis
Fitness Class was added Successfully
Fitness class added successfully.
```

Trainer ID:5000 Sophie added as trainer for class

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 1
Enter Class Name: Yoga
Enter Class Date (e.g., 12/25/2025): 12/4/23
Enter Class Time (e.g., 5:00 PM): 12:00 pm
Enter Class Description: Stretching and Relaxing Exercises, Calming
Enter Trainer ID (or press Enter to auto assign): 5000
Fitness Class was added Successfully
Fitness class added successfully.
```

Option (5) Fitness Class Manager; Option (2) Remove Fitness Class
Demonstration:

If Option 2 is selected, the user will be prompted to enter the name of the class they want to remove, it will show a message saying it was removed and it will be removed. If class does not exist A message saying "Class not Found" will be shown

If class does not exist so "Class not Found" is shown

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 2
Enter Class Name to remove: Boxing
Class not found.
```

If class exists it will show class was removed

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 2
Enter Class Name to remove: Zumba
Class was removed
```

Option (5) Fitness Class Manager; Option (3) Search Fitness Class

Demonstration: If Option 3 is selected, the user will be prompted to enter the name of the class, if the name is in List of classes, it will return information such as Class, Date, Trainer, date and Time.

Cardio Class is Valid,

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 3
Enter Class Name: Cardio
Class: Cardio
Trainer: Antonio
Date: 1/23/24
Description: Your respiratory system will start working harder as you begin to breathe faster and more deeply
Enrolled Members: none
```

Yoga Class is invalid because it does not exist.

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 3
Enter Class Name: Yoga
Class not found.
```

Option (5) Fitness Class Manager; Option (4) Show Class Schedule

Demonstration: If Option 4 is selected, the program will return the Fitness class schedule.

(Dummy Data) Pre-loaded classes are shown when called

```
===== Fitness Class Schedule =====
Class: Zumba
Trainer: Sophie
Date: 1/23/24
Time: 12:00 PM
Description: a popular exercise program, integrates Latin music with choreographed dance movements
Enrolled Members: none
-----
Class: Cardio
Trainer: Antonio
Date: 1/23/24
Time: 3:00 PM
Description: Your respiratory system will start working harder as you begin to breathe faster and more deeply
Enrolled Members: none
-----
Class: Martial Arts
Trainer: Sanchez
Date: 1/23/24
Time: 7:00 AM
Description: combat readiness applications; to non-violent exercising, ceremonial and competition; physical, m
ental, and spiritual development
Enrolled Members: none
-----
```

Option (5) Fitness Class Manager; Option (5) Sign up Members for Class

Demonstration: If Option 5 is selected, the program will ask the user to enter a member ID and name of class, If the member qualifies for the class (e.g. Gold or Premium Member) they will be added to the class and be shown in the (4)Class Schedule.

Member with ID: 1000 has the basic membership so they cannot sign up

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 5
Enter Member ID: 1000
Only Gold and Premium members can sign up for classes.
```

Member with ID:1100 is a premium member
So they can enroll in the classes

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 5
Enter Member ID: 1100
Enter Class Name to join: Cardio
Antwain has been enrolled in Cardio
```

When (4)Class Schedule is called you can see the member who is signed up and the membership type they have.

```
===== Fitness Class Schedule =====
Class: Zumba
Trainer: Sophie
Date: 1/23/24
Time: 12:00 PM
Description: a popular exercise program, integrates Latin music with choreographed dance movements
Enrolled Members: none
-----
Class: Cardio
Trainer: Antonio
Date: 1/23/24
Time: 3:00 PM
Description: Your respiratory system will start working harder as you begin to breathe faster and more deeply
Enrolled Members:
- Antwoin (Premium)
-----
Class: Martial Arts
Trainer: Sanchez
Date: 1/23/24
Time: 7:00 AM
Description: combat readiness applications; to non-violent exercising, ceremonial and competition; physical, mental, and spiritual development
Enrolled Members: none
-----
```

Option (5) Fitness Class Manager; Option (6) Cancel Class

Demonstration: If Option 6 is selected, the program will ask the user to enter the name of class to cancel, the program will notify the enrolled members and class will be removed.

Class was cancelled so its removed and Members are notified

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 6
Enter Class Name to cancel: Martial Arts

Notifying enrolled members...
-----
No members enrolled.
Class was removed.

The class "Martial Arts" has been successfully cancelled.
```

In this example you can see that the member signed up is notified That the class was cancelled.

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 6
Enter Class Name to cancel: Cardio

Notifying enrolled members...
-----
- Antwoin
Class was removed.

The class "Cardio" has been successfully cancelled.
```

Option (5) Fitness Class Manager; Option (7) Show Trainer Schedule

Demonstration: If Option 7 is selected, the user is asked to enter the ID of the Trainer they would like to see the schedule for. If trainer id is invalid program will return the message "Trainer not Found", If Trainer Id is valid but no classes are assigned to the trainer, it will show "no classes assigned to this trainer".

Schedule of Trainer with ID:5000

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 7
Enter Trainer ID: 5000

===== Trainer Schedule =====
Class: Zumba
Trainer: Sophie
Date: 1/23/24
Time: 12:00 PM
Description: a popular exercise program, integrates Latin music with choreographed dance movements
Enrolled Members: none
-----
```

Trainer ID valid, but no classes assigned

```
===== Fitness Class Menu =====
1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu
Choose an option: 7
Enter Trainer ID: 5110

===== Trainer Schedule =====
No classes assigned to this trainer.
```

Trainer ID invalid so "Trainer not Found" is displayed

```
===== Fitness Class Menu =====
```

1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu

Choose an option: 7

Enter Trainer ID: 4823

Trainer not found.

Option (5) Fitness Classes Manager; Option (8) Return to Main Menu

Demonstration: Selecting Option 8 will return the user to the Main Menu.

```
===== Fitness Class Menu =====
```

1. Add Fitness Class
2. Remove Fitness Class
3. Search Fitness Class
4. Show Class Schedule
5. Sign Member Up for Class
6. Cancel Class
7. Show Trainer Schedule
8. Return to Main Menu

Choose an option: 8

```
-----  
===== H.I.I.T LABS Gym Main Menu =====  
-----
```

1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit

Enter your choice: █

Staff Class Manager

Option (6) Staff Management Demonstration: If you select option 6 in Main Menu, you will be prompted with the Staff SubMenu in which you are able to:

1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu

Option (6) Staff Manager; Option (1) add Staff Demonstration:

Selecting Option 1 will prompt the user to assign; Staff name, Staff age, Phone number, staff id, rank of staff(general, assistant Manager, Manager) Staff successfully added message will be shown. If staff ID selected is already in use there will be a message, stating Staff already Exist"

Adding new staff to staff

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 1
Enter Staff Name: Jeremy
Enter Staff Age: 35
Enter Phone Contact: 372-2345
Enter Staff ID: 1234
Enter Rank (1 = General Staff, 2 = Assistant Manager, 3 = Manager): 1
Staff Member Added Successfully
Staff successfully added.
```

Staff Id is already in use so staff already exists.

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 1
Enter Staff Name: Jules
Enter Staff Age: 34
Enter Phone Contact: 273-3821
Enter Staff ID: 1000
Enter Rank (1 = General Staff, 2 = Assistant Manager, 3 = Manager): 1
Staff already exists.
```

Option (6) Staff Manager; Option (2) Remove Staff Demonstration:

Selecting Option 2 will ask the user for the ID of the member that needs to be removed, will show a message confirming the Member has been removed. If id is invalid program will show: could not remove staff, ID not Found

Before: In list

```
===== STAFF LIST =====
Name      Age  Phone      ID      Rank
-----
John      29   1122-1234   1200    Manager
Lusero    28   1122-1234   1100    Assistant Manager
Carlos    21   1122-1234   1210    Assistant Manager
Bruno     19   1122-1234   1211    Assistant Manager
Joseph    23   1122-1234   1000    General Staff
Juanita   39   1122-1234   1110    General Staff
Anita     20   1122-1234   1111    General Staff
Washington 67   1122-1234   1300    General Staff
=====
```

Staff Member with ID:1300 has been Removed

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 2
Enter Staff ID to remove: 1300
Staff Member has been removed
```

After: No longer in list

Name	Age	Phone	ID	Rank
John	29	1122-1234	1200	Manager
Lusero	28	1122-1234	1100	Assistant Manager
Carlos	21	1122-1234	1210	Assistant Manager
Bruno	19	1122-1234	1211	Assistant Manager
Joseph	23	1122-1234	1000	General Staff
Juanita	39	1122-1234	1110	General Staff
Anita	20	1122-1234	1111	General Staff

If id is invalid program will show: could not remove staff, ID not Found

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 2
Enter Staff ID to remove: 1246
Could not remove staff. ID not found.
```

Option (6) Staff Manager; Option (3) Modify Staff Demonstration:

Selecting Option 3 will ask the user for the ID of the member whose information needs to be modified, User has the option to change name, phone number, rank, etc. or simply leave it the same and keep some of the old data. If Staff ID is invalid Program will show " staff not found, No update performed"

Only Changed Rank, all other info stays the same

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 3
Enter Staff ID to update: 1000

--- Leave any field blank to keep its current value ---
Current Name: Joseph
Enter new Staff Name:
Current Age: 23
Enter new Staff Age:
Current Phone Contact: 1122-1234
Enter new Phone Contact:
Current Rank: 1 (1=General, 2=Assistant Manager, 3=Manager)
Enter new Rank: 2

Staff updated successfully!
```

Info is the same, rank went up

```
===== STAFF LIST =====
Name           Age  Phone      ID      Rank
-----
John           29   1122-1234   1200    Manager
Joseph         23   1122-1234   1000    Assistant Manager
Lusero         28   1122-1234   1100    Assistant Manager
Carlos         21   1122-1234   1210    Assistant Manager
Bruno          19   1122-1234   1211    Assistant Manager
Juanita        39   1122-1234   1110    General Staff
Anita          20   1122-1234   1111    General Staff
Washington     67   1122-1234   1300    General Staff
=====
```

Invalid Staff ID

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 3
Enter Staff ID to update: 2934
Staff not found. No update performed.
```

Option (6) Staff Manager; Option (4) Display Staff Demonstration:
Selecting Option 4 will make the program display the Staff list in order of ranks.

===== STAFF LIST =====				
Name	Age	Phone	ID	Rank

John	29	1122-1234	1200	Manager
Joseph	23	1122-1234	1000	Assistant Manager
Lusero	28	1122-1234	1100	Assistant Manager
Carlos	21	1122-1234	1210	Assistant Manager
Bruno	19	1122-1234	1211	Assistant Manager
Juanita	39	1122-1234	1110	General Staff
Anita	20	1122-1234	1111	General Staff
Washington	67	1122-1234	1300	General Staff
=====				

Option (6) Staff Manager; Option (5) Check-in Staff Demonstration:
Selecting Option 5 will ask for the Staff's ID to check them in, and will show a message stating staff has been checked in. If Staff ID is Invalid, program will return a message saying "Staff ID not found"

Checked in Staff Member with ID 1200

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 5
Enter Staff ID to Check In: 1200
Staff checked in.
```

Checked in Staff Member with ID 1111

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 5
Enter Staff ID to Check In: 1111
Staff checked in.
```

Invalid Staff ID

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 5
Enter Staff ID to Check In: 3468
Staff ID not found.
```

Option (6) Staff Manager; Option (6) Display Checked In Staff

Demonstration: Selecting Option 6 will make the program display the Checked In Staff list, and ONLY the Checked in Staff.

Checked in Staff ID 1200 and 1111

I use the method (6)Display Checked-In staff and they are shown

```
=====
                CHECKED-IN STAFF
=====
```

Name	Age	Phone	ID	Rank
John	29	1122-1234	1200	Manager
Anita	20	1122-1234	1111	General Staff

```
=====
```

Option (6) Staff Manager; Option (7) Return to Main Menu

Demonstration: Selecting Option 7 will return the user to the Main Menu.

```
===== Staff Management Menu =====
1. Add Staff
2. Remove Staff
3. Modify Staff Information
4. Display All Staff
5. Check-In Staff
6. Display Checked-In Staff
7. Return to Main Menu
Enter your choice: 7

-----
===== H.I.I.T LABS Gym Main Menu =====
-----
1. Equipment Management
2. Members Management
3. Payment Management
4. Trainer Management
5. Fitness Class Management
6. Employee Management (Staff)
7. Exit
Enter your choice: █
```

