# **Requirements**

The requirements of the project are divided into three parts.

**Members need to:**

1. View the schedules with who is coaching them at any time from the website

2. View coach profiles from a list, and from the schedule details.

3. Create an account so that we can email them of upcoming specials

4. Enrol in a scheduled item before the scheduled date once they have logged in

Members should not see anything else!

**Coaches need to be able to log in and:**

1. Create/Edit a profile with a brief biography

2. See their upcoming schedules

3. See their enrolled members for each schedule

Coaches should not see anything else!

**Admin needs to be able to log in and:**

1. Create schedules with event-name, date, location and coach

2. Match coaches with schedules

3. View all membership in a list

Admin should see the lot.

# **Architecture/Design**

What I intend to do it

1. Use role-based authorize to control users’ available pages
2. Use the role of user as a condition to direct the home page they are supposed to see
3. When admin create new schedule, admin does not need to type the coach name manually, and admin can select coach names from a drop down list.
4. In the navigation bar on the top, the link of schedules and coaches should be always there. Users either login or not can view the pages.
5. Use the coach’s email to filter out the what the coming schedules of the coach are.
6. Use the id of schedule in the database to find who enroll the schedule in the ScheduleMember database.
7. Use the model of usermanager to get all users data for admin to view all users.

# **Technical**

What I did

1. I use the method ”[Authorize(Roles = " ")]” to check the role of current login user.
2. In HomeController, “if (User.IsInRole(" "))” has been used to direct the home page to user based on their role, so different role users will see different pages.
3. In the CreateSchedule page, I use the a ViewModel to shape entities from multiple data models into a single object in order to load the both data from coach and schedule in a single View page. So, when the admin creates the new schedule, there is a drop down list of all coach names that admin can select.
4. In layout page, the link of schedules and coaches are putted, and I use the schedule and coach controller separately, also, I remove the CRUD functions from the controller. As a result, nobody can change the data from the pages.
5. I use GetUserName(User) to get the email of user and compare to the coach email in schedule database and then return the data back to view and use “foreach” to list out all schedules.
6. In the MySchedule page of coach, pass the valuable of schedule id

(asp-action="Showenrolmembers" asp-route-id="@item.Id)

into the control in order to find the members who enrol in the id of schedule

“var members = \_context.ScheduleMembers.Where(m => m.ScheduleId == id)” and then return the data back to the view page. “return View("Showenrolmembers", members)”

1. In admin controller, I use “var users = \_userManager.Users; return View(users);” to pass the data to the view. As a result, in the view page, it is easy to list out all users by using foreach loop.

**User Documentation**

## How to use it

Here are several tips to use this web page.

As a user,

1. You can view the available schedules and coaches at any time if you are not login in.
2. You can register an account in order to enrol any schedule.

As a member,

You have two pages in your homepage.

1. You can enrol any schedule in the page “Enrol Schedule”.
2. Once you register a schedule. You can cancel/delete it in your “my enrolment” page.

As a coach,

You have two pages in your homepage.

1. You can see your own coming schedules in the page “My coming schedule”.
2. If you want to see that who has enroled your schedule, you can go to “my coming schedule” and click “show enrol members”.
3. If you want to edit your coach profile, you can go to page “see my biography” to edit it.

As a admin,

You have two pages in your homepage.

1. You can create/edit/delete schedule in the page “schedule list” page.
2. You can see all members who has registered in this website.