Namespace AttendanceSystem.Api

Classes

AuthenticationService

FunctionExecutorHostBuilderExtensions

Extension methods to enable registration of the custom IFunctionExecutor implementation generated for the current worker.

Roles

Services

SwaggerSetup

WorkerHostBuilderFunctionMetadataProviderExtension

Extension methods to enable registration of the custom IFunctionMetadataProvider implementation generated for the current worker.

Class AuthenticationService

Namespace: AttendanceSystem.Api

Assembly: AttendanceSystem.Api.dll

```
public class AuthenticationService
```

Inheritance

object ← AuthenticationService

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

AuthenticationService(ILogger<AuthenticationService>, JsonWebTokenHandler)

```
public AuthenticationService(ILogger<AuthenticationService> logger,
JsonWebTokenHandler jwtHandler)
```

Parameters

`logger` ILogger<AuthenticationService>

`jwtHandler` JsonWebTokenHandler

Methods

GetRoles(TokenValidationResult)

```
public List<string> GetRoles(TokenValidationResult jwt)
```

Parameters

`jwt` TokenValidationResult

Returns

List<string>

IsAuthenticated(TokenValidationResult, IEnumerable<string>)

```
public bool IsAuthenticated(TokenValidationResult jwt, IEnumerable<string>
requiredRoles)
```

Parameters

`jwt` TokenValidationResult

`requiredRoles` IEnumerable<string>

Returns

bool

Class FunctionExecutorHostBuilder Extensions

Namespace: AttendanceSystem.Api

Assembly: AttendanceSystem.Api.dll

Extension methods to enable registration of the custom IFunctionExecutor implementation generated for the current worker.

```
public static class FunctionExecutorHostBuilderExtensions
```

Inheritance

object ← FunctionExecutorHostBuilderExtensions

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

ConfigureGeneratedFunctionExecutor(IHostBuilder)

Configures an optimized function executor to the invocation pipeline.

```
public static IHostBuilder ConfigureGeneratedFunctionExecutor(this
IHostBuilder builder)
```

Parameters

`builder` IHostBuilder

Returns

IHostBuilder

Class Roles

Namespace: AttendanceSystem.Api

Assembly: AttendanceSystem.Api.dll

```
public static class Roles
```

Inheritance

object ← Roles

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Fields

Admin

```
public const string Admin = "role.admin"
```

Field Value

string

AllowAll

```
public static string[] AllowAll
```

Field Value

string[]

AllowElevated

```
public static string[] AllowElevated
```

Field Value

string[]

Student

```
public const string Student = "role.student"
```

Field Value

string

Teacher

```
public const string Teacher = "role.teacher"
```

Field Value

string

Class Services

Namespace: AttendanceSystem.Api

Assembly: AttendanceSystem.Api.dll

```
public static class Services
```

Inheritance

object ← Services

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

AddServices(IServiceCollection)

```
public static IServiceCollection AddServices(this IServiceCollection sp)
```

Parameters

`sp` IServiceCollection

Returns

IServiceCollection

Class SwaggerSetup

Namespace: AttendanceSystem.Api

Assembly: AttendanceSystem.Api.dll

```
public static class SwaggerSetup
```

Inheritance

object ← SwaggerSetup

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

AddSwagger(IServiceCollection)

```
public static IServiceCollection AddSwagger(this IServiceCollection services)
```

Parameters

`services` IServiceCollection

Returns

IServiceCollection

Class WorkerHostBuilderFunctionMetadataProviderExtension

Namespace: AttendanceSystem.Api

Assembly: AttendanceSystem.Api.dll

Extension methods to enable registration of the custom IFunctionMetadataProvider implementation generated for the current worker.

```
public static class WorkerHostBuilderFunctionMetadataProviderExtension
```

Inheritance

object ← WorkerHostBuilderFunctionMetadataProviderExtension

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

ConfigureGeneratedFunctionMetadataProvider(IHostBuilder)

Adds the GeneratedFunctionMetadataProvider to the service collection. During initialization, the worker will return generated function metadata instead of relying on the Azure Functions host for function indexing.

```
public static IHostBuilder ConfigureGeneratedFunctionMetadataProvider(this
IHostBuilder builder)
```

Parameters

`builder` IHostBuilder

Returns

IHostBuilder

Namespace AttendanceSystem.Api.Contracts

Classes

CreateCourseContract

CreateSessionContract

CreateUserContract

EnrollUserContract

ExtendedAttendanceRecord

GetAttendanceListContract

UpdateAttendanceContract

UpdateAttendanceContractItem

Enums

UserType

Class CreateCourseContract

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
public class CreateCourseContract
```

Inheritance

object ← CreateCourseContract

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

DepartmentId

```
public required string DepartmentId { get; set; }
```

Property Value

string

Id

```
public required string Id { get; set; }
```

Property Value

string

Name

```
public required string Name { get; set; }
```

Property Value

string

TeacherIds

```
public required List<string> TeacherIds { get; set; }
```

Property Value

List<string>

Class CreateSessionContract

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
public class CreateSessionContract
```

Inheritance

object ← CreateSessionContract

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

EndDate

```
public required DateTime EndDate { get; set; }
```

Property Value

DateTime

Participants

```
public required List<string> Participants { get; set; }
```

Property Value

List<string>

StartDate

```
public required DateTime StartDate { get; set; }
```

Property Value

DateTime

Class CreateUserContract

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
public class CreateUserContract
```

Inheritance

object ← CreateUserContract

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Email

```
public required string Email { get; set; }
```

Property Value

string

Id

```
public required string Id { get; set; }
```

Property Value

string

Name

```
public required string Name { get; set; }
```

Property Value

string

Type

```
public required UserType Type { get; set; }
```

Property Value

UserType

Class EnrollUserContract

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
public class EnrollUserContract
```

Inheritance

object ← EnrollUserContract

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

UserId

```
public required string UserId { get; set; }
```

Property Value

string

Class ExtendedAttendanceRecord

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
public record ExtendedAttendanceRecord : AttendanceRecord,
IEquatable<AttendanceRecord>, IEquatable<ExtendedAttendanceRecord>
```

Inheritance

object ← AttendanceRecord ← ExtendedAttendanceRecord

Implements

IEquatable<AttendanceRecord>, IEquatable<ExtendedAttendanceRecord>

Inherited Members

AttendanceRecord.SessionId , AttendanceRecord.StudentId , AttendanceRecord.StudentSubmission , AttendanceRecord.TeacherSubmission , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

ExtendedAttendanceRecord()

```
public ExtendedAttendanceRecord()
```

ExtendedAttendanceRecord(AttendanceRecord)

```
public ExtendedAttendanceRecord(AttendanceRecord attendanceRecord)
```

Parameters

`attendanceRecord` AttendanceRecord

Properties

StudentName

```
public string StudentName { get; set; }
```

Property Value

string

Class GetAttendanceListContract

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
public class GetAttendanceListContract
```

Inheritance

object ← GetAttendanceListContract

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Course

```
public required Course Course { get; set; }
```

Property Value

Course

EndTime

```
public required DateTime EndTime { get; set; }
```

Property Value

DateTime

Id

```
public Guid Id { get; init; }
```

Property Value

Guid

Register

```
public required ICollection<ExtendedAttendanceRecord> Register { get; set; }
```

Property Value

ICollection<ExtendedAttendanceRecord>

StartTime

```
public required DateTime StartTime { get; set; }
```

Property Value

DateTime

Class UpdateAttendanceContract

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
public class UpdateAttendanceContract
```

Inheritance

object ← UpdateAttendanceContract

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Attendance

```
public required List<UpdateAttendanceContractItem> Attendance { get; set; }
```

Property Value

List<UpdateAttendanceContractItem>

Class UpdateAttendanceContractItem

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
public class UpdateAttendanceContractItem
```

Inheritance

object ← UpdateAttendanceContractItem

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Kind

```
[JsonConverter(typeof(JsonStringEnumConverter<AttendanceKind>))]
public required AttendanceKind Kind { get; init; }
```

Property Value

AttendanceKind

UserId

```
public required string? UserId { get; init; }
```

Property Value

string

Enum UserType

Namespace: AttendanceSystem.Api.Contracts

Assembly: AttendanceSystem.Api.dll

```
[JsonConverter(typeof(JsonStringEnumConverter<UserType>))]
public enum UserType
```

Fields

`Administrator = 2`

`Student = 0`

`Teacher = 1`

Namespace AttendanceSystem.Api.Controllers

Classes

BaseController

CoursesController

FeedController

SessionsController

SwaggerController

Represents the controller that serves the swagger documents

UsersController

Class BaseController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

```
public class BaseController
```

Inheritance

object ← BaseController

Derived

CoursesController, FeedController, SessionsController, UsersController

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

BaseController(AuthenticationService, UserService)

```
public BaseController(AuthenticationService authenticationService,
UserService userService)
```

Parameters

`authenticationService` AuthenticationService

`userService` UserService

Fields

_userService

```
protected readonly UserService _userService
```

Field Value

UserService

Methods

AssertAuthentication(FunctionContext, IEnumerable<string>)

```
protected Task AssertAuthentication(FunctionContext context,
IEnumerable<string> allowedRoles)
```

Parameters

`context` FunctionContext

`allowedRoles` IEnumerable<string>

Returns

Task

GetUser(FunctionContext)

```
protected Task<User> GetUser(FunctionContext context)
```

Parameters

`context` FunctionContext

Returns

Task<User>

GetUserId(FunctionContext)

```
protected string GetUserId(FunctionContext context)
```

Parameters

`context` FunctionContext

Returns

string

GetUserRoles(FunctionContext)

```
protected List<string> GetUserRoles(FunctionContext context)
```

Parameters

`context` FunctionContext

Returns

List<string>

Class CoursesController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

```
public class CoursesController : BaseController
```

Inheritance

object ← BaseController ← CoursesController

Inherited Members

BaseController._userService , BaseController.GetUserId(FunctionContext) , BaseController.GetUserRoles(FunctionContext) , BaseController.GetUser(FunctionContext) , BaseController.AssertAuthentication(FunctionContext, IEnumerable<string>) , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

CoursesController(ILogger<CoursesController>, CourseService, AuthenticationService, UserService)

```
public CoursesController(ILogger<CoursesController> logger, CourseService
courseService, AuthenticationService authenticationService, UserService userService)
```

Parameters

`logger` ILogger<CoursesController>

`courseService` CourseService

`authenticationService` AuthenticationService

`userService` UserService

Methods

ConfigureCourse(HttpRequest, FunctionContext, string, CourseAlteration)

```
[Function("CoursesController-ConfigureCourse")]
public Task<IActionResult> ConfigureCourse(HttpRequest req, FunctionContext ctx,
string courseId, CourseAlteration alteration)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`courseId` string

`alteration` CourseAlteration

Returns

Task<IActionResult>

CreateNewCourse(HttpRequest, FunctionContext, CreateCourseContract)

```
[Function("CoursesController-CreateNewCourse")]
public Task<IActionResult> CreateNewCourse(HttpRequest req, FunctionContext ctx,
CreateCourseContract contract)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`contract` CreateCourseContract

Returns

Task<IActionResult>

DeleteCourse(HttpRequest, FunctionContext, string)

```
[Function("CoursesController-DeleteCourse")]
public Task<IActionResult> DeleteCourse(HttpRequest req, FunctionContext ctx,
string courseId)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`courseId` string

Returns

Task<IActionResult>

EnrollUser(HttpRequest, FunctionContext, string, EnrollUserContract)

```
[Function("CoursesController-EnrollUser")]
public Task<IActionResult> EnrollUser(HttpRequest req, FunctionContext ctx, string
courseId, EnrollUserContract contract)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`courseId` string

`contract` EnrollUserContract

Returns

Task<IActionResult>

GetAllCourses(HttpRequest, FunctionContext)

```
[Function("CoursesController-GetAllCourses")]
public Task<IActionResult> GetAllCourses(HttpRequest req, FunctionContext ctx)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

Returns

Task<IActionResult>

GetCourse(HttpRequest, FunctionContext, string)

```
[Function("CoursesController-GetCourse")]
public Task<IActionResult> GetCourse(HttpRequest req, FunctionContext ctx,
string courseId)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`courseId` string

Returns

Task<IActionResult>

Class FeedController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

```
public class FeedController : BaseController
```

Inheritance

object ← BaseController ← FeedController

Inherited Members

BaseController._userService , BaseController.GetUserId(FunctionContext) , BaseController.GetUserRoles(FunctionContext) , BaseController.GetUser(FunctionContext) , BaseController.AssertAuthentication(FunctionContext, IEnumerable<string>) , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

FeedController(ILogger<SessionsController>, AttendanceService, AuthenticationService, UserService)

```
public FeedController(ILogger<SessionsController> logger, AttendanceService
attendanceService, AuthenticationService authenticationService,
UserService userService)
```

Parameters

`logger` ILogger<SessionsController>

`attendanceService` AttendanceService

`authenticationService` AuthenticationService

`userService` UserService

Methods

GetUpcomingSessions(HttpRequest, FunctionContext)

Gets the upcoming session for the logged-in user

```
[Function("FeedController-GetUpcomingSessions")]
[ProducesResponseType<List<Session>>(200)]
public Task<IActionResult> GetUpcomingSessions(HttpRequest req, FunctionContext ctx)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

Returns

Task<IActionResult>

The upcoming session which the user needs to attend.

Class SessionsController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

```
public class SessionsController : BaseController
```

Inheritance

object ← BaseController ← SessionsController

Inherited Members

BaseController._userService , BaseController.GetUserId(FunctionContext) , BaseController.GetUserRoles(FunctionContext) , BaseController.GetUser(FunctionContext) , BaseController.AssertAuthentication(FunctionContext, IEnumerable<string>) , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

SessionsController(ILogger<SessionsController>, AttendanceService, AuthenticationService, UserService, CourseService)

```
public SessionsController(ILogger<SessionsController> logger, AttendanceService
attendanceService, AuthenticationService authenticationService, UserService
userService, CourseService courseService)
```

Parameters

`logger` ILogger<SessionsController>

`attendanceService` AttendanceService

`authenticationService` AuthenticationService

`userService` UserService

`courseService` CourseService

Methods

CreateNewSession(HttpRequest, FunctionContext, string, CreateSessionContract)

```
[Function("SessionsController-CreateNewSession")]
public Task<IActionResult> CreateNewSession(HttpRequest req, FunctionContext ctx,
string courseId, CreateSessionContract contract)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`courseId` string

`contract` CreateSessionContract

Returns

Task<IActionResult>

DeleteSession(HttpRequest, FunctionContext, string, Guid)

```
[Function("SessionsController-DeleteSession")]
public Task<IActionResult> DeleteSession(HttpRequest req, FunctionContext ctx,
string courseId, Guid sessionId)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`courseId` string

`sessionId` Guid

Returns

Task<IActionResult>

GetAllSessions(HttpRequest, FunctionContext, string)

```
[Function("SessionsController-GetAllSessions")]
public Task<IActionResult> GetAllSessions(HttpRequest req, FunctionContext ctx,
string courseId)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`courseId` string

Returns

Task<IActionResult>

GetSessionInfo(HttpRequest, FunctionContext, string, Guid)

Gets the information for a specific session.

```
[Function("SessionsController-GetSessionInfo")]
[ProducesResponseType<GetAttendanceListContract>(200)]
public Task<IActionResult> GetSessionInfo(HttpRequest req, FunctionContext ctx,
string courseId, Guid sessionId)
```

Parameters

`req` HttpRequest

The http request of the function.

`ctx` FunctionContext

The context of the functions.

`courseId` string

The id of the course.

`sessionId` Guid

The id of the session.

Returns

Task<IActionResult>

The session information.

Remarks

When the user is a teacher, the register is available. When the user is a student, only their own attendance is available.

SetAttendance(HttpRequest, FunctionContext, string, Guid, UpdateAttendanceContract)

```
[Function("SessionsController-SetAttendance")]
public Task<IActionResult> SetAttendance(HttpRequest req, FunctionContext ctx,
string courseId, Guid sessionId, UpdateAttendanceContract contract)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`courseId` string

`sessionId` Guid

`contract` UpdateAttendanceContract

Returns

Task<IActionResult>

Class SwaggerController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

Represents the controller that serves the swagger documents

```
public class SwaggerController
```

Inheritance

object ← SwaggerController

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

SwaggerController(ILogger<SwaggerController>, ISwashBuckleClient)

Represents the controller that serves the swagger documents

```
public SwaggerController(ILogger<SwaggerController> logger,
ISwashBuckleClient swashBuckleClient)
```

Parameters

`logger` ILogger<SwaggerController>

`swashBuckleClient` ISwashBuckleClient

Methods

SwaggerJson(HttpRequestData)

```
[SwaggerIgnore]
[Function("Swagger-Json")]
public Task<HttpResponseData> SwaggerJson(HttpRequestData req)
```

Parameters

`req` HttpRequestData

Returns

Task<HttpResponseData>

SwaggerOAuth2Redirect(HttpRequestData)

This is only needed for OAuth2 client. This redirecting document is normally served as a static content. Functions don't provide this out of the box, so we serve it here. Don't forget to set OAuth2RedirectPath configuration option to reflect this route.

```
[SwaggerIgnore]
[Function("Swagger-OAuth2Redirect")]
public Task<HttpResponseData> SwaggerOAuth2Redirect(HttpRequestData req)
```

Parameters

`req` HttpRequestData

The request given by the azure functions

Returns

Task<HttpResponseData>

An OAuth2 Redirect Response

SwaggerUi(HttpRequestData)

```
[SwaggerIgnore]
[Function("Swagger-Ui")]
```

```
public Task<HttpResponseData> SwaggerUi(HttpRequestData req)
```

Parameters

`req` HttpRequestData

Returns

Task<HttpResponseData>

Class UsersController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

```
public class UsersController : BaseController
```

Inheritance

object ← BaseController ← UsersController

Inherited Members

BaseController._userService , BaseController.GetUserId(FunctionContext) , BaseController.GetUserRoles(FunctionContext) , BaseController.GetUser(FunctionContext) , BaseController.AssertAuthentication(FunctionContext, IEnumerable<string>) , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

UsersController(ILogger<UsersController>, UserService, AuthenticationService)

```
public UsersController(ILogger<UsersController> logger, UserService userService,
AuthenticationService authenticationService)
```

Parameters

`logger` ILogger<UsersController>

`userService` UserService

`authenticationService` AuthenticationService

Methods

ConfigureUser(HttpRequest, FunctionContext, string, UserAlteration)

```
[Function("UsersController-ConfigureUser")]
public Task<IActionResult> ConfigureUser(HttpRequest req, FunctionContext ctx,
string userId, UserAlteration alteration)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`userId` string

`alteration` UserAlteration

Returns

Task<IActionResult>

CreateUser(HttpRequest, FunctionContext, CreateUserContract)

```
[Function("UsersController-CreateUser")]
public Task<IActionResult> CreateUser(HttpRequest req, FunctionContext ctx,
CreateUserContract contract)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`contract` CreateUserContract

Returns

Task<IActionResult>

DeleteUser(HttpRequest, FunctionContext, string)

```
[Function("UsersController-DeleteUser")]
public Task<IActionResult> DeleteUser(HttpRequest req, FunctionContext ctx,
string userId)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`userId` string

Returns

Task<IActionResult>

GetAllUsers(HttpRequest, FunctionContext)

```
[Function("UsersController-GetAllUsers")]
public Task<IActionResult> GetAllUsers(HttpRequest req, FunctionContext ctx)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

Returns

Task<IActionResult>

GetUser(HttpRequest, FunctionContext, string)

```
[Function("UsersController-GetUser")]
public Task<IActionResult> GetUser(HttpRequest req, FunctionContext ctx,
string userId)
```

Parameters

`req` HttpRequest

`ctx` FunctionContext

`userId` string

Returns

Task<IActionResult>

Namespace AttendanceSystem.Api.Middleware

Classes

AuthenticationHandler

ExceptionToErrorCodeHandler

Class AuthenticationHandler

Namespace: AttendanceSystem.Api.Middleware

Assembly: AttendanceSystem.Api.dll

```
public class AuthenticationHandler : IFunctionsWorkerMiddleware
```

Inheritance

object ← AuthenticationHandler

Implements

IFunctionsWorkerMiddleware

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

AuthenticationHandler(ILogger<AuthenticationHandler>, JsonWebTokenHandler)

```
public AuthenticationHandler(ILogger<AuthenticationHandler> logger,
JsonWebTokenHandler jwtHandler)
```

Parameters

`logger` ILogger<AuthenticationHandler>

`jwtHandler` JsonWebTokenHandler

Methods

Invoke(FunctionContext, FunctionExecutionDelegate)

Invokes the middleware.

```
public Task Invoke(FunctionContext context, FunctionExecutionDelegate next)
```

Parameters

`context` FunctionContext

The FunctionContext for the current invocation.

`next` FunctionExecutionDelegate

The next middleware in the pipeline.

Returns

Task

A Task that represents the asynchronous invocation.

Class ExceptionToErrorCodeHandler

Namespace: AttendanceSystem.Api.Middleware

Assembly: AttendanceSystem.Api.dll

```
public class ExceptionToErrorCodeHandler : IFunctionsWorkerMiddleware
```

Inheritance

object ← ExceptionToErrorCodeHandler

Implements

IFunctionsWorkerMiddleware

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

ExceptionToErrorCodeHandler(ILogger<ExceptionToErrorCodeHandler>)

```
public ExceptionToErrorCodeHandler(ILogger<ExceptionToErrorCodeHandler> logger)
```

Parameters

`logger` ILogger<ExceptionToErrorCodeHandler>

Methods

Invoke(FunctionContext, FunctionExecutionDelegate)

Invokes the middleware.

```
public Task Invoke(FunctionContext context, FunctionExecutionDelegate next)
```

Parameters

`context` FunctionContext

The FunctionContext for the current invocation.

`next` FunctionExecutionDelegate

The next middleware in the pipeline.

Returns

Task

A Task that represents the asynchronous invocation.

Namespace AttendanceSystem.Data

Classes

CoursesContext

Class CoursesContext

Namespace: AttendanceSystem.Data

Assembly: AttendanceSystem.Data.dll

```
public class CoursesContext : DbContext, IInfrastructure<IServiceProvider>,
IDbContextDependencies, IDbSetCache, IDbContextPoolable, IResettableService,
IDisposable, IAsyncDisposable
```

Inheritance

object ← DbContext ← CoursesContext

Implements

IInfrastructure<IServiceProvider>, IDbContextDependencies, IDbSetCache, IDbContextPoolable, IResettableService, IDisposable, IAsyncDisposable

Inherited Members

DbContext.Set<TEntity>() , DbContext.Set<TEntity>(string) , DbContext.OnConfiguring(DbContextOptionsBuilder) , DbContext.ConfigureConventions(ModelConfigurationBuilder) , DbContext.SaveChanges() , DbContext.SaveChanges(bool) , DbContext.SaveChangesAsync(CancellationToken) , DbContext.SaveChangesAsync(bool, CancellationToken) , DbContext.Dispose() , DbContext.DisposeAsync() , DbContext.Entry<TEntity>(TEntity) , DbContext.Entry(object) , DbContext.Add<TEntity>(TEntity) , DbContext.AddAsync<TEntity>(TEntity, CancellationToken) , DbContext.Attach<TEntity>(TEntity) , DbContext.Update<TEntity>(TEntity) , DbContext.Remove<TEntity>(TEntity) , DbContext.Add(object) , DbContext.AddAsync(object, CancellationToken) , DbContext.Attach(object) , DbContext.Update(object) , DbContext.Remove(object) , DbContext.AddRange(params object[]) , DbContext.AddRangeAsync(params object[]) , DbContext.AttachRange(params object[]) , DbContext.UpdateRange(params object[]) , DbContext.RemoveRange(params object[]) , DbContext.AddRange(IEnumerable<object>) , DbContext.AddRangeAsync(IEnumerable<object>, CancellationToken) , DbContext.AttachRange(IEnumerable<object>) , DbContext.UpdateRange(IEnumerable<object>) , DbContext.RemoveRange(IEnumerable<object>) , DbContext.Find(Type, params object[]) , DbContext.FindAsync(Type, params object[]) ,

DbContext.FindAsync(Type, object[], CancellationToken) ,
DbContext.Find<TEntity>(params object[]) ,
DbContext.FindAsync<TEntity>(params object[]) ,
DbContext.FindAsync<TEntity>(object[], CancellationToken) ,
DbContext.FromExpression<TResult>(Expression<Func<IQueryable<TResult>>>) ,
DbContext.Database , DbContext.ChangeTracker , DbContext.Model ,
DbContext.ContextId , DbContext.SavingChanges , DbContext.SavedChanges ,
DbContext.SaveChangesFailed , object.Equals(object) , object.Equals(object, object) ,
object.GetHashCode() , object.GetType() , object.MemberwiseClone() ,
object.ReferenceEquals(object, object) , object.ToString()

Constructors

CoursesContext(DbContextOptions<CoursesContext>)

```
public CoursesContext(DbContextOptions<CoursesContext> options)
```

Parameters

`options` DbContextOptions<CoursesContext>

Properties

Courses

```
public DbSet<Course> Courses { get; set; }
```

Property Value

DbSet<Course>

Departments

```
public DbSet<Department> Departments { get; set; }
```

Property Value

DbSet<Department>

Sessions

```
public DbSet<Session> Sessions { get; set; }
```

Property Value

DbSet<Session>

Students

```
public DbSet<Student> Students { get; set; }
```

Property Value

DbSet<Student>

Users

```
public DbSet<User> Users { get; set; }
```

Property Value

DbSet<User>

Methods

OnModelCreating(ModelBuilder)

Override this method to further configure the model that was discovered by convention from the entity types exposed in DbSet<TEntity> properties on your derived context. The

resulting model may be cached and re-used for subsequent instances of your derived context.

```
protected override void OnModelCreating(ModelBuilder modelBuilder)
```

Parameters

`modelBuilder` ModelBuilder

The builder being used to construct the model for this context. Databases (and other extensions) typically define extension methods on this object that allow you to configure aspects of the model that are specific to a given database.

Remarks

If a model is explicitly set on the options for this context (via UseModel(IModel)) then this method will not be run. However, it will still run when creating a compiled model.

See Modeling entity types and relationships for more information and examples.

Namespace AttendanceSystem.Data.Migrations

Classes

Initial

A base class inherited by each EF Core migration.

Class Initial

Namespace: AttendanceSystem.Data.Migrations

Assembly: AttendanceSystem.Data.dll

A base class inherited by each EF Core migration.

```
[DbContext(typeof(CoursesContext))]
[Migration("20250305112651_Initial")]
public class Initial : Migration
```

Inheritance

object ← Migration ← Initial

Inherited Members

Migration.InitialDatabase , Migration.TargetModel , Migration.UpOperations , Migration.DownOperations , Migration.ActiveProvider , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Remarks

See Database migrations for more information and examples.

Methods

BuildTargetModel(ModelBuilder)

Implemented to build the TargetModel.

```
protected override void BuildTargetModel(ModelBuilder modelBuilder)
```

Parameters

`modelBuilder` ModelBuilder

The ModelBuilder to use to build the model.

Remarks

See Database migrations for more information and examples.

Down(MigrationBuilder)

Builds the operations that will migrate the database 'down'.

```
protected override void Down(MigrationBuilder migrationBuilder)
```

Parameters

`migrationBuilder` MigrationBuilder

The MigrationBuilder that will build the operations.

Remarks

That is, builds the operations that will take the database from the state left in by this migration so that it returns to the state that it was in before this migration was applied.

This method must be overridden in each class that inherits from Migration if both 'up' and 'down' migrations are to be supported. If it is not overridden, then calling it will throw and it will not be possible to migrate in the 'down' direction.

See Database migrations for more information and examples.

Up(MigrationBuilder)

Builds the operations that will migrate the database 'up'.

```
protected override void Up(MigrationBuilder migrationBuilder)
```

Parameters

`migrationBuilder` MigrationBuilder

The MigrationBuilder that will build the operations.

Remarks

That is, builds the operations that will take the database from the state left in by the previous migration so that it is up-to-date with regard to this migration.

This method must be overridden in each class that inherits from Migration.

See Database migrations for more information and examples.

Namespace AttendanceSystem.Domain.Model

Classes

Administrator

AttendanceRecord

AttendanceSubmission

Course

Department

Session

Student

Teacher

User

Enums

AttendanceKind

Class Administrator

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
public class Administrator : User
```

Inheritance

object ← User ← Administrator

Inherited Members

User.Id , User.Name , User.Email , User.Courses , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Enum AttendanceKind

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
[JsonConverter(typeof(JsonStringEnumConverter))]
public enum AttendanceKind
```

Fields

`Absent = 2`

`Late = 3`

`LeftEarly = 5`

`Present = 1`

`Sick = 4`

`Unknown = 0`

Class AttendanceRecord

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
public record AttendanceRecord : IEquatable<AttendanceRecord>
```

Inheritance

object ← AttendanceRecord

Implements

IEquatable<AttendanceRecord>

Derived

ExtendedAttendanceRecord

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

SessionId

```
public required Guid SessionId { get; set; }
```

Property Value

Guid

StudentId

```
public required string StudentId { get; set; }
```

Property Value

string

StudentSubmission

```
public required AttendanceSubmission StudentSubmission { get; set; }
```

Property Value

AttendanceSubmission

TeacherSubmission

```
public required AttendanceSubmission TeacherSubmission { get; set; }
```

Property Value

AttendanceSubmission

Class AttendanceSubmission

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
[Owned]
public record AttendanceSubmission : IEquatable<AttendanceSubmission>
```

Inheritance

object ← AttendanceSubmission

Implements

IEquatable<AttendanceSubmission>

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

AttendanceSubmission()

```
public AttendanceSubmission()
```

Properties

Attendance

```
public required AttendanceKind Attendance { get; set; }
```

Property Value

AttendanceKind

IsSubmitted

```
[NotMapped]
public bool IsSubmitted { get; }
```

Property Value

bool

Submitted

```
public DateTime? Submitted { get; }
```

Property Value

DateTime?

Class Course

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
public class Course
```

Inheritance

object ← Course

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

Course(string, string, string, List<string>)

```
public Course(string id, string name, string department, List<string> teachers)
```

Parameters

`id` string

`name` string

`department` string

`teachers` List<string>

Properties

Department

```
public string Department { get; }
```

Property Value

string

Id

```
public string Id { get; }
```

Property Value

string

Name

```
public string Name { get; }
```

Property Value

string

Sessions

```
public List<Session> Sessions { get; }
```

Property Value

List<Session>

Students

```
public List<string> Students { get; }
```

Property Value

List<string>

Teachers

```
public List<string> Teachers { get; }
```

Property Value

List<string>

Class Department

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
public class Department
```

Inheritance

object ← Department

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Name

```
public string Name { get; set; }
```

Property Value

string

Class Session

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
public class Session
```

Inheritance

object ← Session

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

Session(Course, List<string>, DateTime, DateTime)

```
public Session(Course course, List<string> students, DateTime startTime,
DateTime endTime)
```

Parameters

`course` Course

`students` List<string>

`startTime` DateTime

`endTime` DateTime

Properties

Course

```
public required Course Course { get; set; }
```

Property Value

Course

EndTime

```
public required DateTime EndTime { get; set; }
```

Property Value

DateTime

Id

```
public Guid Id { get; init; }
```

Property Value

Guid

Register

```
public ICollection<AttendanceRecord> Register { get; }
```

Property Value

ICollection<AttendanceRecord>

StartTime

```
public required DateTime StartTime { get; set; }
```

Property Value

DateTime

Methods

SetStudentAttendance(string, AttendanceKind)

```
public void SetStudentAttendance(string studentId, AttendanceKind attendance)
```

Parameters

`studentId` string

`attendance` AttendanceKind

SetTeacherApproval(string, AttendanceKind)

```
public void SetTeacherApproval(string studentId, AttendanceKind attendance)
```

Parameters

`studentId` string

`attendance` AttendanceKind

Class Student

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
public class Student : User
```

Inheritance

object ← User ← Student

Inherited Members

User.Id , User.Name , User.Email , User.Courses , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Class Teacher

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
public class Teacher : User
```

Inheritance

object ← User ← Teacher

Inherited Members

User.Id , User.Name , User.Email , User.Courses , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Class User

Namespace: AttendanceSystem.Domain.Model

Assembly: AttendanceSystem.Domain.Model.dll

```
public class User
```

Inheritance

object ← User

Derived

Administrator, Student, Teacher

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Courses

```
public List<Course> Courses { get; set; }
```

Property Value

List<Course>

Email

```
public string Email { get; set; }
```

Property Value

string

Id

Gets or sets the internal ID managed by the external identity provider.

```
public string Id { get; init; }
```

Property Value

string

Remarks

We want to store this because otherwise, we cannot identify the user based on the information provided by the identity provider.

Name

```
public string Name { get; set; }
```

Property Value

string

Namespace AttendanceSystem.Domain.Model.Exceptions

Classes

EntityNotFoundException

Class EntityNotFoundException

Namespace: AttendanceSystem.Domain.Model.Exceptions

Assembly: AttendanceSystem.Domain.Model.dll

```
public class EntityNotFoundException : Exception, ISerializable
```

Inheritance

object ← Exception ← EntityNotFoundException

Implements

ISerializable

Inherited Members

Exception.GetBaseException() , Exception.GetType() , Exception.ToString() , Exception.Data , Exception.HelpLink , Exception.HResult , Exception.InnerException , Exception.Message , Exception.Source , Exception.StackTrace , Exception.TargetSite , Exception.SerializeObjectState , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.MemberwiseClone() , object.ReferenceEquals(object, object)

Constructors

EntityNotFoundException(string)

```
public EntityNotFoundException(string message)
```

Parameters

`message` string

Namespace AttendanceSystem.Domain.Services

Classes

AttendanceService

CourseService

UserService

Class AttendanceService

Namespace: AttendanceSystem.Domain.Services

Assembly: AttendanceSystem.Domain.Services.dll

```
public class AttendanceService
```

Inheritance

object ← AttendanceService

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

AttendanceService(CoursesContext)

```
public AttendanceService(CoursesContext context)
```

Parameters

`context` CoursesContext

Methods

CreateSession(string, DateTime, DateTime, List<string>)

```
public Task<Session> CreateSession(string courseId, DateTime startdate, DateTime
enddate, List<string> students)
```

Parameters

`courseId` string

`startdate` DateTime

`enddate` DateTime

`students` List<string>

Returns

Task<Session>

DeleteSession(Guid)

```
public Task DeleteSession(Guid sessionId)
```

Parameters

`sessionId` Guid

Returns

Task

GetSession(Guid)

```
public Task<Session> GetSession(Guid sessionId)
```

Parameters

`sessionId` Guid

Returns

Task<Session>

GetSessionWithRegister(Guid)

```
public Task<Session> GetSessionWithRegister(Guid sessionId)
```

Parameters

`sessionId` Guid

Returns

Task<Session>

GetSessions(string)

```
public Task<List<Session>> GetSessions(string courseId)
```

Parameters

`courseId` string

Returns

Task<List<Session>>

GetUpcomingSessions(string)

```
public Task<List<Session>> GetUpcomingSessions(string userId)
```

Parameters

`userId` string

Returns

Task<List<Session>>

GetUpcomingSessionsForUser(string)

```
public Task<List<Session>> GetUpcomingSessionsForUser(string userId)
```

Parameters

`userId` string

Returns

Task<List<Session>>

SetStudentAttendance(Guid, string, AttendanceKind)

```
public Task SetStudentAttendance(Guid sessionId, string studentId,
AttendanceKind kind)
```

Parameters

`sessionId` Guid

`studentId` string

`kind` AttendanceKind

Returns

Task

SetTeacherApproval(Guid, string, AttendanceKind)

```
public Task SetTeacherApproval(Guid sessionId, string studentId,
AttendanceKind kind)
```

Parameters

`sessionId` Guid

`studentId` string

`kind` AttendanceKind

Returns

Task

Class CourseService

Namespace: AttendanceSystem.Domain.Services

Assembly: AttendanceSystem.Domain.Services.dll

```
public class CourseService
```

Inheritance

object ← CourseService

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

CourseService(CoursesContext)

```
public CourseService(CoursesContext context)
```

Parameters

`context` CoursesContext

Methods

ConfigureCourse(string, CourseAlteration)

```
public Task<Course> ConfigureCourse(string courseId, CourseAlteration alteration)
```

Parameters

`courseId` string

`alteration` CourseAlteration

Returns

Task<Course>

CourseExists(string)

```
public Task<bool> CourseExists(string courseId)
```

Parameters

`courseId` string

Returns

Task<bool>

CreateNewCourse(string, string, string, List<string>)

```
public Task<Course> CreateNewCourse(string id, string name, string departmentId,
List<string> teacherIds)
```

Parameters

`id` string

`name` string

`departmentId` string

`teacherIds` List<string>

Returns

Task<Course>

DeleteCourse(string)

```
public Task DeleteCourse(string courseId)
```

Parameters

`courseId` string

Returns

Task

EnrollUser(string, string)

```
public Task EnrollUser(string courseId, string userId)
```

Parameters

`courseId` string

`userId` string

Returns

Task

GetAllCourses()

```
public Task<List<Course>> GetAllCourses()
```

Returns

Task<List<Course>>

GetAllCourses(string)

```
public Task<List<Course>> GetAllCourses(string userId)
```

Parameters

`userId` string

Returns

Task<List<Course>>

GetCourse(string)

```
public Task<Course> GetCourse(string courseId)
```

Parameters

`courseId` string

Returns

Task<Course>

UserCanAccessCourse(string, string)

```
public Task<bool> UserCanAccessCourse(string courseId, string userId)
```

Parameters

`courseId` string

`userId` string

Returns

Task<bool>

Class UserService

Namespace: AttendanceSystem.Domain.Services

Assembly: AttendanceSystem.Domain.Services.dll

```
public class UserService
```

Inheritance

object ← UserService

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

UserService(CoursesContext)

```
public UserService(CoursesContext context)
```

Parameters

`context` CoursesContext

Methods

CreateAdministrator(string, string, string)

```
public Task<User> CreateAdministrator(string id, string name, string email)
```

Parameters

`id` string

`name` string

`email` string

Returns

Task<User>

CreateStudent(string, string, string)

```
public Task<User> CreateStudent(string id, string name, string email)
```

Parameters

`id` string

`name` string

`email` string

Returns

Task<User>

CreateTeacher(string, string, string)

```
public Task<User> CreateTeacher(string id, string name, string email)
```

Parameters

`id` string

`name` string

`email` string

Returns

Task<User>

DeleteUser(string)

```
public Task DeleteUser(string userId)
```

Parameters

`userId` string

Returns

Task

EditUser(string, UserAlteration)

```
public Task<User> EditUser(string userId, UserAlteration alteration)
```

Parameters

`userId` string

`alteration` UserAlteration

Returns

Task<User>

GetAllStudents()

```
public Task<List<User>> GetAllStudents()
```

Returns

Task<List<User>>

GetUser(string)

```
public Task<User> GetUser(string userId)
```

Parameters

`userId` string

Returns

Task<User>

GetUsers(List<string>)

```
public Task<List<User>> GetUsers(List<string> users)
```

Parameters

`users` List<string>

Returns

Task<List<User>>

Namespace AttendanceSystem.Domain.Services.Alterations

Classes

CourseAlteration

UserAlteration

Class CourseAlteration

Namespace: AttendanceSystem.Domain.Services.Alterations

Assembly: AttendanceSystem.Domain.Services.dll

```
public class CourseAlteration
```

Inheritance

object ← CourseAlteration

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Department

```
public string? Department { get; set; }
```

Property Value

string

Name

```
public string? Name { get; set; }
```

Property Value

string

Class UserAlteration

Namespace: AttendanceSystem.Domain.Services.Alterations

Assembly: AttendanceSystem.Domain.Services.dll

```
public class UserAlteration
```

Inheritance

object ← UserAlteration

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Email

```
public string? Email { get; set; }
```

Property Value

string

Name

```
public string? Name { get; set; }
```

Property Value

string

Namespace AttendanceSystem.Domain.Services.Tools

Classes

MockDataGenerator

Class MockDataGenerator

Namespace: AttendanceSystem.Domain.Services.Tools

Assembly: AttendanceSystem.Domain.Services.dll

```
public class MockDataGenerator
```

Inheritance

object ← MockDataGenerator

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

MockDataGenerator(UserService, CourseService, AttendanceService, CoursesContext)

```
public MockDataGenerator(UserService userService, CourseService courseService,
AttendanceService attendanceService, CoursesContext context)
```

Parameters

`userService` UserService

`courseService` CourseService

`attendanceService` AttendanceService

`context` CoursesContext

Methods

GenerateRealData()

```
public Task GenerateRealData()
```

Returns

Task