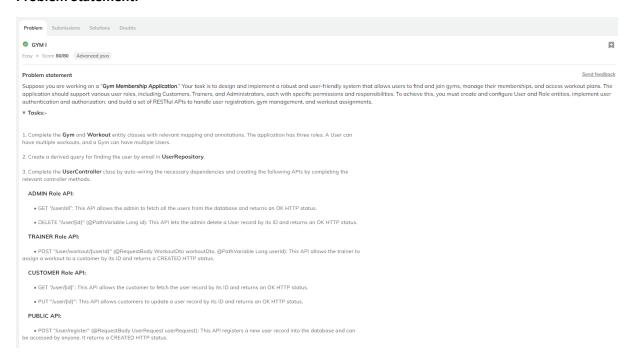
GYM APPLICATION I

Problem Statement:



4. Complete the **GymController** class by auto-wiring the necessary dependencies and creating the following APIs by completing the relevant controller methods.

ADMIN Role API:

- GET "/gym/{id}" (@Path/Variable Long id): This API allows the user to fetch the tax record by its ID and returns an OK HTTP status.
- GET "/gym/all": This API allows the admin to fetch all the gym records and returns an OK HTTP status.
- PUT "/gym/{id}" (@RequestBody GymDto gymDto, @PathVariable Long id): This API allows admins to update a gym record by its ID and returns an OK HTTP status.
 - DELETE "/gym/{id}" (@PathVariable Long id): This API lets admins delete a gym record by its ID and returns an OK HTTP status.
- POST "/gym/addMember" (@RequestParam Long userId, @RequestParam Long gymId): This API allows the admin to add users to a particular gym by passing userId and gymId as requestParam. It returns a CREATED HTTP status.
- DELETE "/user/deleteMember" (@PathParam("userId") Long userId, @PathParam("gymId") Long gymId): This API allows the admin to delete users to a particular gym by passing userId and gymId as path params. It returns an OK HTTP status.
 - POST /gym/create: This API allows the admin to create a gym record and returns a CREATED HTTP status.
- 5. Complete the UserService and GymService class methods by adding relevant business logic corresponding to their respective APIs.
- 6. Complete the **GymDto**, **UserRequest and WorkoutDto** classes by adding Lombok annotations and relevant attributes as mentioned in the template.
- 7. Complete the **CustomUserDetailsService** class, which implements the UserDetailsService interface by auto-wiring the necessary dependencies and overriding the interface methods.
- 8. Complete the custom exception classes **GymNotFoundException** and **UserNotFoundException** by extending them as a Runtime exception class and creating a constructor with a string as a parameter. These exceptions should be called whenever a gym or user with a particular ID is not found.
- 9. Complete the **GymSecurityConfig** class by creating a **"filterChain"** bean, a **"passwordEncoder"** bean and an **"authenticationManager"** bean.
- 10. Test the application using Postman.