Gym Manager Test Cases

1. **testValidAuthentication** – Tests logging into the system using valid credentials
   1. Input: Valid username and passowrd
   2. Output: Response (Success)
2. **testInvalidAuthentication** – ests logging into the system using invalid credentials
   1. Input: Invalid username and password
   2. Output: Response (Fail)
3. **testInvalidAuthenticationCaseSensitivityPassword** – Tests invalid login attempt using invalid password based on case sensitivity
   1. Input: Invalid username and password
   2. Output: Response ( Fail)
4. **testInvalidAuthenticationCaseSensitivityUsername** – Tests invalid login attempt using invalid username based on case sensitivity
   1. Input: Invalid username and password
   2. Output: Response (Fail)
5. **testInvalidAuthentication\_Blanks** – Tests invalid login using blank strings
   1. Input: Invalid username and password
   2. Output: Response (Fail)
6. **testGetHealthInsuranceProviders** – Tests the getting of HealthInsuranceProviders
   1. Input: none
   2. Output: List<HealthInsuranceProviders>
7. **testHireTrainer** – Tests the adding of a new Trainer to the system
   1. Input: Trainer object
   2. Output: Reponse
8. **testModifyTrainer** – Tests the modification of a Trainer object
   1. Input: Trainer Object
   2. Output: Response
9. **testRegisterCustomer** – Tests the registering of a new Customer to the system
   1. Input: Customer Object
   2. Output: Response
10. **testGetTrainers** – Tests the getting of all Trainers in the system
    1. Input: none
    2. Output: List<Trainer>
11. **testGetCustomers** – Tests the getting of all customers in the system
    1. Input: none
    2. Output: List<Customer>
12. **testSearchCustomers** – Tests searching for a customer within the system
    1. Input: String searchTerm
    2. Output: List<Customer>
13. **testAddEquipmentItem** – Tests adding an equipmentItem to the system
    1. Input: EquipmentItem
    2. Output: Response (Success)
14. **testAddExerciseSet** – Tests adding an ExerciseSet to the system
    1. Input: ExerciseSet
    2. Output: Response (Success)
15. **testAddExercise** – Tests adding an Exercise to the system
    1. Input: Exercise
    2. Output: Response (Success)
16. **testAddWorkoutRoutine** – Tests adding a WorkoutRoutine to the system
    1. Input: WorkoutRoutine
    2. Output: Response (Success)
17. **testAssignWorkoutRoutine** – Tests assigning a WorkoutRoutine to a customer
    1. Input: WorkoutRoutine, Customer
    2. Output: Response (Success)
18. **testSearchWorkoutRoutines** – Tests searching for a WorkoutRoutine within the system
    1. Input: String searchTerm
    2. Output: List<WorkoutRoutine>
19. **testSearchTrainers** – Tests searching for a Trainer within the system
    1. Input: String searchTerm
    2. Output: List<Trainer>
20. **testSearchEquipmentItem** – Tests searching for an Equipment Item within the system
    1. Input: String searchTerm
    2. Output: List<EquipmentItem>