Namespace AttendanceSystem.Api Classes

AuthenticationService

<u>FunctionExecutorHostBuilderExtensions</u>

Extension methods to enable registration of the custom <u>IFunctionExecutor</u> implementation generated for the current worker.

Roles

Services

<u>SwaggerSetup</u>

<u>WorkerHostBuilderFunctionMetadataProviderExtension</u>

Extension methods to enable registration of the custom <u>IFunctionMetadataProvider</u> implementation generated for the current worker.

Class AuthenticationService

Namespace: <u>AttendanceSystem.Api</u>
Assembly: AttendanceSystem.Api.dll

public class AuthenticationService

Inheritance

Inherited Members

Constructors

AuthenticationService(ILogger<AuthenticationService>, JsonWebTokenHandler)

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

Parameters

logger <u>ILogger</u> < <u>AuthenticationService</u> >

jwtHandler <u>JsonWebTokenHandler</u> ✓

Methods

GetRoles(TokenValidationResult)

public List<string> GetRoles(TokenValidationResult jwt)

Parameters

Returns

<u>List</u>♂<<u>string</u>♂>

IsAuthenticated(TokenValidationResult, IEnumerable<string>)

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

Parameters

jwt <u>TokenValidationResult</u>♂

requiredRoles <u>IEnumerable</u> < <u>string</u> <>

Returns

<u>bool</u> ☑

Class FunctionExecutorHostBuilder Extensions

Namespace: <u>AttendanceSystem.Api</u>
Assembly: AttendanceSystem.Api.dll

Extension methods to enable registration of the custom <u>IFunctionExecutor</u> implementation generated for the current worker.

public static class FunctionExecutorHostBuilderExtensions

Inheritance

<u>object</u>

✓ FunctionExecutorHostBuilderExtensions

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Methods

ConfigureGeneratedFunctionExecutor(IHostBuilder)

Configures an optimized function executor to the invocation pipeline.

public static IHostBuilder ConfigureGeneratedFunctionExecutor(this
IHostBuilder builder)

Parameters

Returns

Class Roles

Namespace: <u>AttendanceSystem.Api</u>
Assembly: AttendanceSystem.Api.dll

public static class Roles

Inheritance

object♂ ← Roles

Inherited Members

Fields

Admin

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

Field Value

AllowAll

public static string[] AllowAll

Field Value

<u>string</u> []

AllowElevated

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

Field Value

<u>string</u> []

Student

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

Field Value

 $\underline{\mathsf{string}} \, \underline{\square}$

Teacher

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

Field Value

 $\underline{\text{string}}$

Class Services

Namespace: <u>AttendanceSystem.Api</u>
Assembly: AttendanceSystem.Api.dll

public static class Services

Inheritance

object

← Services

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Methods

AddServices(IServiceCollection)

public static IServiceCollection AddServices(this IServiceCollection sp)

Parameters

sp <u>IServiceCollection</u>

☑

Returns

Class SwaggerSetup

Namespace: <u>AttendanceSystem.Api</u>
Assembly: AttendanceSystem.Api.dll

public static class SwaggerSetup

Inheritance

Inherited Members

Methods

AddSwagger(IServiceCollection)

public static IServiceCollection AddSwagger(this IServiceCollection services)

Parameters

Returns

Class WorkerHostBuilderFunctionMetadata ProviderExtension

Namespace: <u>AttendanceSystem.Api</u>
Assembly: AttendanceSystem.Api.dll

Extension methods to enable registration of the custom <u>IFunctionMetadataProvider</u> implementation generated for the current worker.

public static class WorkerHostBuilderFunctionMetadataProviderExtension

Inheritance

<u>object</u> ✓ ← WorkerHostBuilderFunctionMetadataProviderExtension

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , object.ToString()

Methods

ConfigureGeneratedFunctionMetadataProvider(IHost Builder)

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

Returns

Namespace AttendanceSystem.Api. Contracts

Classes

CreateCourseContract

CreateSessionContract

CreateUserContract

EnrollUserContract

ExtendedAttendanceRecord

<u>GetAttendanceListContract</u>

<u>UpdateAttendanceContract</u>

<u>UpdateAttendanceContractItem</u>

Enums

<u>UserType</u>

Class CreateCourseContract

Namespace: <u>AttendanceSystem.Api.Contracts</u>

Assembly: AttendanceSystem.Api.dll

public class CreateCourseContract

Inheritance

object

← CreateCourseContract

Inherited Members

Properties

DepartmentId

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

Id

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

<u>string</u> □

Name

```
public required string Name { get; set; }
Property Value
string♂
```

TeacherIds

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

Class CreateSessionContract

Namespace: <u>AttendanceSystem.Api.Contracts</u>

Assembly: AttendanceSystem.Api.dll

public class CreateSessionContract

Inheritance

object

← CreateSessionContract

Inherited Members

Properties

EndDate

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

Property Value

DateTime ☑

Participants

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

Property Value

<u>List</u>♂<<u>string</u>♂>

StartDate

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

Property Value

Class CreateUserContract

Namespace: <u>AttendanceSystem.Api.Contracts</u>

Assembly: AttendanceSystem.Api.dll

public class CreateUserContract

Inheritance

<u>object</u>

← CreateUserContract

Inherited Members

Properties

Email

```
public required string Email { get; set; }
Property Value
string♂
```

Id

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

Property Value

Name

```
public required string Name { get; set; }
Property Value
string♂
```

Type

public required UserType Type { get; set; }

Property Value

<u>UserType</u>

Class EnrollUserContract

Namespace: <u>AttendanceSystem.Api.Contracts</u>

Assembly: AttendanceSystem.Api.dll

public class EnrollUserContract

Inheritance

object

← EnrollUserContract

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Properties

UserId

public required string UserId { get; set; }

Property Value

<u>string</u> □

Class ExtendedAttendanceRecord

Namespace: <u>AttendanceSystem.Api.Contracts</u>

Assembly: AttendanceSystem.Api.dll

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

Inheritance

object

← AttendanceRecord ← ExtendedAttendanceRecord

Implements

<u>IEquatable</u> < <u>AttendanceRecord</u>>, <u>IEquatable</u> < <u>ExtendedAttendanceRecord</u>>

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: <u>AttendanceSystem.Api.Contracts</u>

Assembly: AttendanceSystem.Api.dll

public class GetAttendanceListContract

Inheritance

object

← GetAttendanceListContract

Inherited Members

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

<u>Guid</u> ♂

Register

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

Property Value

StartTime

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

Property Value

Class UpdateAttendanceContract

Namespace: <u>AttendanceSystem.Api.Contracts</u>

Assembly: AttendanceSystem.Api.dll

public class UpdateAttendanceContract

Inheritance

<u>object</u> ✓ ← UpdateAttendanceContract

Inherited Members

Properties

Attendance

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

Property Value

<u>List</u> < <u>UpdateAttendanceContractItem</u> >

Class UpdateAttendanceContractItem

Namespace: <u>AttendanceSystem.Api.Contracts</u>

Assembly: AttendanceSystem.Api.dll

public class UpdateAttendanceContractItem

Inheritance

<u>object</u> ✓ ← UpdateAttendanceContractItem

Inherited Members

Properties

Kind

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

Property Value

AttendanceKind

UserId

<u>string</u> □

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

Enum UserType

Namespace: <u>AttendanceSystem.Api.Contracts</u>

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

<u>SessionsController</u>

<u>SwaggerController</u>

Represents the controller that serves the swagger documents

<u>UsersController</u>

Class BaseController

Namespace: <u>AttendanceSystem.Api.Controllers</u>

Assembly: AttendanceSystem.Api.dll

public class BaseController

Inheritance

object

← BaseController

Derived

CoursesController, FeedController, SessionsController, UsersController

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Constructors

BaseController(AuthenticationService, UserService)

public BaseController(AuthenticationService authenticationService, UserService userService)

Parameters

authenticationService AuthenticationService

userService UserService

Fields

userService

protected readonly UserService _userService

Field Value

<u>UserService</u>

Methods

AssertAuthentication(FunctionContext, IEnumerable<string>)

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

Parameters

context <u>FunctionContext</u> ✓

allowedRoles <u>IEnumerable</u> ♂ < <u>string</u> ♂ >

Returns

Task ☑

GetUser(FunctionContext)

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

Parameters

context FunctionContext♂

Returns

<u>Task</u> < <u>User</u> >

GetUserId(FunctionContext)

protected string GetUserId(FunctionContext context)

Parameters

Returns

<u>string</u> □

GetUserRoles(FunctionContext)

protected List<string> GetUserRoles(FunctionContext context)

Parameters

context <u>FunctionContext</u> ✓

Returns

<u>List</u>♂<<u>string</u>♂>

Class CoursesController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

public class CoursesController : BaseController

Inheritance

object

← BaseController ← CoursesController

Inherited Members

Constructors

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

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

Parameters

logger <u>ILogger</u> < <u>CoursesController</u> >

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

ctx FunctionContext♂

courseId string

alteration CourseAlteration

Returns

<u>Task</u> ♂ < <u>IActionResult</u> ♂ >

CreateNewCourse(HttpRequest, FunctionContext, CreateCourseContract)

```
[Function("CoursesController-CreateNewCourse")]

public Task<IActionResult> CreateNewCourse(HttpRequest req, FunctionContext ctx,

CreateCourseContract contract)
```

Parameters

req <u>HttpRequest</u> □

ctx FunctionContext♂

contract CreateCourseContract

Returns

DeleteCourse(HttpRequest, FunctionContext, string)

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

Parameters

req <u>HttpRequest</u> ✓

ctx FunctionContext

Returns

Task d ActionResult d >

EnrollUser(HttpRequest, FunctionContext, string, EnrollUserContract)

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

Parameters

req <u>HttpRequest</u>♂

ctx FunctionContext

courseId <u>string</u>♂

contract EnrollUserContract

Returns

GetAllCourses(HttpRequest, FunctionContext)

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

Parameters

ctx FunctionContext

Returns

<u>Task</u>♂<<u>IActionResult</u>♂>

GetCourse(HttpRequest, FunctionContext, string)

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

Parameters

req <u>HttpRequest</u> ♂

ctx <u>FunctionContext</u> ✓

 $\texttt{courseId} \ \underline{\texttt{string}} \, \underline{ } \\$

Returns

Task < < IActionResult < > >

Class FeedController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

public class FeedController : BaseController

Inheritance

object

← BaseController ← FeedController

Inherited Members

Constructors

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

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

Parameters

logger <u>ILogger</u> < <u>SessionsController</u> >

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 <u>HttpRequest</u> d

Returns

<u>Task</u> ♂ < <u>IActionResult</u> ♂ >

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

 $\underline{BaseController._userService} \ , \ \underline{BaseController.GetUserId(FunctionContext)} \ , \ \underline{BaseController.GetUserRoles(FunctionContext)} \ , \ \underline{BaseController.GetUser(FunctionContext)} \ , \ \underline{BaseController.AssertAuthentication(FunctionContext, IEnumerable < string >)} \ , \ \underline{object.Equals(object)} \ , \ \underline{object.Equals(object, object)} \ , \ \underline{object.GetType()} \ , \ \underline{object.MemberwiseClone()} \ , \ \underline{object.ReferenceEquals(object, object)} \ , \ \underline{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 <u>ILogger</u> < <u>SessionsController</u> >

attendanceService AttendanceService

authenticationService <u>AuthenticationService</u>

userService UserService

Methods

CreateNewSession(HttpRequest, FunctionContext, string, CreateSessionContract)

```
[Function("SessionsController-CreateNewSession")]

public Task<IActionResult> CreateNewSession(HttpRequest req, FunctionContext ctx,

string courseId, CreateSessionContract contract)
```

Parameters

req <u>HttpRequest</u> ✓

ctx FunctionContext♂

courseId string

contract CreateSessionContract

Returns

<u>Task</u> ♂ < <u>IActionResult</u> ♂ >

DeleteSession(HttpRequest, FunctionContext, string, Guid)

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

Parameters

req <u>HttpRequest</u> ✓

ctx FunctionContext

```
courseId string
```

sessionId Guid♂

Returns

<u>Task</u>♂<<u>IActionResult</u>♂>

GetAllSessions(HttpRequest, FunctionContext, string)

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

Parameters

req <u>HttpRequest</u> ✓

ctx FunctionContext♂

courseId string

Returns

<u>Task</u>♂<<u>IActionResult</u>♂>

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

The http request of the function.

ctx FunctionContext

The context of the functions.

courseId string

The id of the course.

sessionId <u>Guid</u>♂

The id of the session.

Returns

<u>Task</u> ♂ < <u>IActionResult</u> ♂ >

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

courseId <u>string</u>♂

sessionId <u>Guid</u>♂

contract <u>UpdateAttendanceContract</u>

Returns

<u>Task</u>♂<<u>IActionResult</u>♂>

Class SwaggerController

Namespace: AttendanceSystem.Api.Controllers

Assembly: AttendanceSystem.Api.dll

Represents the controller that serves the swagger documents

public class SwaggerController

Inheritance

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Constructors

SwaggerController(ILogger<SwaggerController>, ISwashBuckleClient)

Represents the controller that serves the swagger documents

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

Parameters

logger <u>ILogger</u> < <u>SwaggerController</u> >

swashBuckleClient ISwashBuckleClient

Methods

SwaggerJson(HttpRequestData)

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

Parameters

req <u>HttpRequestData</u> ♂

Returns

<u>Task</u>♂<<u>HttpResponseData</u>♂>

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 <u>HttpRequestData</u>

☑

The request given by the azure functions

Returns

<u>Task</u> < <u>HttpResponseData</u> < > >

An OAuth2 Redirect Response

SwaggerUi(HttpRequestData)

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

Parameters

req <u>HttpRequestData</u>♂

Returns

<u>Task</u>♂ < <u>HttpResponseData</u>♂ >

Class UsersController

Namespace: <u>AttendanceSystem.Api.Controllers</u>

Assembly: AttendanceSystem.Api.dll

public class UsersController : BaseController

Inheritance

object

← BaseController ← UsersController

Inherited Members

Constructors

UsersController(ILogger<UsersController>, UserService, AuthenticationService)

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

Parameters

logger <u>ILogger</u> < <u>UsersController</u> >

userService UserService

authenticationService <u>AuthenticationService</u>

Methods

ConfigureUser(HttpRequest, FunctionContext, string, UserAlteration)

```
[Function("UsersController-ConfigureUser")]

public Task<IActionResult> ConfigureUser(HttpRequest req, FunctionContext ctx,

string userId, UserAlteration alteration)
```

Parameters

ctx FunctionContext♂

userId <u>string</u>♂

alteration <u>UserAlteration</u>

Returns

<u>Task</u> ♂ < <u>IActionResult</u> ♂ >

CreateUser(HttpRequest, FunctionContext, CreateUserContract)

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

Parameters

req <u>HttpRequest</u> ♂

contract CreateUserContract

Returns

Task d < IActionResult d >

DeleteUser(HttpRequest, FunctionContext, string)

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

Parameters

ctx FunctionContext

userId <u>string</u>♂

Returns

Task < < IActionResult < >

GetAllUsers(HttpRequest, FunctionContext)

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

Parameters

req <u>HttpRequest</u> ✓

ctx FunctionContext

Returns

<u>Task</u> ♂ < <u>IActionResult</u> ♂ >

GetUser(HttpRequest, FunctionContext, string)

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

Parameters

req <u>HttpRequest</u>♂

ctx <u>FunctionContext</u>♂

userId <u>string</u>♂

Returns

<u>Task</u>♂<<u>IActionResult</u>♂>

Namespace AttendanceSystem.Api. Middleware

Classes

<u>AuthenticationHandler</u>

 $\underline{\mathsf{Exception} \mathsf{ToError} \mathsf{CodeHandler}}$

Class AuthenticationHandler

Namespace: <u>AttendanceSystem.Api.Middleware</u>

Assembly: AttendanceSystem.Api.dll

public class AuthenticationHandler : IFunctionsWorkerMiddleware

Inheritance

<u>object</u> ← AuthenticationHandler

Implements

Inherited Members

<u>object.Equals(object)</u> dobject.Equals(object, object) dobject.GetHashCode() dobject.GetType() dobject.MemberwiseClone() dobject.ReferenceEquals(object, object) dobject.ToString() dobject.MemberwiseClone() dobject.ToString() dobject.ToStrin

Constructors

AuthenticationHandler(ILogger<AuthenticationHandler >, JsonWebTokenHandler)

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

Parameters

logger <u>ILogger</u> < <u>AuthenticationHandler</u> >

jwtHandler <u>JsonWebTokenHandler</u> ✓

Methods

Invoke(FunctionContext, FunctionExecutionDelegate)

Invokes the middleware.

public Task Invoke(FunctionContext context, FunctionExecutionDelegate next)

Parameters

context <u>FunctionContext</u>♂

The <u>FunctionContext</u> of for the current invocation.

The next middleware in the pipeline.

Returns

<u>Task</u> ♂

A Task that represents the asynchronous invocation.

Class ExceptionToErrorCodeHandler

Namespace: <u>AttendanceSystem.Api.Middleware</u>

Assembly: AttendanceSystem.Api.dll

public class ExceptionToErrorCodeHandler : IFunctionsWorkerMiddleware

Inheritance

<u>object</u> ✓ ← ExceptionToErrorCodeHandler

Implements

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Constructors

ExceptionToErrorCodeHandler(ILogger<ExceptionToErrorCodeHandler>)

public ExceptionToErrorCodeHandler(ILogger<ExceptionToErrorCodeHandler> logger)

Parameters

logger <u>ILogger</u> < <u>ExceptionToErrorCodeHandler</u> >

Methods

Invoke(FunctionContext, FunctionExecutionDelegate)

Invokes the middleware.

public Task Invoke(FunctionContext context, FunctionExecutionDelegate next)

Parameters

context <u>FunctionContext</u>♂

The <u>FunctionContext</u> of for the current invocation.

The next middleware in the pipeline.

Returns

<u>Task</u> ♂

A Task that represents the asynchronous invocation.

Namespace AttendanceSystem.Data Classes

CoursesContext

Class CoursesContext

Namespace: <u>AttendanceSystem.Data</u>
Assembly: AttendanceSystem.Data.dll

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

Inheritance

<u>object</u> ← <u>DbContext</u> ← CoursesContext

Implements

<u>IInfrastructure</u> ♂ < <u>IServiceProvider</u> ♂ >, <u>IDbContextDependencies</u> ♂, <u>IDbSetCache</u> ♂, <u>IDbContextPoolable</u> ♂, <u>IResettableService</u> ♂, <u>IDisposable</u> ♂, <u>IAsyncDisposable</u> ♂

Inherited Members

```
<u>DbContext.Set<TEntity>()</u> □ , <u>DbContext.Set<TEntity>(string)</u> □ ,
<u>DbContext.OnConfiguring(DbContextOptionsBuilder)</u> ,
DbContext.ConfigureConventions(ModelConfigurationBuilder) ≥ ,
<u>DbContext.SaveChanges()</u> ✓ , <u>DbContext.SaveChanges(bool)</u> ✓ ,
<u>DbContext.SaveChangesAsync(CancellationToken)</u> ⊿ ,
DbContext.SaveChangesAsync(bool, CancellationToken) ♂, DbContext.Dispose() ♂,
<u>DbContext.DisposeAsync()</u> ⊿ , <u>DbContext.Entry<TEntity>(TEntity)</u> ⊿ ,
<u>DbContext.Entry(object)</u> ♂, <u>DbContext.Add<TEntity>(TEntity)</u> ♂,
<u>DbContext.AddAsync<TEntity>(TEntity, CancellationToken)</u> do ,
\underline{\mathsf{DbContext}.\mathsf{Attach} {<} \mathsf{TEntity} {>} (\mathsf{TEntity}) {!} \exists \ , \ \underline{\mathsf{DbContext}.\mathsf{Update} {<} \mathsf{TEntity} {>} (\mathsf{TEntity}) {!} \exists \ , \ }
<u>DbContext.Remove<TEntity>(TEntity)</u> do , <u>DbContext.Add(object)</u> do ,
<u>DbContext.AddAsync(object, CancellationToken)</u> <u>J</u> , <u>DbContext.Attach(object)</u> <u>J</u> ,
<u>DbContext.AddRange(params object[])</u> ✓, <u>DbContext.AddRangeAsync(params object[])</u> ✓,
<u>DbContext.AttachRange(params object[])</u> , <u>DbContext.UpdateRange(params object[])</u> ,
<u>DbContext.RemoveRange(params object[])</u> ∠ ,
DbContext.AddRange(IEnumerable < object > ) ≥ ,
<u>DbContext.AddRangeAsync(IEnumerable<object>, CancellationToken)</u> ,
<u>DbContext.AttachRange(IEnumerable<object>)</u> ,
<u>DbContext.UpdateRange(IEnumerable<object>)</u> ♂,
<u>DbContext.RemoveRange(IEnumerable<object>)</u> ✓ ,
<u>DbContext.Find(Type, params object[])</u> , <u>DbContext.FindAsync(Type, params object[])</u> ,
```

```
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<lQueryable<TResult>>>),

DbContext.Database,

DbContext.ChangeTracker,

DbContext.ContextId,

DbContext.SavingChanges,

DbContext.SavedChanges,

DbContext.SaveChangesFailed,

object.Equals(object),

object.Equals(object, object),

object.ReferenceEquals(object, object),

object.ToString(),

object.ReferenceEquals(object, object),

object.ToString(),

object.ToString(),

object.ReferenceEquals(object, object),

object.ToString(),

object.ToStrin
```

Constructors

CoursesContext(DbContextOptions < CoursesContext>)

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

Parameters

Properties

Courses

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

Property Value

DbSet Course

Departments

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

Property Value

<u>DbSet</u> d' < <u>Department</u> >

Sessions

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

Property Value

<u>DbSet</u> < <u>Session</u> >

Students

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

Property Value

DbSet d < Student >

Users

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

Property Value

<u>DbSet</u> < <u>User</u> >

Methods

OnModelCreating(ModelBuilder)

Override this method to further configure the model that was discovered by convention from the entity types exposed in <a href="DbSet<TEntity">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 <u>UseModel(IModel)</u>) then this method will not be run. However, it will still run when creating a compiled model.

See <u>Modeling entity types and relationships</u> of for more information and examples.

Namespace AttendanceSystem.Data. Migrations

Classes

<u>Initial</u>

A base class inherited by each EF Core migration.

Class Initial

Namespace: <u>AttendanceSystem.Data.Migrations</u>

Assembly: AttendanceSystem.Data.dll

A base class inherited by each EF Core migration.

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

Inheritance

<u>object</u> ∠ ← <u>Migration</u> ∠ ← 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 <u>Database migrations</u> for more information and examples.

Methods

BuildTargetModel(ModelBuilder)

Implemented to build the <u>TargetModel</u> ♂.

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

Parameters

modelBuilder ModelBuilder♂

The ModelBuilder to use to build the model.

Remarks

See <u>Database migrations</u> of for more information and examples.

Down(MigrationBuilder)

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

protected override void Down(MigrationBuilder migrationBuilder)

Parameters

The <u>MigrationBuilder</u> 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 <u>Migration</u> 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 <u>Database migrations</u> for more information and examples.

Up(MigrationBuilder)

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

protected override void Up(MigrationBuilder migrationBuilder)

Parameters

migrationBuilder <u>MigrationBuilder</u>♂

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 <u>Database migrations</u> of for more information and examples.

Namespace AttendanceSystem.Domain. Model

Classes

Administrator

<u>AttendanceRecord</u>

AttendanceSubmission

Course

Department

Session

Student

Teacher

<u>User</u>

Enums

AttendanceKind

Class Administrator

Namespace: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

public class Administrator : User

Inheritance

object

← User ← Administrator

Inherited Members

<u>User.Id</u>, <u>User.Name</u>, <u>User.Email</u>, <u>User.Courses</u>, <u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.ToString()</u> , <u>object.ToString()</u> .

Enum AttendanceKind

Namespace: <u>AttendanceSystem.Domain.Model</u>
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: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

public record AttendanceRecord : IEquatable<AttendanceRecord>

Inheritance

<u>object</u>

← AttendanceRecord

Implements

Derived

ExtendedAttendanceRecord

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Properties

SessionId

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

Property Value

Guid ☑

StudentId

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

StudentSubmission

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

Property Value

AttendanceSubmission

TeacherSubmission

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

Property Value

AttendanceSubmission

Class AttendanceSubmission

Namespace: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

[Owned]

public record AttendanceSubmission : IEquatable<AttendanceSubmission>

Inheritance

<u>object</u> ♂ ← AttendanceSubmission

Implements

<u>IEquatable</u> < <u>AttendanceSubmission</u> >

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , 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

<u>DateTime</u> **□**?

Class Course

Namespace: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

```
public class Course
```

Inheritance

object

← Course

Inherited Members

Constructors

Course(string, string, List<string>)

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

Parameters

```
id <u>string</u>♂
```

name <u>string</u>♂

teachers <u>List</u>♂<<u>string</u>♂>

Properties

Department

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

```
Property Value
Id
 public string Id { get; }
Property Value
Name
 public string Name { get; }
Property Value
Sessions
 public List<Session> Sessions { get; }
Property Value
<u>List</u> < <u>Session</u> >
Students
```

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

Property Value

<u>List</u>♂<<u>string</u>♂>

Teachers

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

Property Value

<u>List</u>♂<<u>string</u>♂>

Class Department

Namespace: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

```
public class Department
```

Inheritance

<u>object</u>

✓

Cobject

Cobject

Inherited Members

Properties

Name

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

Property Value

<u>string</u> □

Class Session

Namespace: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

public class Session

Inheritance

object

← Session

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Constructors

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

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

Parameters

course Course

students <u>List</u>♂<<u>string</u>♂>

startTime DateTime♂

endTime DateTime♂

Properties

Course

```
public required Course Course { get; set; }
Property Value
Course
EndTime
 public required DateTime EndTime { get; set; }
Property Value
Id
 public Guid Id { get; init; }
Property Value
Guid ♂
Register
 public ICollection<AttendanceRecord> Register { get; }
```

Property Value

StartTime

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

Property Value

<u>DateTime</u> □

Methods

SetStudentAttendance(string, AttendanceKind)

public void SetStudentAttendance(string studentId, AttendanceKind attendance)

Parameters

studentId <u>string</u>♂

attendance **AttendanceKind**

SetTeacherApproval(string, AttendanceKind)

public void SetTeacherApproval(string studentId, AttendanceKind attendance)

Parameters

 $\texttt{studentId} \ \underline{\texttt{string}} \, \underline{ \textit{r}}$

attendance **AttendanceKind**

Class Student

Namespace: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

public class Student : User

Inheritance

<u>object</u> < <u>User</u> ← Student

Inherited Members

<u>User.Id</u>, <u>User.Name</u>, <u>User.Email</u>, <u>User.Courses</u>, <u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.ToString()</u> , <u>object.ToString()</u> .

Class Teacher

Namespace: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

```
public class Teacher : User
```

Inheritance

Inherited Members

<u>User.Id</u>, <u>User.Name</u>, <u>User.Email</u>, <u>User.Courses</u>, <u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.ToString()</u> , <u>object.ToString()</u> .

Class User

Namespace: <u>AttendanceSystem.Domain.Model</u>
Assembly: AttendanceSystem.Domain.Model.dll

```
public class User
```

Inheritance

object

← User

Derived

Administrator, Student, Teacher

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Properties

Courses

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

Property Value

List d<Course>

Email

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

Property Value

Id

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

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

Property Value

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

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

<u>object</u> ∠ ← <u>Exception</u> ∠ ← EntityNotFoundException

Implements

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 <u>string</u>♂

Namespace AttendanceSystem.Domain. Services

Classes

<u>AttendanceService</u>

CourseService

<u>UserService</u>

Class AttendanceService

Namespace: <u>AttendanceSystem.Domain.Services</u>
Assembly: AttendanceSystem.Domain.Services.dll

public class AttendanceService

Inheritance

<u>object</u> < AttendanceService

Inherited Members

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

GetSession(Guid)

public Task<Session> GetSession(Guid sessionId)

Parameters

sessionId <u>Guid</u>♂

Returns

Taskd <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 d < List d < Session >> GetUpcomingSessionsForUser(string) public Task<List<Session>> GetUpcomingSessionsForUser(string userId) **Parameters** userId <u>string</u> □

Returns

Task CCCSeSeCESeCEEEEEEEEeEEE</p

SetStudentAttendance(Guid, string, AttendanceKind)

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

Parameters

sessionId <u>Guid</u>♂

studentId <u>string</u> <a>d

kind AttendanceKind

Returns

SetTeacherApproval(Guid, string, AttendanceKind)

public Task SetTeacherApproval(Guid sessionId, string teacherId,
AttendanceKind kind)

Parameters

 $\texttt{sessionId} \ \underline{\textbf{Guid}} \, \underline{\textbf{G}}$

 $\texttt{teacherId} \ \underline{\texttt{string}} \, \underline{\textbf{r}}$

kind AttendanceKind

Returns

<u>Task</u> ☑

Class CourseService

Namespace: <u>AttendanceSystem.Domain.Services</u>
Assembly: AttendanceSystem.Domain.Services.dll

public class CourseService

Inheritance

<u>object</u> < CourseService

Inherited Members

Constructors

CourseService(CoursesContext)

public CourseService(CoursesContext context)

Parameters

context CoursesContext

Methods

ConfigureCourse(string, CourseAlteration)

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

Parameters

courseId <u>string</u> ☑

alteration CourseAlteration

Returns

<u>Task</u> < <u>Course</u> >

CourseExists(string)

public Task<bool> CourseExists(string courseId)

Parameters

courseId <u>string</u> ☑

Returns

Task < < bool < >

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

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

Parameters

id <u>string</u>♂

name <u>string</u> □

departmentId <u>string</u>♂

teacherIds <u>List</u> < < string < >

Returns

<u>Task</u> < <u>Course</u> >

DeleteCourse(string)

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

Parameters

courseId <u>string</u>

Returns

Task ☑

EnrollUser(string, string)

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

Parameters

courseId <u>string</u> ☑

userId <u>string</u>♂

Returns

<u>Task</u> ☑

GetAllCourses()

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

Returns

<u>Task</u>♂<<u>List</u>♂<<u>Course</u>>>

GetAllCourses(string)

```
public Task<List<Course>> GetAllCourses(string userId)
Parameters
userId <u>string</u>♂
Returns
Taskd <Listd <Course>>
GetCourse(string)
  public Task<Course> GetCourse(string courseId)
Parameters
courseId <u>string</u> ✓
Returns
Taskd <Course>
UserCanAccessCourse(string, string)
  public Task<bool> UserCanAccessCourse(string courseId, string userId)
Parameters
courseId <u>string</u> ✓
userId <u>string</u>♂
Returns
Task d Task d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d d dd d dd ddddddddddddddddd<p
```

Class UserService

Namespace: <u>AttendanceSystem.Domain.Services</u>
Assembly: AttendanceSystem.Domain.Services.dll

public class UserService

Inheritance

<u>object</u>

← UserService

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

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 <u>string</u> ♂

```
name <u>string</u> □
email <u>string</u>♂
Returns
Taskd <User>
CreateStudent(string, string, string)
 public Task<User> CreateStudent(string id, string name, string email)
Parameters
id <u>string</u> □
name <u>string</u> □
email <u>string</u>♂
Returns
<u>Task</u>d <<u>User</u>>
CreateTeacher(string, string, string)
 public Task<User> CreateTeacher(string id, string name, string email)
Parameters
id <u>string</u>♂
name <u>string</u> □
email <u>string</u>♂
Returns
Taskd <User>
```

DeleteUser(string)

public Task DeleteUser(string userId)

Parameters

userId <u>string</u>♂

Returns

Task ☑

EditUser(string, UserAlteration)

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

Parameters

userId <u>string</u>♂

alteration UserAlteration

Returns

Taskd <User>

GetAllStudents()

public Task<List<User>> GetAllStudents()

Returns

<u>Task</u>♂<<u>List</u>♂<<u>User</u>>>

GetUser(string)

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

Parameters

userId <u>string</u>♂

Returns

GetUsers(List<string>)

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

Parameters

users <u>List</u>♂<<u>string</u>♂>

Returns

<u>Task</u>♂<<u>List</u>♂<<u>User</u>>>

Namespace AttendanceSystem.Domain. Services.Alterations

Classes

CourseAlteration

UserAlteration

Class CourseAlteration

Namespace: <u>AttendanceSystem.Domain.Services.Alterations</u>

Assembly: AttendanceSystem.Domain.Services.dll

```
public class CourseAlteration
```

Inheritance

object

← CourseAlteration

Inherited Members

Properties

Department

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

<u>string</u> □

Name

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

Property Value

<u>string</u> □

Class UserAlteration

Namespace: <u>AttendanceSystem.Domain.Services.Alterations</u>

Assembly: AttendanceSystem.Domain.Services.dll

```
public class UserAlteration
```

Inheritance

object

← UserAlteration

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

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: <u>AttendanceSystem.Domain.Services.Tools</u>

Assembly: AttendanceSystem.Domain.Services.dll

public class MockDataGenerator

Inheritance

object

← MockDataGenerator

Inherited Members

<u>object.Equals(object)</u> <u>object.Equals(object, object)</u> <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

Constructors

MockDataGenerator(UserService, CourseService, AttendanceService, CoursesContext)

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

Parameters

userService <u>UserService</u>

courseService <u>CourseService</u>

attendanceService <u>AttendanceService</u>

context CoursesContext

Methods

GenerateMockData()

public Task GenerateMockData()

Returns

<u>Task</u>♂