


Group 2

CS341 YMCA Enrollment Portal



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Assumptions

For this demo, we've made the following assumptions

1. Every user of the site will have an account. Accounts can be created by end users.
2. Each account is linked with exactly one email address.
3. Users have an email address and are able to receive mail in order to register accounts or reset their passwords.
4. Users can be paying members of the YMCA, or non-members from the general public.
5. Admin users can create classes and edit their details and schedule, as well as view and manage accounts.
6. Apart from the admin privileges, admin accounts are like normal user accounts and can perform the same actions.
7. An admin will not maliciously delete another admin's account, even though they technically could at this stage.
8. Classes can require zero or more prerequisite classes, checked against our internal enrollment history.
9. Classes can be configured to allow enrollment for Y members only, or for non-members too.
10. The class fee for non-members is separate from that of members in order to allow charging them a different rate.
11. Likewise, the open enrollment periods for classes can be set to different intervals for members vs. non-members.
12. The first occurrence of a class will be at a date and time that falls after the end of its enrollment windows.
13. When creating or editing a class, prices will be entered as either an integer dollar amount (e.g. 39), or with two decimal places for cents (e.g. 39.99).

Technologies



Staging

- SQL Server Developer 2019
- ASP.NET Core 6
- .NET 6.0.2, C# 10
- Microsoft Blazor (reactive UI)
- Visual Studio 2022
- Visual Studio Code, CLI
- Windows/MacOS/Linux



Production

- SQL Server Express 2019
- ASP.NET Core 6
- .NET 6.0.2, C# 10
- Microsoft Blazor (reactive UI)
- Microsoft Internet Information Services (IIS)
- Gmail SMTP
- Windows 10 Professional on a dual-Xeon webserver

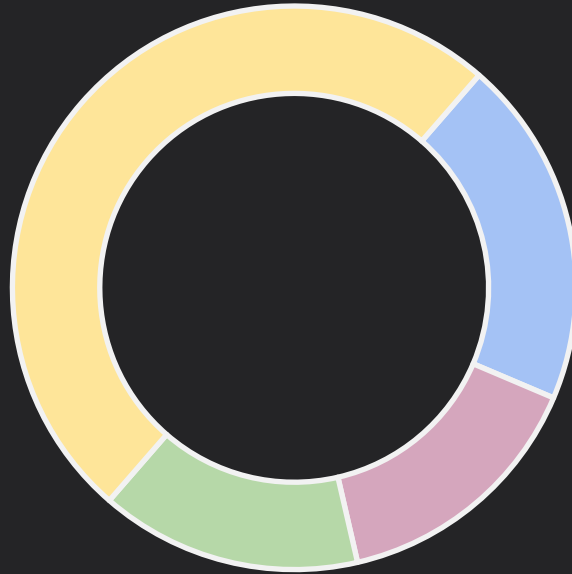
Division of Work

Zach

- Hosting/project/SCM setup
- Frontend/backend
- Class/account SQL
- Class editing/viewing
- Login, registration
- Session management
- Product planning

Christoph

- Documents and reports
- Product planning



Matthew

- Frontend/backend
- Supplemental SQL
- Account editing/viewing
- Product Planning

Tyler

- Documents and reports
- Product planning