Views

ErrorViewModel

+RequestId : string

+ShowRequestId : bool

Index

+Index() : Task<IActionResult>

Create

+Create() : IActionResult

+Create([Bind("Id,CurrentSemester,WeeksInSemester,StartDate,Code,Name,Credits,
WeeklyClassHours")] Module @module) : Task<IActionResult>

Chart

+Chart() : IActionResult

Delete

+Delete(id : int) : Task<IActionResult>

+DeleteConfirmed(id : int) : Task<IActionResult>

Details

+Details(id : int) : Task<IActionResult>

Edit

+Edit(id : int) : Task<IActionResult>

+Edit([Bind("Id,CurrentSemester,WeeksInSemester,
StartDate,Code,Name,Credits,
WeeklyClassHours")] Module @module) :
Task<IActionResult>

Error

+Error() : IActionResult

<<DataCalculationLibrary2>>

Models

Module

+Id : int

+CurrentSemester : string

+WeeksInSemester : int

+StartDate : string

+Code : string

+Credits : int

+WeeklyClassHours : int

+WeeklySelfStudyHours : int

+WeeklySelf|StudyHoursCompleted: int

+RemainingWeeklySelfStudyHours : int

+SelfStudyDateCompleted : string

+UserId : string

ModuleController

-_logger : ILogger<ModuleController>

-_context : ScheduleBlenderWebAppContext

-_userManager : UserManager<ApplicationUser>

-userId : string

+ModuleController(logger : ILogger<ModuleController>,
context : ScheduleBlenderWebAppContext, userManager :
UserManager<ApplicationUser>)

+Index() : Task<IActionResult>

+Details(id : int) : Task<IActionResult>

+Create() : IActionResult

+Create([Bind("Id,CurrentSemester,WeeksInSemester,
StartDate,Code,Name,Credits,
WeeklyClassHours")] Module @module) :
Task<IActionResult>

+Edit(id : int) : Task<IActionResult>

+Edit([Bind("Id,CurrentSemester,WeeksInSemester,
StartDate,Code,Name,Credits,
WeeklyClassHours")] Module @module) :
Task<IActionResult>

+Delete(id : int) : Task<IActionResult>

+DeleteConfirmed(id : int) : Task<IActionResult>

-ModuleExists(id : int) : bool

+Error() : IActionResult

-CalculateWeeklySelfStudyHours(credits : int,
weeksInSemester : int, weeklyClassHours : int) : int

+GetChartData() : List<Object>

+Chart() : IActionResult

-populateLocalUserIdVariable() : void

ScheduleBlenderWebAppContext

+Modules : DbSet<Module>

+ScheduleBlenderWebAppContext(DbContextOptions
<ScheduleBlenderWebAppContext> options)

#OnModelCreating(ModelBuilder builder) : void

Program

+Main(string [ ]) : void

ApplicationUser

+DisplayName : string

IdentityUser

+IdentityUser()

+IdentityUser(userName : string)

Changes to Class Library:
- Removed PasswordHasher Class
- Removed User Class
- Remove all methods from Module Class (moved to corresponding Controller)
- Added Max character length for each string field in Module model Class
- Added a folder named Models to keep all class library models
- Added Module Class to Models folder
- Added ErrorViewModel Class for error handling

This uml class diagram was inspired by Sampath, taken
from StackOverflow. Available at: c# - MVC UML class
diagram - Stack Overflow.