

# Namespace T217\_Capstone\_Project\_API

## Classes

### [Program](#)

#### [StakeholderRisksContext](#)

The DbContext used to connect the application to the Database.

# Class Program

Namespace: [T217 Capstone Project API](#)

Assembly: T217 Capstone Project API.dll

```
public class Program
```

## Inheritance

[object](#) ← Program

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Methods

## Main(string[])

```
public static void Main(string[] args)
```

## Parameters

args [string](#)[]

# Class StakeholderRisksContext

Namespace: [T217 Capstone Project API](#)

Assembly: T217 Capstone Project API.dll

The DbContext used to connect the application to the Database.

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

## Inheritance

[object](#) ← [DbContext](#) ← StakeholderRisksContext

## 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.OnModelCreating\(ModelBuilder\)](#) , [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 >\(Expression< Func< IQueryble< TResult >> \)](#) ,  
[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

### StakeholderRisksContext(DbContextOptions)

```
public StakeholderRisksContext(DbContextOptions options)
```

Parameters

options [DbContextOptions](#)

## Properties

### EnvironmentalRisks

```
public DbSet< EnvironmentalRisks > EnvironmentalRisks { get; set; }
```

Property Value

[DbSet](#) < [EnvironmentalRisks](#) >

### InterpersonalRisks

```
public DbSet< InterpersonalRisks > InterpersonalRisks { get; set; }
```

Property Value

[DbSet](#) < [InterpersonalRisks](#) >

## PersonalRisks

```
public DbSet<PersonalRisks> PersonalRisks { get; set; }
```

Property Value

[DbSet<PersonalRisks>](#)

## ProjectRisks

```
public DbSet<ProjectRisks> ProjectRisks { get; set; }
```

Property Value

[DbSet<ProjectRisks>](#)

## ProjectUsers

```
public DbSet<ProjectUser> ProjectUsers { get; set; }
```

Property Value

[DbSet<ProjectUser>](#)

## Projects

```
public DbSet<Project> Projects { get; set; }
```

Property Value

[DbSet<Project>](#)

## Stakeholders

```
public DbSet<Stakeholder> Stakeholders { get; set; }
```

Property Value

[DbSet](#) <[Stakeholder](#)>

## Users

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

Property Value

[DbSet](#) <[User](#)>

# Namespace T217\_Capstone\_Project\_API.

## Authentication

### Classes

#### [UserAuthenticationFilter](#)

AuthenticationFilter to verify that the User has supplied an API key in the headers, and that the User exists.

# Class UserAuthenticationFilter

Namespace: [T217 Capstone Project API.Authentication](#)

Assembly: T217 Capstone Project API.dll

AuthenticationFilter to verify that the User has supplied an API key in the headers, and that the User exists.

```
public class UserAuthenticationFilter : IAuthorizationFilter, IFilterMetadata
```

Inheritance

[object](#) ← UserAuthenticationFilter

Implements

[IAuthorizationFilter](#), [IFilterMetadata](#)

Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#),  
[object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

UserAuthenticationFilter(IConfiguration, IUserRepository)

```
public UserAuthenticationFilter(IConfiguration configuration, IUserRepository repo)
```

Parameters

configuration  [IConfiguration](#)

repo  [IUserRepository](#)

## Methods

OnAuthorization(AuthorizationFilterContext)

Tries to extract the API key from the headers, then checks the database if the User associated with the key exists.

```
public void OnAuthorization(AuthorizationFilterContext context)
```

## Parameters

context [AuthorizationFilterContext](#)

# Namespace T217\_Capstone\_Project\_API.

## Controllers

### Classes

#### [ProjectUsersController](#)

API endpoint controller that manages all endpoints related to ProjectUsers.

#### [ProjectsController](#)

API endpoint controller that manages all endpoints related to Projects.

#### [RisksController](#)

API endpoint controller that manages all endpoints related to the Risks.

#### [StakeholdersController](#)

API endpoint controller that manages all endpoints related to Stakeholders.

#### [UsersController](#)

API endpoint controller that manages all endpoints related to Users.

# Class ProjectUsersController

Namespace: [T217 Capstone Project API.Controllers](#)

Assembly: T217 Capstone Project API.dll

API endpoint controller that manages all endpoints related to ProjectUsers.

```
[Route("api/[controller]")]
[ApiController]
public class ProjectUsersController : ControllerBase
```

## Inheritance

[object](#) ←  [ControllerBase](#) ← ProjectUsersController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) ,  [ControllerBase.StatusCode\(int, object\)](#) ,  
 [ControllerBase.Content\(string\)](#) ,  [ControllerBase.Content\(string, string\)](#) ,  
 [ControllerBase.Content\(string, string, Encoding\)](#) ,  
 [ControllerBase.Content\(string, MediaTypeHeaderValue\)](#) ,  [ControllerBase.NoContent\(\)](#) ,  
 [ControllerBase.Ok\(\)](#) ,  [ControllerBase.Ok\(object\)](#) ,  [ControllerBase.Redirect\(string\)](#) ,  
 [ControllerBase.RedirectPermanent\(string\)](#) ,  [ControllerBase.RedirectPreserveMethod\(string\)](#) ,  
 [ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) ,  [ControllerBase.LocalRedirect\(string\)](#) ,  
 [ControllerBase.LocalRedirectPermanent\(string\)](#) ,  [ControllerBase.LocalRedirectPreserveMethod\(string\)](#) ,  
 [ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#) ,  [ControllerBase.RedirectToAction\(\)](#) ,  
 [ControllerBase.RedirectToAction\(string\)](#) ,  [ControllerBase.RedirectToAction\(string, object\)](#) ,  
 [ControllerBase.RedirectToAction\(string, string\)](#) ,  
 [ControllerBase.RedirectToAction\(string, string, object\)](#) ,  
 [ControllerBase.RedirectToAction\(string, string, string\)](#) ,  
 [ControllerBase.RedirectToAction\(string, string, object, string\)](#) ,  
 [ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, object\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, string\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, string\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#) ,  
 [ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#) ,  
 [ControllerBase.RedirectToRoute\(string\)](#) ,  [ControllerBase.RedirectToRoute\(object\)](#) ,  
 [ControllerBase.RedirectToRoute\(string, object\)](#) ,  [ControllerBase.RedirectToRoute\(string, string\)](#) ,

[ControllerBase.RedirectToRoute\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string\)](#)  ,  [ControllerBase.RedirectToPage\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string\)](#)  ,  [ControllerBase.RedirectToPage\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.File\(byte\[\], string\)](#)  ,  [ControllerBase.File\(byte\[\], string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string\)](#)  ,  [ControllerBase.File\(byte\[\], string, string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string\)](#)  ,  [ControllerBase.File\(Stream, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string\)](#)  ,  [ControllerBase.File\(Stream, string, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string\)](#)  ,  [ControllerBase.File\(string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string\)](#)  ,  [ControllerBase.PhysicalFile\(string, string, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,

[ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.Unauthorized\(\)](#) ,  [ControllerBase.Unauthorized\(object\)](#) ,  [ControllerBase.NotFound\(\)](#) ,  
 [ControllerBase.NotFound\(object\)](#) ,  [ControllerBase.BadRequest\(\)](#) ,  
 [ControllerBase.BadRequest\(object\)](#) ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#) ,  
 [ControllerBase.UnprocessableEntity\(\)](#) ,  [ControllerBase.UnprocessableEntity\(object\)](#) ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#) ,  [ControllerBase.Conflict\(\)](#) ,  
 [ControllerBase.Conflict\(object\)](#) ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string, IDictionary<string, object>\)](#) ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#) ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#) ,  [ControllerBase.ValidationProblem\(\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary, IDictionary<string, object>\)](#) ,  
 [ControllerBase.Created\(\)](#) ,  [ControllerBase.Created\(string, object\)](#) ,  
 [ControllerBase.Created\(Uri, object\)](#) ,  [ControllerBase.CreatedAtAction\(string, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#) ,  [ControllerBase.CreatedAtRoute\(object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Accepted\(\)](#) ,  
 [ControllerBase.Accepted\(object\)](#) ,  [ControllerBase.Accepted\(Uri\)](#) ,  [ControllerBase.Accepted\(string\)](#) ,  
 [ControllerBase.Accepted\(string, object\)](#) ,  [ControllerBase.Accepted\(Uri, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string\)](#) ,  [ControllerBase.AcceptedAtAction\(string, string\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(object\)](#) ,  [ControllerBase.AcceptedAtRoute\(string\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object\)](#) ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal\)](#) ,  [ControllerBase.SignIn\(ClaimsPrincipal, string\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,

[ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### ProjectUsersController(IProjectUserRepository)

```
public ProjectUsersController(IProjectUserRepository repo)
```

#### Parameters

repo [IProjectUserRepository](#)

## Methods

### AddProjectUserToProject(int, int, ProjectUserPermissionsDTO)

Creates a new ProjectUser associated with the supplied User ID and Project ID, with the supplied permissions if the user has the required authorisation.

```
[HttpPost]  
[ServiceFilter(typeof(UserAuthenticationFilter))]  
public Task<ActionResult<ProjectUser>> AddProjectUserToProject(int projectID, int userID,  
ProjectUserPermissionsDTO projectUserPermissions)
```

## Parameters

**projectID** [int](#)

The ID of the Project which the ProjectUser will be created for.

**userID** [int](#)

The ID of the User which the ProjectUser will be created for.

**projectUserPermissions** [ProjectUserPermissionsDTO](#)

The permissions of the ProjectUser

## Returns

[Task](#) <[ActionResult](#) <[ProjectUser](#)>>

Returns a 201 Created status message.

## DeleteProjectUser(int)

Removes the ProjectUser with the matching ID from the database if the user has the required authorisation.

```
[HttpDelete("{id}")]  
[ServiceFilter(typeof(UserAuthenticationFilter))]  
public Task<IActionResult> DeleteProjectUser(int id)
```

## Parameters

**id** [int](#)

The ID of the ProjectUser to be deleted.

Returns

[Task](#) <[IActionResult](#)>

A status code depending on the results of the deletion.

## GetProjectUsersByProjectID(int)

Returns all the ProjectUsers associated with the supplied Project ID if the user has the required authorisation.

```
[HttpGet("{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<IEnumerable<ProjectUser>>> GetProjectUsersByProjectID(int id)
```

Parameters

**id** [int](#)

The ID of the Project.

Returns

[Task](#) <[ActionResult](#)> <[IEnumerable](#)> <[ProjectUser](#)>>>

A list of all ProjectUsers for the associated Project, or a 404 Not Found status code.

## PutProjectUser(int, ProjectUserPermissionsDTO)

Updates the ProjectUser with the supplied ID with the new ProjectUser if the user has the required authorisation. The ID must match the ProjectUser ID of the supplied ProjectUser.

```
[HttpPut("{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<IActionResult> PutProjectUser(int id, ProjectUserPermissionsDTO
projectUserPermissions)
```

## Parameters

**id** [int](#)

The ID of the ProjectUser to be updated.

**projectUserPermissions** [ProjectUserPermissionsDTO](#)

The new permissions to replace the existing ProjectUser.

## Returns

[Task](#) <[IActionResult](#)>

A status code depending on the results of the update.

# Class ProjectsController

Namespace: [T217 Capstone Project API.Controllers](#)

Assembly: T217 Capstone Project API.dll

API endpoint controller that manages all endpoints related to Projects.

```
[Route("api/[controller]")]
[ApiController]
public class ProjectsController : ControllerBase
```

## Inheritance

[object](#) ← [ControllerBase](#) ← ProjectsController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) , [ControllerBase.StatusCode\(int, object\)](#) ,  
[ControllerBase.Content\(string\)](#) , [ControllerBase.Content\(string, string\)](#) ,  
[ControllerBase.Content\(string, string, Encoding\)](#) ,  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#) , [ControllerBase.NoContent\(\)](#) ,  
[ControllerBase.Ok\(\)](#) , [ControllerBase.Ok\(object\)](#) , [ControllerBase.Redirect\(string\)](#) ,  
[ControllerBase.RedirectPermanent\(string\)](#) , [ControllerBase.RedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.LocalRedirect\(string\)](#) ,  
[ControllerBase.LocalRedirectPermanent\(string\)](#) , [ControllerBase.LocalRedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.RedirectToAction\(\)](#) ,  
[ControllerBase.RedirectToAction\(string\)](#) , [ControllerBase.RedirectToAction\(string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToRoute\(string\)](#) , [ControllerBase.RedirectToRoute\(object\)](#) ,  
[ControllerBase.RedirectToRoute\(string, object\)](#) , [ControllerBase.RedirectToRoute\(string, string\)](#) ,

[ControllerBase.RedirectToRoute\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string\)](#)  ,  [ControllerBase.RedirectToPage\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string\)](#)  ,  [ControllerBase.RedirectToPage\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.File\(byte\[\], string\)](#)  ,  [ControllerBase.File\(byte\[\], string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string\)](#)  ,  [ControllerBase.File\(byte\[\], string, string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string\)](#)  ,  [ControllerBase.File\(Stream, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string\)](#)  ,  [ControllerBase.File\(Stream, string, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string\)](#)  ,  [ControllerBase.File\(string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string\)](#)  ,  [ControllerBase.PhysicalFile\(string, string, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,

[ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.Unauthorized\(\)](#) ,  [ControllerBase.Unauthorized\(object\)](#) ,  [ControllerBase.NotFound\(\)](#) ,  
 [ControllerBase.NotFound\(object\)](#) ,  [ControllerBase.BadRequest\(\)](#) ,  
 [ControllerBase.BadRequest\(object\)](#) ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#) ,  
 [ControllerBase.UnprocessableEntity\(\)](#) ,  [ControllerBase.UnprocessableEntity\(object\)](#) ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#) ,  [ControllerBase.Conflict\(\)](#) ,  
 [ControllerBase.Conflict\(object\)](#) ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string, IDictionary<string, object>\)](#) ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#) ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#) ,  [ControllerBase.ValidationProblem\(\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary, IDictionary<string, object>\)](#) ,  
 [ControllerBase.Created\(\)](#) ,  [ControllerBase.Created\(string, object\)](#) ,  
 [ControllerBase.Created\(Uri, object\)](#) ,  [ControllerBase.CreatedAtAction\(string, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#) ,  [ControllerBase.CreatedAtRoute\(object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Accepted\(\)](#) ,  
 [ControllerBase.Accepted\(object\)](#) ,  [ControllerBase.Accepted\(Uri\)](#) ,  [ControllerBase.Accepted\(string\)](#) ,  
 [ControllerBase.Accepted\(string, object\)](#) ,  [ControllerBase.Accepted\(Uri, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string\)](#) ,  [ControllerBase.AcceptedAtAction\(string, string\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(object\)](#) ,  [ControllerBase.AcceptedAtRoute\(string\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object\)](#) ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal\)](#) ,  [ControllerBase.SignIn\(ClaimsPrincipal, string\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,

[ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### ProjectsController(IProjectRepository)

```
public ProjectsController(IProjectRepository repo)
```

#### Parameters

repo [IProjectRepository](#)

## Methods

### DeleteProject(int)

Removes the project with the matching ID from the database if the user has the required authorisation.

```
[HttpDelete("{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult> DeleteProject(int id)
```

## Parameters

**id** [int](#)

The ID of the Project to be deleted.

## Returns

[Task](#) <[ActionResult](#)>

A status code depending on the results of the deletion.

## GetProject(int)

Gets the Project with the associated ID, and returns it if it exists and the user associated with the included API Key in the header has access to it.

```
[HttpGet("{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<Project>> GetProject(int id)
```

## Parameters

**id** [int](#)

The ID of the desired Project.

## Returns

[Task](#) <[ActionResult](#)> <[Project](#)>

The Project with the matching ID, or a 404 Not Found status code.

## GetProjects()

Gets a list of all the Projects that the user associated with the included API Key in the header has access to read.

```
[HttpGet]  
[ServiceFilter(typeof(UserAuthenticationFilter))]  
public Task<ActionResult<IEnumerable<Project>>> GetProjects()
```

Returns

[Task](#) <[ActionResult](#) <[IEnumerable](#) <[Project](#)>>>

An list of the Projects the user has access to, or a 404 Not Found status code.

## PostProject(ProjectDTO)

Creates a new Project and associated ProjectUser with the values supplied in the ProjectDTO.

```
[HttpPost]  
[ServiceFilter(typeof(UserAuthenticationFilter))]  
public Task<ActionResult<Project>> PostProject(ProjectDTO project)
```

Parameters

[project](#) [ProjectDTO](#)

Returns

[Task](#) <[ActionResult](#) <[Project](#)>>

The newly created Project.

## PutProject(int, Project)

Updates the Project with the supplied ID with the new Project if the user has the required authorisation. The ID must match the project ID of the supplied Project.

```
[HttpPut("{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<IActionResult> PutProject(int id, Project project)
```

## Parameters

**id** [int](#)

The ID of the Project to be updated.

**project** [Project](#)

The new Project that will replace the existing one.

## Returns

[Task](#)<[IActionResult](#)>

A status code depending on the results of the update.

# Class RisksController

Namespace: [T217 Capstone Project API.Controllers](#)

Assembly: T217 Capstone Project API.dll

API endpoint controller that manages all endpoints related to the Risks.

```
[Route("api/[controller]")]
[ApiController]
public class RisksController : ControllerBase
```

## Inheritance

[object](#) ←  [ControllerBase](#) ← RisksController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) ,  [ControllerBase.StatusCode\(int, object\)](#) ,  
 [ControllerBase.Content\(string\)](#) ,  [ControllerBase.Content\(string, string\)](#) ,  
 [ControllerBase.Content\(string, string, Encoding\)](#) ,  
 [ControllerBase.Content\(string, MediaTypeHeaderValue\)](#) ,  [ControllerBase.NoContent\(\)](#) ,  
 [ControllerBase.Ok\(\)](#) ,  [ControllerBase.Ok\(object\)](#) ,  [ControllerBase.Redirect\(string\)](#) ,  
 [ControllerBase.RedirectPermanent\(string\)](#) ,  [ControllerBase.RedirectPreserveMethod\(string\)](#) ,  
 [ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) ,  [ControllerBase.LocalRedirect\(string\)](#) ,  
 [ControllerBase.LocalRedirectPermanent\(string\)](#) ,  [ControllerBase.LocalRedirectPreserveMethod\(string\)](#) ,  
 [ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#) ,  [ControllerBase.RedirectToAction\(\)](#) ,  
 [ControllerBase.RedirectToAction\(string\)](#) ,  [ControllerBase.RedirectToAction\(string, object\)](#) ,  
 [ControllerBase.RedirectToAction\(string, string\)](#) ,  
 [ControllerBase.RedirectToAction\(string, string, object\)](#) ,  
 [ControllerBase.RedirectToAction\(string, string, string\)](#) ,  
 [ControllerBase.RedirectToAction\(string, string, object, string\)](#) ,  
 [ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, object\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, string\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, string\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object\)](#) ,  
 [ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#) ,  
 [ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#) ,  
 [ControllerBase.RedirectToRoute\(string\)](#) ,  [ControllerBase.RedirectToRoute\(object\)](#) ,  
 [ControllerBase.RedirectToRoute\(string, object\)](#) ,  [ControllerBase.RedirectToRoute\(string, string\)](#) ,

[ControllerBase.RedirectToRoute\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToPage\(string, string\)](#)  ,  [ControllerBase.RedirectToPage\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
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 [ControllerBase.File\(byte\[\], string, string\)](#)  ,  [ControllerBase.File\(byte\[\], string, string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
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 [ControllerBase.File\(Stream, string, string\)](#)  ,  [ControllerBase.File\(Stream, string, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
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 [ControllerBase.File\(string, string, string, DateTimeOffset?\)](#)  ,  
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 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.PhysicalFile\(string, string, string\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,

[ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.Unauthorized\(\)](#) ,  [ControllerBase.Unauthorized\(object\)](#) ,  [ControllerBase.NotFound\(\)](#) ,  
 [ControllerBase.NotFound\(object\)](#) ,  [ControllerBase.BadRequest\(\)](#) ,  
 [ControllerBase.BadRequest\(object\)](#) ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#) ,  
 [ControllerBase.UnprocessableEntity\(\)](#) ,  [ControllerBase.UnprocessableEntity\(object\)](#) ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#) ,  [ControllerBase.Conflict\(\)](#) ,  
 [ControllerBase.Conflict\(object\)](#) ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string, IDictionary<string, object>\)](#) ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#) ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#) ,  [ControllerBase.ValidationProblem\(\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary, IDictionary<string, object>\)](#) ,  
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 [ControllerBase.CreatedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#) ,  [ControllerBase.CreatedAtRoute\(object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Accepted\(\)](#) ,  
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 [ControllerBase.Accepted\(string, object\)](#) ,  [ControllerBase.Accepted\(Uri, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string\)](#) ,  [ControllerBase.AcceptedAtAction\(string, string\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(object\)](#) ,  [ControllerBase.AcceptedAtRoute\(string\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object\)](#) ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
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 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,

[ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### RisksController(IRisksRepository)

```
public RisksController(IRisksRepository repo)
```

#### Parameters

repo [IRisksRepository](#)

## Methods

### DeleteEnvironmentalRisk(int)

Removes the EnvironmentalRisks with the matching ID from the database if the user has the required authorisation.

```
[HttpDelete("DeleteEnvironmentalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult> DeleteEnvironmentalRisk(int id)
```

## Parameters

**id** [int](#)

The ID of the EnvironmentalRisks to be deleted.

## Returns

[Task](#) <[ActionResult](#)>

A status code depending on the results of the deletion.

## DeleteInterpersonalRisk(int)

Removes the InterpersonalRisks with the matching ID from the database if the user has the required authorisation.

```
[HttpDelete("DeleteInterpersonalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult> DeleteInterpersonalRisk(int id)
```

## Parameters

**id** [int](#)

The ID of the InterpersonalRisks to be deleted.

## Returns

[Task](#) <[ActionResult](#)>

A status code depending on the results of the deletion.

## DeletePersonalRisk(int)

Removes the PersonalRisks with the matching ID from the database if the user has the required authorisation.

```
[HttpDelete("DeletePersonalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult> DeletePersonalRisk(int id)
```

### Parameters

**id** [int](#)

The ID of the PersonalRisks to be deleted.

### Returns

[Task](#) <[ActionResult](#)>

A status code depending on the results of the deletion.

## DeleteProjectRisk(int)

Removes the ProjectRisks with the matching ID from the database if the user has the required authorisation.

```
[HttpDelete("DeleteProjectRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult> DeleteProjectRisk(int id)
```

### Parameters

**id** [int](#)

The ID of the ProjectRisks to be deleted.

### Returns

[Task](#) <[ActionResult](#)>

A status code depending on the results of the deletion.

## GetEnvironmentalRisk(int)

Gets the EnvironmentalRisks with the matching ID if the user has the required authorisation.

```
[HttpGet("GetEnvironmentalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<EnvironmentalRisks>> GetEnvironmentalRisk(int id)
```

### Parameters

**id** [int](#)

The ID of the EnvironmentalRisks.

### Returns

[Task](#) <[ActionResult](#) <[EnvironmentalRisks](#)>>

The EnvironmentalRisks with the matching ID, or a 404 Not Found status code.

## GetEnvironmentalRiskByStakeholder(int)

Gets the EnvironmentalRisks associated with the supplied StakeholderID if the user has the required authorisation.

```
[HttpGet("GetEnvironmentalRiskByStakeholder/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<EnvironmentalRisks>> GetEnvironmentalRiskByStakeholder(int id)
```

### Parameters

**id** [int](#)

The ID of the Stakeholder

### Returns

[Task](#) <[ActionResult](#) <[EnvironmentalRisks](#)>>

The EnvironmentalRisks associated with the Stakeholder, or a 404 Not Found status code.

## GetInterpersonalRisk(int)

Gets the InterpersonalRisks with the matching ID if the user has the required authorisation.

```
[HttpGet("GetInterpersonalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<InterpersonalRisks>> GetInterpersonalRisk(int id)
```

### Parameters

**id** [int](#)

The ID of the InterpersonalRisks.

### Returns

[Task](#) <[ActionResult](#) <[InterpersonalRisks](#)>>

The InterpersonalRisks with the matching ID, or a 404 Not Found status code.

## GetInterpersonalRiskByStakeholder(int)

Gets the InterpersonalRisks associated with the supplied StakeholderID if the user has the required authorisation.

```
[HttpGet("GetInterpersonalRiskByStakeholder/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<InterpersonalRisks>> GetInterpersonalRiskByStakeholder(int id)
```

### Parameters

**id** [int](#)

The ID of the Stakeholder

### Returns

[Task](#) <[ActionResult](#) <[InterpersonalRisks](#)>>

The InterpersonalRisks associated with the Stakeholder, or a 404 Not Found status code.

## GetPersonalRisk(int)

Gets the PersonalRisks with the matching ID if the user has the required authorisation.

```
[HttpGet("GetPersonalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<PersonalRisks>> GetPersonalRisk(int id)
```

Parameters

**id** [int](#)

The ID of the PersonalRisks.

Returns

[Task](#) <[ActionResult](#) <[PersonalRisks](#)>>

The PersonalRisks with the matching ID, or a 404 Not Found status code.

## GetPersonalRiskByStakeholder(int)

Gets the PersonalRisks associated with the supplied StakeholderID if the user has the required authorisation.

```
[HttpGet("GetPersonalRiskByStakeholder/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<PersonalRisks>> GetPersonalRiskByStakeholder(int id)
```

Parameters

**id** [int](#)

The ID of the Stakeholder

Returns

[Task](#) <[ActionResult](#) <[PersonalRisks](#)>>

The PersonalRisks associated with the Stakeholder, or a 404 Not Found status code.

## GetProjectRisk(int)

Gets the ProjectRisks with the matching ID if the user has the required authorisation.

```
[HttpGet("GetProjectRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<ProjectRisks>> GetProjectRisk(int id)
```

### Parameters

**id** [int](#)

The ID of the ProjectRisks.

### Returns

[Task](#) <[ActionResult](#) <[ProjectRisks](#)>>

The ProjectRisks with the matching ID, or a 404 Not Found status code.

## GetProjectRisksByProjectID(int)

Gets the ProjectRisks associated with the supplied ProjectID if the user has the required authorisation.

```
[HttpGet("GetProjectRisksByProjectID/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<ProjectRisks>> GetProjectRisksByProjectID(int id)
```

### Parameters

**id** [int](#)

The ID of the Project

### Returns

[Task](#) <[ActionResult](#) <[ProjectRisks](#)>>

The ProjectRisks associated with the Project, or a 404 Not Found status code.

## GetStakeholderRisksByStakeholder(int)

Gets the EnvironmentalRisks, InterpersonalRisks, and PersonalRisks associated with the supplied StakeholderID if the user has the required authorisation.

```
[HttpGet("GetStakeholderRisksByStakeholder/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<StakeholderRisksDTO>> GetStakeholderRisksByStakeholder(int id)
```

### Parameters

**id** [int](#)

The ID of the Stakeholder

### Returns

[Task](#) <[ActionResult](#) <[StakeholderRisksDTO](#)>>

The EnvironmentalRisks, InterpersonalRisks, and PersonalRisks associated with the StakeholderID, or a 404 Not Found status code.

## PostEnvironmentalRisk(EnvironmentalRisksDTO)

Creates a new EnvironmentalRisks with values supplied in the EnvironmentalRisksDTO if the user has the required authorisation.

```
[HttpPost("PostEnvironmentalRisk")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<EnvironmentalRisks>> PostEnvironmentalRisk(EnvironmentalRisksDTO envRisk)
```

### Parameters

**envRisk** [EnvironmentalRisksDTO](#)

The EnvironmentalRisksDTO that will be used to create the EnvironmentalRisks

### Returns

[Task](#) <ActionResult<EnvironmentalRisks>>

The newly created EnvironmentalRisks

## PostInterpersonalRisk(InterpersonalRisksDTO)

Creates a new InterpersonalRisks with values supplied in the InterpersonalRisksDTO if the user has the required authorisation.

```
[HttpPost("PostInterpersonalRisk")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<InterpersonalRisks>> PostInterpersonalRisk(InterpersonalRisksDTO
interRisk)
```

Parameters

interRisk [InterpersonalRisksDTO](#)

The InterpersonalRisksDTO that will be used to create the InterpersonalRisks

Returns

[Task](#) <ActionResult<InterpersonalRisks>>

The newly created InterpersonalRisks

## PostPersonalRisk(PersonalRisksDTO)

Creates a new PersonalRisks with values supplied in the PersonalRisksDTO if the user has the required authorisation.

```
[HttpPost("PostPersonalRisk")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<PersonalRisks>> PostPersonalRisk(PersonalRisksDTO personRisk)
```

Parameters

personRisk [PersonalRisksDTO](#)

The PersonalRisksDTO that will be used to create the PersonalRisks

Returns

[Task](#) <ActionResult<PersonalRisks>>

The newly created PersonalRisks

## PostProjectRisk(ProjectRisksDTO)

Creates a new ProjectRisks with values supplied in the ProjectRisksDTO if the user has the required authorisation.

```
[HttpPost("PostProjectRisk")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<ProjectRisks>> PostProjectRisk(ProjectRisksDTO projectRisk)
```

Parameters

projectRisk [ProjectRisksDTO](#)

The ProjectRisksDTO that will be used to create the ProjectRisks

Returns

[Task](#) <ActionResult<ProjectRisks>>

The newly created ProjectRisks

## PutEnvironmentalRisk(int, EnvironmentalRisks)

Updates the EnvironmentalRisks with the supplied ID with the new EnvironmentalRisks if the user has the required authorisation.

```
[HttpPut("PutEnvironmentalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<IActionResult> PutEnvironmentalRisk(int id, EnvironmentalRisks
environmentalRisk)
```

Parameters

**id** [int](#)

The ID of the EnvironmentalRisks that will be replaced.

**environmentalRisk** [EnvironmentalRisks](#)

The new EnvironmentalRisks that will replace the existing one

Returns

[Task](#) <[IActionResult](#)>

A status code depending on the results of the update.

## PutInterpersonalRisk(int, InterpersonalRisks)

Updates the InterpersonalRisks with the supplied ID with the new InterpersonalRisks if the user has the required authorisation.

```
[HttpPost("PutInterpersonalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<IActionResult> PutInterpersonalRisk(int id, InterpersonalRisks
interpersonalRisk)
```

Parameters

**id** [int](#)

The ID of the InterpersonalRisks that will be replaced.

**interpersonalRisk** [InterpersonalRisks](#)

The new InterpersonalRisks that will replace the existing one

Returns

[Task](#) <[IActionResult](#)>

A status code depending on the results of the update.

## PutPersonalRisk(int, PersonalRisks)

Updates the PersonalRisks with the supplied ID with the new PersonalRisks if the user has the required authorisation.

```
[HttpPut("PutPersonalRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<IActionResult> PutPersonalRisk(int id, PersonalRisks personalRisk)
```

## Parameters

**id** [int](#)

The ID of the PersonalRisks that will be replaced.

**personalRisk** [PersonalRisks](#)

The new PersonalRisks that will replace the existing one

## Returns

[Task](#)<[IActionResult](#)>

A status code depending on the results of the update.

## PutProjectRisk(int, ProjectRisks)

Updates the PutProjectRisk with the supplied ID with the new PutProjectRisk if the user has the required authorisation.

```
[HttpPut("PutProjectRisk/{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult> PutProjectRisk(int id, ProjectRisks projectRisk)
```

## Parameters

**id** [int](#)

The ID of the PutProjectRisk that will be replaced.

**projectRisk** [ProjectRisks](#)

The new PutProjectRisk that will replace the existing one

## Returns

[Task](#) <[ActionResult](#)>

A status code depending on the results of the update.

# Class StakeholdersController

Namespace: [T217 Capstone Project API.Controllers](#)

Assembly: T217 Capstone Project API.dll

API endpoint controller that manages all endpoints related to Stakeholders.

```
[Route("api/[controller]")]
[ApiController]
public class StakeholdersController : ControllerBase
```

## Inheritance

[object](#) ← [ControllerBase](#) ← StakeholdersController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) , [ControllerBase.StatusCode\(int, object\)](#) ,  
[ControllerBase.Content\(string\)](#) , [ControllerBase.Content\(string, string\)](#) ,  
[ControllerBase.Content\(string, string, Encoding\)](#) ,  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#) , [ControllerBase.NoContent\(\)](#) ,  
[ControllerBase.Ok\(\)](#) , [ControllerBase.Ok\(object\)](#) , [ControllerBase.Redirect\(string\)](#) ,  
[ControllerBase.RedirectPermanent\(string\)](#) , [ControllerBase.RedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.LocalRedirect\(string\)](#) ,  
[ControllerBase.LocalRedirectPermanent\(string\)](#) , [ControllerBase.LocalRedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.RedirectToAction\(\)](#) ,  
[ControllerBase.RedirectToAction\(string\)](#) , [ControllerBase.RedirectToAction\(string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToRoute\(string\)](#) , [ControllerBase.RedirectToRoute\(object\)](#) ,  
[ControllerBase.RedirectToRoute\(string, object\)](#) , [ControllerBase.RedirectToRoute\(string, string\)](#) ,

[ControllerBase.RedirectToRoute\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string\)](#)  ,  [ControllerBase.RedirectToPage\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string\)](#)  ,  [ControllerBase.RedirectToPage\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#)  ,  
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 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.File\(byte\[\], string\)](#)  ,  [ControllerBase.File\(byte\[\], string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string\)](#)  ,  [ControllerBase.File\(byte\[\], string, string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string\)](#)  ,  [ControllerBase.File\(Stream, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string\)](#)  ,  [ControllerBase.File\(Stream, string, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
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 [ControllerBase.PhysicalFile\(string, string, string\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,

[ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.Unauthorized\(\)](#) ,  [ControllerBase.Unauthorized\(object\)](#) ,  [ControllerBase.NotFound\(\)](#) ,  
 [ControllerBase.NotFound\(object\)](#) ,  [ControllerBase.BadRequest\(\)](#) ,  
 [ControllerBase.BadRequest\(object\)](#) ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#) ,  
 [ControllerBase.UnprocessableEntity\(\)](#) ,  [ControllerBase.UnprocessableEntity\(object\)](#) ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#) ,  [ControllerBase.Conflict\(\)](#) ,  
 [ControllerBase.Conflict\(object\)](#) ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string, IDictionary<string, object>\)](#) ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#) ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#) ,  [ControllerBase.ValidationProblem\(\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary, IDictionary<string, object>\)](#) ,  
 [ControllerBase.Created\(\)](#) ,  [ControllerBase.Created\(string, object\)](#) ,  
 [ControllerBase.Created\(Uri, object\)](#) ,  [ControllerBase.CreatedAtAction\(string, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#) ,  [ControllerBase.CreatedAtRoute\(object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Accepted\(\)](#) ,  
 [ControllerBase.Accepted\(object\)](#) ,  [ControllerBase.Accepted\(Uri\)](#) ,  [ControllerBase.Accepted\(string\)](#) ,  
 [ControllerBase.Accepted\(string, object\)](#) ,  [ControllerBase.Accepted\(Uri, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string\)](#) ,  [ControllerBase.AcceptedAtAction\(string, string\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(object\)](#) ,  [ControllerBase.AcceptedAtRoute\(string\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object\)](#) ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal\)](#) ,  [ControllerBase.SignIn\(ClaimsPrincipal, string\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,

[ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### StakeholdersController(IStakeholderRepository)

```
public StakeholdersController(IStakeholderRepository repo)
```

## Parameters

repo [IStakeholderRepository](#)

## Methods

### DeleteStakeholder(int)

Removes the Stakeholder with the matching ID from the database if the user has the required authorisation.

```
[HttpDelete("{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<IActionResult> DeleteStakeholder(int id)
```

## Parameters

**id** [int](#)

The ID of the Stakeholder to be deleted.

## Returns

[Task](#) <[IActionResult](#)>

A status code depending on the results of the deletion.

## GetStakeholder(int)

Gets the Stakeholder with the associated ID, and returns it if the user has the required authorisation.

```
[HttpGet("{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<Stakeholder>> GetStakeholder(int id)
```

## Parameters

**id** [int](#)

The ID of the desired Stakeholder.

## Returns

[Task](#) <[ActionResult](#)> <[Stakeholder](#)>

The Stakeholder with the matching ID, or a 404 Not Found status code.

## GetStakeholderByProjectID(int)

Gets a list of Stakeholders associated with the ProjectID, and returns it if the user has the required authorisation.

```
[HttpGet("GetByProjectID")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<IEnumerable<Stakeholder>>> GetStakeholderByProjectID(int projectId)
```

### Parameters

**projectId** [int](#)

The ID of the associated Project.

### Returns

[Task](#) <[ActionResult](#) <[IEnumerable](#) <[Stakeholder](#)>>>

The list of Stakeholders associated with the ProjectID, or a 404 Not Found status code.

## GetStakeholders()

Gets a list of all the Stakeholders that the user associated with the included API Key in the header has access to read.

```
[HttpGet]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<IEnumerable<Stakeholder>>> GetStakeholders()
```

### Returns

[Task](#) <[ActionResult](#) <[IEnumerable](#) <[Stakeholder](#)>>>

An list of the Stakeholders the user has access to, or a 404 Not Found status code.

## PostStakeholder(StakeholderDTO)

Creates a new Stakeholder with the values supplied in the StakeholderDTO.

```
[HttpPost]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<ActionResult<Stakeholder>> PostStakeholder(StakeholderDTO stakeholder)
```

## Parameters

**stakeholder** [StakeholderDTO](#)

The StakeholderDTO to be created.

## Returns

[Task](#) <[ActionResult](#) <[Stakeholder](#)>>

The newly created Stakeholder.

## PutStakeholder(int, Stakeholder)

Updates the Stakeholder with the supplied ID with the new Stakeholder if the user has the required authorisation. The ID must match the StakeholderID of the supplied Stakeholder.

```
[HttpPut("{id}")]
[ServiceFilter(typeof(UserAuthenticationFilter))]
public Task<IActionResult> PutStakeholder(int id, Stakeholder stakeholder)
```

## Parameters

**id** [int](#)

The ID of the Stakeholder to be updated.

**stakeholder** [Stakeholder](#)

The new Stakeholder that will replace the existing one.

## Returns

[Task](#) <[IActionResult](#)>

A status code depending on the results of the update.

# Class UsersController

Namespace: [T217 Capstone Project API.Controllers](#)

Assembly: T217 Capstone Project API.dll

API endpoint controller that manages all endpoints related to Users.

```
[Route("api/[controller]")]
[ApiController]
public class UsersController : ControllerBase
```

## Inheritance

[object](#) ← [ControllerBase](#) ← UsersController

## Inherited Members

[ControllerBase.StatusCode\(int\)](#) , [ControllerBase.StatusCode\(int, object\)](#) ,  
[ControllerBase.Content\(string\)](#) , [ControllerBase.Content\(string, string\)](#) ,  
[ControllerBase.Content\(string, string, Encoding\)](#) ,  
[ControllerBase.Content\(string, MediaTypeHeaderValue\)](#) , [ControllerBase.NoContent\(\)](#) ,  
[ControllerBase.Ok\(\)](#) , [ControllerBase.Ok\(object\)](#) , [ControllerBase.Redirect\(string\)](#) ,  
[ControllerBase.RedirectPermanent\(string\)](#) , [ControllerBase.RedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.RedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.LocalRedirect\(string\)](#) ,  
[ControllerBase.LocalRedirectPermanent\(string\)](#) , [ControllerBase.LocalRedirectPreserveMethod\(string\)](#) ,  
[ControllerBase.LocalRedirectPermanentPreserveMethod\(string\)](#) , [ControllerBase.RedirectToAction\(\)](#) ,  
[ControllerBase.RedirectToAction\(string\)](#) , [ControllerBase.RedirectToAction\(string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, string\)](#) ,  
[ControllerBase.RedirectToAction\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, string\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object\)](#) ,  
[ControllerBase.RedirectToActionPermanent\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToActionPermanentPreserveMethod\(string, string, object, string\)](#) ,  
[ControllerBase.RedirectToRoute\(string\)](#) , [ControllerBase.RedirectToRoute\(object\)](#) ,  
[ControllerBase.RedirectToRoute\(string, object\)](#) , [ControllerBase.RedirectToRoute\(string, string\)](#) ,

[ControllerBase.RedirectToRoute\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanent\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToRoutePermanentPreserveMethod\(string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string\)](#)  ,  [ControllerBase.RedirectToPage\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string\)](#)  ,  [ControllerBase.RedirectToPage\(string, string, object\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPage\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, object\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanent\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.RedirectToPagePermanentPreserveMethod\(string, string, object, string\)](#)  ,  
 [ControllerBase.File\(byte\[\], string\)](#)  ,  [ControllerBase.File\(byte\[\], string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string\)](#)  ,  [ControllerBase.File\(byte\[\], string, string, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(byte\[\], string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string\)](#)  ,  [ControllerBase.File\(Stream, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string\)](#)  ,  [ControllerBase.File\(Stream, string, string, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(Stream, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string\)](#)  ,  [ControllerBase.File\(string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string\)](#)  ,  [ControllerBase.File\(string, string, string, bool\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#)  ,  
 [ControllerBase.File\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string\)](#)  ,  [ControllerBase.PhysicalFile\(string, string, bool\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string\)](#)  ,  
 [ControllerBase.PhysicalFile\(string, string, string, bool\)](#)  ,

[ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue\)](#) ,  
 [ControllerBase.PhysicalFile\(string, string, string, DateTimeOffset?, EntityTagHeaderValue, bool\)](#) ,  
 [ControllerBase.Unauthorized\(\)](#) ,  [ControllerBase.Unauthorized\(object\)](#) ,  [ControllerBase.NotFound\(\)](#) ,  
 [ControllerBase.NotFound\(object\)](#) ,  [ControllerBase.BadRequest\(\)](#) ,  
 [ControllerBase.BadRequest\(object\)](#) ,  [ControllerBase.BadRequest\(ModelStateDictionary\)](#) ,  
 [ControllerBase.UnprocessableEntity\(\)](#) ,  [ControllerBase.UnprocessableEntity\(object\)](#) ,  
 [ControllerBase.UnprocessableEntity\(ModelStateDictionary\)](#) ,  [ControllerBase.Conflict\(\)](#) ,  
 [ControllerBase.Conflict\(object\)](#) ,  [ControllerBase.Conflict\(ModelStateDictionary\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string\)](#) ,  
 [ControllerBase.Problem\(string, string, int?, string, string, IDictionary<string, object>\)](#) ,  
 [ControllerBase.ValidationProblem\(ValidationProblemDetails\)](#) ,  
 [ControllerBase.ValidationProblem\(ModelStateDictionary\)](#) ,  [ControllerBase.ValidationProblem\(\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary\)](#) ,  
 [ControllerBase.ValidationProblem\(string, string, int?, string, string, ModelStateDictionary, IDictionary<string, object>\)](#) ,  
 [ControllerBase.Created\(\)](#) ,  [ControllerBase.Created\(string, object\)](#) ,  
 [ControllerBase.Created\(Uri, object\)](#) ,  [ControllerBase.CreatedAtAction\(string, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.CreatedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object\)](#) ,  [ControllerBase.CreatedAtRoute\(object, object\)](#) ,  
 [ControllerBase.CreatedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Accepted\(\)](#) ,  
 [ControllerBase.Accepted\(object\)](#) ,  [ControllerBase.Accepted\(Uri\)](#) ,  [ControllerBase.Accepted\(string\)](#) ,  
 [ControllerBase.Accepted\(string, object\)](#) ,  [ControllerBase.Accepted\(Uri, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string\)](#) ,  [ControllerBase.AcceptedAtAction\(string, string\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtAction\(string, string, object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(object\)](#) ,  [ControllerBase.AcceptedAtRoute\(string\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object\)](#) ,  [ControllerBase.AcceptedAtRoute\(object, object\)](#) ,  
 [ControllerBase.AcceptedAtRoute\(string, object, object\)](#) ,  [ControllerBase.Challenge\(\)](#) ,  
 [ControllerBase.Challenge\(params string\[\]\)](#) ,  [ControllerBase.Challenge\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Challenge\(AuthenticationProperties, params string\[\]\)](#) ,  [ControllerBase.Forbid\(\)](#) ,  
 [ControllerBase.Forbid\(params string\[\]\)](#) ,  [ControllerBase.Forbid\(AuthenticationProperties\)](#) ,  
 [ControllerBase.Forbid\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal\)](#) ,  [ControllerBase.SignIn\(ClaimsPrincipal, string\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties\)](#) ,  
 [ControllerBase.SignIn\(ClaimsPrincipal, AuthenticationProperties, string\)](#) ,  [ControllerBase.SignOut\(\)](#) ,

[ControllerBase.SignOut\(AuthenticationProperties\)](#) ,  [ControllerBase.SignOut\(params string\[\]\)](#) ,  
 [ControllerBase.SignOut\(AuthenticationProperties, params string\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, params Expression<Func<TModel, object>>\[\]\)](#) ,  
 [ControllerBase.TryUpdateModelAsync<TModel>\(TModel, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string\)](#) ,  
 [ControllerBase.TryUpdateModelAsync\(object, Type, string, IValueProvider, Func<ModelMetadata, bool>\)](#) ,  
 [ControllerBase.TryValidateModel\(object\)](#) ,  [ControllerBase.TryValidateModel\(object, string\)](#) ,  
 [ControllerBase.HttpContext](#) ,  [ControllerBase.Request](#) ,  [ControllerBase.Response](#) ,  
 [ControllerBase.RouteData](#) ,  [ControllerBase.ModelState](#) ,  [ControllerBase.ControllerContext](#) ,  
 [ControllerBase.MetadataProvider](#) ,  [ControllerBase.ModelBinderFactory](#) ,  [ControllerBase.Url](#) ,  
 [ControllerBase.ObjectValidator](#) ,  [ControllerBase.ProblemDetailsFactory](#) ,  [ControllerBase.User](#) ,  
 [ControllerBase.Empty](#) ,  [object.Equals\(object\)](#) ,  [object.Equals\(object, object\)](#) ,  
 [object.GetHashCode\(\)](#) ,  [object.GetType\(\)](#) ,  [object.MemberwiseClone\(\)](#) ,  
 [object.ReferenceEquals\(object, object\)](#) ,  [object.ToString\(\)](#)

## Constructors

### UsersController(IUserRepository)

```
public UsersController(IUserRepository repo)
```

#### Parameters

repo [IUserRepository](#)

## Methods

### DeleteSelf()

Deletes the User associated with the included API key.

```
[HttpDelete]  
[ServiceFilter(typeof(UserAuthenticationFilter))]  
public Task<ActionResult> DeleteSelf()
```

Returns

[Task](#) <[ActionResult](#)>

204 No Content status code, or 404 Not Found status code if the User doesn't exist.

## GetApiKey(LoginDTO)

Gets the API key associated with the User with the matching login details.

```
[HttpPost("GetApiKey")]  
[AllowAnonymous]  
public Task<ActionResult<string>> GetApiKey(LoginDTO login)
```

Parameters

[login](#) [LoginDTO](#)

Returns

[Task](#) <[ActionResult](#) <[string](#)>>

The API key of the associated User.

## GetUserDetails()

Returns the UserDetails of the User associated with the included API key.

```
[HttpGet("GetUserDetails")]  
[ServiceFilter(typeof(UserAuthenticationFilter))]  
public Task<ActionResult<UserDetailsDTO>> GetUserDetails()
```

Returns

[Task](#) <[ActionResult](#) <[UserDetailsDTO](#)>>

The UserDetails of the User.

## PostUser(CreateUserDTO)

Creates a new User with the supplied CreateUserDTO. Email must be unique.

```
[HttpPost]  
[AllowAnonymous]  
public Task<ActionResult<User>> PostUser(CreateUserDTO user)
```

Parameters

**user** [CreateUserDTO](#)

The User to be created.

Returns

[Task](#) <[ActionResult](#) <[User](#)>>

A 201 Created status code, or a 409 Conflict status code if the email already exists.

## UpdateSelf(User)

Replaces the User associated with the included API key with the new User.

```
[HttpPut("UpdateSelf")]  
[ServiceFilter(typeof(UserAuthenticationFilter))]  
public Task<IActionResult> UpdateSelf(User user)
```

Parameters

**user** [User](#)

The User to replace the existing one.

## Returns

[Task](#) <[IActionResult](#)>

A status code depending on the results of the update.

# Namespace T217\_Capstone\_Project\_API. Migrations

## Classes

### [initial](#)

A base class inherited by each EF Core migration.

# Class initial

Namespace: [T217 Capstone Project API.Migrations](#)

Assembly: T217 Capstone Project API.dll

A base class inherited by each EF Core migration.

```
[DbContext(typeof(StakeholderRisksContext))]
[Migration("20250522200421_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 T217\_Capstone\_Project\_API.Models

## Classes

[User](#)

# Class User

Namespace: [T217 Capstone Project API.Models](#)

Assembly: T217 Capstone Project API.dll

```
public class User
```

## Inheritance

[object](#) ← User

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## ApiKey

[Required]  
public string ApiKey { get; set; }

## Property Value

[string](#)

## Password

[Required]  
public string Password { get; set; }

## Property Value

[string](#)

## UserEmail

```
[Required]  
public string UserEmail { get; set; }
```

Property Value

[string](#) ↗

## UserFirstName

```
[Required]  
public string UserFirstName { get; set; }
```

Property Value

[string](#) ↗

## UserID

```
[Key]  
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]  
[Required]  
public int UserID { get; set; }
```

Property Value

[int](#) ↗

## UserLastName

```
[Required]  
public string UserLastName { get; set; }
```

Property Value

[string](#) ↗

# Namespace T217\_Capstone\_Project\_API. Models.DTO

## Classes

[ProjectUserPermissionsDTO](#)

# Class ProjectUserPermissionsDTO

Namespace: [T217 Capstone Project API.Models.DTO](#)

Assembly: T217 Capstone Project API.dll

```
public class ProjectUserPermissionsDTO
```

## Inheritance

[object](#) ← ProjectUserPermissionsDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## CanEdit

```
public bool CanEdit { get; set; }
```

### Property Value

[bool](#)

## CanRead

```
public bool CanRead { get; set; }
```

### Property Value

[bool](#)

## CanWrite

```
public bool CanWrite { get; set; }
```

Property Value

[bool](#) ↗

# Namespace T217\_Capstone\_Project\_API. Models.DTO.ProjectDTOs

## Classes

[ProjectDTO](#)

[StakeholderDTO](#)

# Class ProjectDTO

Namespace: [T217 Capstone Project API.Models.DTO.ProjectDTOs](#)

Assembly: T217 Capstone Project API.dll

```
public class ProjectDTO
```

## Inheritance

[object](#) ← ProjectDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## ProjectDescription

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

### Property Value

[string](#)

## ProjectName

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

### Property Value

[string](#)

## ProjectStage

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

Property Value

[string](#) ↗

Status

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

Property Value

[string](#) ↗

# Class StakeholderDTO

Namespace: [T217 Capstone Project API.Models.DTO.ProjectDTOs](#)

Assembly: T217 Capstone Project API.dll

```
public class StakeholderDTO
```

## Inheritance

[object](#) ← StakeholderDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## BlobID

```
public int BlobID { get; set; }
```

### Property Value

[int](#)

## CaFI

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

### Property Value

[string](#)

## Description

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

Property Value

[string](#)

## ProjectID

```
public int ProjectID { get; set; }
```

Property Value

[int](#)

## StakeholderName

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

Property Value

[string](#)

# Namespace T217\_Capstone\_Project\_API. Models.DTO.RisksDTOs

## Classes

[StakeholderRisksDTO](#)

# Class StakeholderRisksDTO

Namespace: [T217 Capstone Project API.Models.DTO.RisksDTOs](#)

Assembly: T217 Capstone Project API.dll

```
public class StakeholderRisksDTO
```

## Inheritance

[object](#) ← StakeholderRisksDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## BlobID

```
public int BlobID { get; set; }
```

## Property Value

[int](#)

## EnvironmentalRisk

```
public EnvironmentalRisks EnvironmentalRisk { get; set; }
```

## Property Value

[EnvironmentalRisks](#)

## InterpersonalRisk

```
public InterpersonalRisks InterpersonalRisk { get; set; }
```

Property Value

[InterpersonalRisks](#)

## PersonalRisk

```
public PersonalRisks PersonalRisk { get; set; }
```

Property Value

[PersonalRisks](#)

# Namespace T217\_Capstone\_Project\_API. Models.DTO.UserDTOs

## Classes

[CreateUserDTO](#)

[LoginDTO](#)

[UserDetailsDTO](#)

# Class CreateUserDTO

Namespace: [T217 Capstone Project API.Models.DTO.UserDTOs](#)

Assembly: T217 Capstone Project API.dll

```
public class CreateUserDTO
```

## Inheritance

[object](#) ← CreateUserDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Password

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

## Property Value

[string](#)

## UserEmail

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

## Property Value

[string](#)

## UserFirstName

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

Property Value

[string](#) ↗

## UserLastName

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

Property Value

[string](#) ↗

# Class LoginDTO

Namespace: [T217 Capstone Project API.Models.DTO.UserDTOs](#)

Assembly: T217 Capstone Project API.dll

```
public class LoginDTO
```

## Inheritance

[object](#) ← LoginDTO

## 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](#)

## Password

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

## Property Value

[string](#)

# Class UserDetailsDTO

Namespace: [T217 Capstone Project API.Models.DTO.UserDTOs](#)

Assembly: T217 Capstone Project API.dll

```
public class UserDetailsDTO
```

## Inheritance

[object](#) ← UserDetailsDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Constructors

## UserDetailsDTO(string, string, string)

```
public UserDetailsDTO(string userEmail, string userFirstName, string userLastName)
```

## Parameters

userEmail [string](#)

userFirstName [string](#)

userLastName [string](#)

# Properties

## UserEmail

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

## Property Value

[string](#)

## UserFirstName

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

Property Value

[string](#)

## UserLastName

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

Property Value

[string](#)

# Namespace T217\_Capstone\_Project\_API. Models.Projects

## Classes

[Project](#)

[ProjectUser](#)

[Stakeholder](#)

# Class Project

Namespace: [T217 Capstone Project API.Models.Projects](#)

Assembly: T217 Capstone Project API.dll

```
public class Project
```

## Inheritance

[object](#) ← Project

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## CreatedDateTime

[Required]  
public DateTime CreatedDateTime { get; set; }

Property Value

[DateTime](#)

## EditDateTime

[Required]  
public DateTime EditDateTime { get; set; }

Property Value

[DateTime](#)

## ProjectDescription

```
[Required]  
public string ProjectDescription { get; set; }
```

Property Value

[string](#) ↗

## ProjectID

```
[Key]  
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]  
[Required]  
public int ProjectID { get; set; }
```

Property Value

[int](#) ↗

## ProjectName

```
[Required]  
public string ProjectName { get; set; }
```

Property Value

[string](#) ↗

## Status

```
[Required]  
public string Status { get; set; }
```

Property Value

[string](#) ↗

# Class ProjectUser

Namespace: [T217 Capstone Project API.Models.Projects](#)

Assembly: T217 Capstone Project API.dll

```
public class ProjectUser
```

## Inheritance

[object](#) ← ProjectUser

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Constructors

## ProjectUser()

```
public ProjectUser()
```

## ProjectUser(int, int, bool, bool, bool, bool)

```
public ProjectUser(int userID, int projectID, bool canRead, bool canWrite, bool canEdit,  
bool isAdmin)
```

## Parameters

userID [int](#)

projectID [int](#)

canRead [bool](#)

canWrite [bool](#)

canEdit [bool](#)

`isAdmin` [bool](#)

## ProjectUser(int, int, int, bool, bool, bool, bool)

```
public ProjectUser(int projectUserID, int userID, int projectID, bool canRead, bool  
canWrite, bool canEdit, bool isAdmin)
```

### Parameters

`projectUserID` [int](#)

`userID` [int](#)

`projectID` [int](#)

`canRead` [bool](#)

`canWrite` [bool](#)

`canEdit` [bool](#)

`isAdmin` [bool](#)

## Properties

### CanEdit

[Required]

```
public bool CanEdit { get; set; }
```

### Property Value

[bool](#)

### CanRead

[Required]

```
public bool CanRead { get; set; }
```

Property Value

[bool](#) ↗

## CanWrite

```
[Required]  
public bool CanWrite { get; set; }
```

Property Value

[bool](#) ↗

## IsAdmin

```
[Required]  
public bool IsAdmin { get; set; }
```

Property Value

[bool](#) ↗

## Project

```
[JsonIgnore]  
public Project? Project { get; set; }
```

Property Value

[Project](#)

## ProjectID

```
[ForeignKey("ProjectID")]
[Required]
public int ProjectID { get; set; }
```

Property Value

[int ↗](#)

## ProjectUserID

```
[Key]
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]
[Required]
public int ProjectUserID { get; set; }
```

Property Value

[int ↗](#)

## User

```
[Required]
[JsonIgnore]
public User User { get; set; }
```

Property Value

[User](#)

## UserID

```
[ForeignKey("UserID")]
[Required]
public int UserID { get; set; }
```

## Property Value

[int ↗](#)

# Class Stakeholder

Namespace: [T217 Capstone Project API.Models.Projects](#)

Assembly: T217 Capstone Project API.dll

```
public class Stakeholder
```

## Inheritance

[object](#) ← Stakeholder

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## BlobID

```
public int BlobID { get; set; }
```

### Property Value

[int](#)

## CaFI

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

### Property Value

[string](#)

## CreatedDateTime

```
public DateTime CreatedDateTime { get; set; }
```

Property Value

[DateTime](#)

Description

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

Property Value

[string](#)

EditDateTime

```
public DateTime EditDateTime { get; set; }
```

Property Value

[DateTime](#)

Project

```
[JsonIgnore]  
public Project? Project { get; set; }
```

Property Value

[Project](#)

ProjectID

```
[ForeignKey("ProjectID")]
[Required]
public int ProjectID { get; set; }
```

Property Value

[int ↗](#)

## StakeholderID

```
[Key]
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]
[Required]
public int StakeholderID { get; set; }
```

Property Value

[int ↗](#)

## StakeholderName

```
[Required]
public string StakeholderName { get; set; }
```

Property Value

[string ↗](#)

# Namespace T217\_Capstone\_Project\_API. Models.Risks

## Classes

[EnvironmentalRisks](#)

[EnvironmentalRisksDTO](#)

[InterpersonalRisks](#)

[InterpersonalRisksDTO](#)

[PersonalRisks](#)

[PersonalRisksDTO](#)

[ProjectRisks](#)

[ProjectRisksDTO](#)

# Class EnvironmentalRisks

Namespace: [T217 Capstone Project API.Models.Risks](#)

Assembly: T217 Capstone Project API.dll

```
public class EnvironmentalRisks
```

## Inheritance

[object](#) ← EnvironmentalRisks

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## ChangeVolume

```
public int ChangeVolume { get; set; }
```

### Property Value

[int](#)

## Culture

```
public int Culture { get; set; }
```

### Property Value

[int](#)

## EnvironmentalRiskID

```
[Key]  
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]  
[Required]  
public int EnvironmentalRiskID { get; set; }
```

Property Value

[int ↗](#)

## Industry

```
public int Industry { get; set; }
```

Property Value

[int ↗](#)

## Infrastructure

```
public int Infrastructure { get; set; }
```

Property Value

[int ↗](#)

## Location

```
public int Location { get; set; }
```

Property Value

[int ↗](#)

## OfficePolitics

```
public int OfficePolitics { get; set; }
```

Property Value

[int ↗](#)

## Stakeholder

```
[JsonIgnore]  
public Stakeholder? Stakeholder { get; set; }
```

Property Value

[Stakeholder](#)

## StakeholderID

```
[ForeignKey("StakeholderID")]  
[Required]  
public int StakeholderID { get; set; }
```

Property Value

[int ↗](#)

# Class EnvironmentalRisksDTO

Namespace: [T217 Capstone Project API.Models.Risks](#)

Assembly: T217 Capstone Project API.dll

```
public class EnvironmentalRisksDTO
```

## Inheritance

[object](#) ← EnvironmentalRisksDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## ChangeVolume

```
public int ChangeVolume { get; set; }
```

### Property Value

[int](#)

## Culture

```
public int Culture { get; set; }
```

### Property Value

[int](#)

## Industry

```
public int Industry { get; set; }
```

Property Value

[int ↗](#)

## Infrastructure

```
public int Infrastructure { get; set; }
```

Property Value

[int ↗](#)

## Location

```
public int Location { get; set; }
```

Property Value

[int ↗](#)

## OfficePolitics

```
public int OfficePolitics { get; set; }
```

Property Value

[int ↗](#)

## StakeholderID

```
public int StakeholderID { get; set; }
```

Property Value

[int ↗](#)

# Class InterpersonalRisks

Namespace: [T217 Capstone Project API.Models.Risks](#)

Assembly: T217 Capstone Project API.dll

```
public class InterpersonalRisks
```

## Inheritance

[object](#) ← InterpersonalRisks

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Communication

```
public int Communication { get; set; }
```

## Property Value

[int](#)

## InterpersonalRiskID

```
[Key]  
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]  
[Required]  
public int InterpersonalRiskID { get; set; }
```

## Property Value

[int](#)

## Respect

```
public int Respect { get; set; }
```

Property Value

[int ↗](#)

## SharingSuccess

```
public int SharingSuccess { get; set; }
```

Property Value

[int ↗](#)

## Stakeholder

```
[JsonIgnore]  
public Stakeholder? Stakeholder { get; set; }
```

Property Value

[Stakeholder](#)

## StakeholderID

```
[ForeignKey("StakeholderID")]  
[Required]  
public int StakeholderID { get; set; }
```

Property Value

[int ↗](#)

## Support

```
public int Support { get; set; }
```

Property Value

[int ↗](#)

## SupportiveManagement

```
public int SupportiveManagement { get; set; }
```

Property Value

[int ↗](#)

## Trust

```
public int Trust { get; set; }
```

Property Value

[int ↗](#)

# Class InterpersonalRisksDTO

Namespace: [T217 Capstone Project API.Models.Risks](#)

Assembly: T217 Capstone Project API.dll

```
public class InterpersonalRisksDTO
```

## Inheritance

[object](#) ← InterpersonalRisksDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Communication

```
public int Communication { get; set; }
```

### Property Value

[int](#)

## Respect

```
public int Respect { get; set; }
```

### Property Value

[int](#)

## SharingSuccess

```
public int SharingSuccess { get; set; }
```

Property Value

[int ↗](#)

StakeholderID

```
public int StakeholderID { get; set; }
```

Property Value

[int ↗](#)

Support

```
public int Support { get; set; }
```

Property Value

[int ↗](#)

SupportiveManagement

```
public int SupportiveManagement { get; set; }
```

Property Value

[int ↗](#)

Trust

```
public int Trust { get; set; }
```

Property Value

[int ↗](#)

# Class PersonalRisks

Namespace: [T217 Capstone Project API.Models.Risks](#)

Assembly: T217 Capstone Project API.dll

```
public class PersonalRisks
```

## Inheritance

[object](#) ← PersonalRisks

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Age

```
public int Age { get; set; }
```

## Property Value

[int](#)

## EducationTraining

```
public int EducationTraining { get; set; }
```

## Property Value

[int](#)

## Experience

```
public int Experience { get; set; }
```

Property Value

[int ↗](#)

## History

```
public int History { get; set; }
```

Property Value

[int ↗](#)

## Impact

```
public int Impact { get; set; }
```

Property Value

[int ↗](#)

## Interest

```
public int Interest { get; set; }
```

Property Value

[int ↗](#)

## Involvement

```
public int Involvement { get; set; }
```

Property Value

[int ↗](#)

Kpi

```
public int Kpi { get; set; }
```

Property Value

[int ↗](#)

PersonalRiskID

```
[Key]  
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]  
[Required]  
public int PersonalRiskID { get; set; }
```

Property Value

[int ↗](#)

Personalities

```
public int Personalities { get; set; }
```

Property Value

[int ↗](#)

## PriorRole

```
public int PriorRole { get; set; }
```

Property Value

[int ↗](#)

## RoleType

```
public int RoleType { get; set; }
```

Property Value

[int ↗](#)

## ServiceLength

```
public int ServiceLength { get; set; }
```

Property Value

[int ↗](#)

## Stakeholder

```
[JsonIgnore]  
public Stakeholder? Stakeholder { get; set; }
```

Property Value

[Stakeholder](#)

## StakeholderID

```
[ForeignKey("StakeholderID")]
[Required]
public int StakeholderID { get; set; }
```

### Property Value

[int ↗](#)

## Status

```
public int Status { get; set; }
```

### Property Value

[int ↗](#)

## Workload

```
public int Workload { get; set; }
```

### Property Value

[int ↗](#)

# Class PersonalRisksDTO

Namespace: [T217 Capstone Project API.Models.Risks](#)

Assembly: T217 Capstone Project API.dll

```
public class PersonalRisksDTO
```

## Inheritance

[object](#) ← PersonalRisksDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Age

```
public int Age { get; set; }
```

## Property Value

[int](#)

## EducationTraining

```
public int EducationTraining { get; set; }
```

## Property Value

[int](#)

## Experience

```
public int Experience { get; set; }
```

Property Value

[int ↗](#)

## History

```
public int History { get; set; }
```

Property Value

[int ↗](#)

## Impact

```
public int Impact { get; set; }
```

Property Value

[int ↗](#)

## Interest

```
public int Interest { get; set; }
```

Property Value

[int ↗](#)

## Involvement

```
public int Involvement { get; set; }
```

Property Value

[int ↗](#)

Kpi

```
public int Kpi { get; set; }
```

Property Value

[int ↗](#)

Personalities

```
public int Personalities { get; set; }
```

Property Value

[int ↗](#)

PriorRole

```
public int PriorRole { get; set; }
```

Property Value

[int ↗](#)

RoleType

```
public int RoleType { get; set; }
```

Property Value

[int ↗](#)

## ServiceLength

```
public int ServiceLength { get; set; }
```

Property Value

[int ↗](#)

## StakeholderID

```
public int StakeholderID { get; set; }
```

Property Value

[int ↗](#)

## Status

```
public int Status { get; set; }
```

Property Value

[int ↗](#)

## Workload

```
public int Workload { get; set; }
```

Property Value

[int ↗](#)

# Class ProjectRisks

Namespace: [T217 Capstone Project API.Models.Risks](#)

Assembly: T217 Capstone Project API.dll

```
public class ProjectRisks
```

## Inheritance

[object](#) ← ProjectRisks

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## CulturalAlignment

```
public int CulturalAlignment { get; set; }
```

### Property Value

[int](#)

## Priority

```
public int Priority { get; set; }
```

### Property Value

[int](#)

## Project

```
[JsonIgnore]  
public Project? Project { get; set; }
```

Property Value

[Project](#)

## ProjectGoals

```
public int ProjectGoals { get; set; }
```

Property Value

[int](#)

## ProjectID

```
[ForeignKey("ProjectID")]  
[Required]  
public int ProjectID { get; set; }
```

Property Value

[int](#)

## ProjectLength

```
public int ProjectLength { get; set; }
```

Property Value

[int](#)

## ProjectRiskID

```
[Key]  
[DatabaseGenerated(DatabaseGeneratedOption.Identity)]  
[Required]  
public int ProjectRiskID { get; set; }
```

Property Value

[int ↗](#)

## Resourcing

```
public int Resourcing { get; set; }
```

Property Value

[int ↗](#)

## TypeOfChange

```
public int TypeOfChange { get; set; }
```

Property Value

[int ↗](#)

# Class ProjectRisksDTO

Namespace: [T217 Capstone Project API.Models.Risks](#)

Assembly: T217 Capstone Project API.dll

```
public class ProjectRisksDTO
```

## Inheritance

[object](#) ← ProjectRisksDTO

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## CulturalAlignment

```
public int CulturalAlignment { get; set; }
```

### Property Value

[int](#)

## Priority

```
public int Priority { get; set; }
```

### Property Value

[int](#)

## ProjectGoals

```
public int ProjectGoals { get; set; }
```

Property Value

[int ↗](#)

ProjectID

```
public int ProjectID { get; set; }
```

Property Value

[int ↗](#)

ProjectLength

```
public int ProjectLength { get; set; }
```

Property Value

[int ↗](#)

Resourcing

```
public int Resourcing { get; set; }
```

Property Value

[int ↗](#)

TypeOfChange

```
public int TypeOfChange { get; set; }
```

Property Value

[int ↗](#)

# Namespace T217\_Capstone\_Project\_API. Repositories

## Classes

### [ProjectRepository](#)

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

### [ProjectUserRepository](#)

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

### [RisksRepository](#)

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

### [StakeholderRepository](#)

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

### [UserRepository](#)

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

# Class ProjectRepository

Namespace: [T217 Capstone Project API.Repositories](#)

Assembly: T217 Capstone Project API.dll

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

```
public class ProjectRepository : IProjectRepository
```

Inheritance

[object](#) ← ProjectRepository

Implements

[IProjectRepository](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

ProjectRepository(StakeholderRisksContext)

```
public ProjectRepository(StakeholderRisksContext context)
```

Parameters

context [StakeholderRisksContext](#)

## Methods

CreateProjectAsync(ProjectDTO, string)

Creates a new Project and associated ProjectUser in the database.

```
public Task<Project> CreateProjectAsync(ProjectDTO project, string apiKey)
```

Parameters

project [ProjectDTO](#)

The ProjectDTO to be added.

apiKey [string](#)

Returns

[Task](#)<[Project](#)>

## DeleteProjectAsync(int, string)

Deletes a Project from the database.

```
public Task<int> DeleteProjectAsync(int id, string apiKey)
```

Parameters

id [int](#)

The ID of the Project to be deleted.

apiKey [string](#)

Returns

[Task](#)<[int](#)>

## GetProjectAsync(int, string)

Returns the Project from the database with the matching ID.

```
public Task<Project> GetProjectAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the desired Project.

**apiKey** [string](#)

## Returns

[Task](#) <[Project](#)>

## GetProjectListAsync(string)

Returns a list of all Projects from the database.

```
public Task<List<Project>> GetProjectListAsync(string apiKey)
```

## Parameters

**apiKey** [string](#)

## Returns

[Task](#) <[List](#) <[Project](#)>>

## UpdateProjectAsync(int, Project, string)

Updates the Project with the matching ID with new values.

```
public Task<int> UpdateProjectAsync(int id, Project project, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the project to be updated.

**project** [Project](#)

The replacement Project.

apiKey [string](#)

Returns

[Task](#) <[int](#)>

# Class ProjectUserRepository

Namespace: [T217 Capstone Project API.Repositories](#)

Assembly: T217 Capstone Project API.dll

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

```
public class ProjectUserRepository : IProjectUserRepository
```

Inheritance

[object](#) ← ProjectUserRepository

Implements

[IProjectUserRepository](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

ProjectUserRepository(StakeholderRisksContext)

```
public ProjectUserRepository(StakeholderRisksContext context)
```

Parameters

context [StakeholderRisksContext](#)

## Methods

AddNewProjectUserAsync(int, int, string,  
ProjectUserPermissionsDTO)

Creates a new ProjectUser for a User, associated with an existing Project.

```
public Task<ProjectUser> AddNewProjectUserAsync(int projectID, int newUserID, string apiKey, ProjectUserPermissionsDTO projectUserPermissions)
```

## Parameters

projectID [int](#)

The ID of the Project.

newUserID [int](#)

The ID of the User.

apiKey [string](#)

projectUserPermissions [ProjectUserPermissionsDTO](#)

The permissions that the new ProjectUser will have.

## Returns

[Task](#)<[ProjectUser](#)>

## CreateProjectUserAsync(ProjectUser)

Creates a new ProjectUser.

```
public Task<ProjectUser> CreateProjectUserAsync(ProjectUser projectUser)
```

## Parameters

projectUser [ProjectUser](#)

The ProjectUser to be created.

## Returns

[Task](#)<[ProjectUser](#)>

The created ProjectUser.

## DeleteProjectUserAsync(int, string)

Deletes the ProjectUser with the associated ID.

```
public Task<int> DeleteProjectUserAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the ProjectUser.

**apiKey** [string](#)

Returns

[Task](#)<[int](#)>

## GetProjectUserAsync(int)

Returns the ProjectUser from the database with the matching ID.

```
public Task<ProjectUser> GetProjectUserAsync(int id)
```

Parameters

**id** [int](#)

The ID of the ProjectUser

Returns

[Task](#)<[ProjectUser](#)>

The ProjectUser with the matching ID.

## GetProjectUserByUserAndProjectAsync(int, int)

Returns the ProjectUser associated with both the UserID and ProjectID.

```
public Task<ProjectUser> GetProjectUserByUserAndProjectAsync(int userId, int projectId)
```

## Parameters

`userId` [int](#)

The ID of the User.

`projectId` [int](#)

The ID of the Project.

## Returns

[Task](#) <[ProjectUser](#)>

The ProjectUser associated with both the UserID and ProjectID.

## GetProjectUserListAsync()

Returns a list of ProjectUsers.

```
public Task<List<ProjectUser>> GetProjectUserListAsync()
```

## Returns

[Task](#) <[List](#) <[ProjectUser](#)>>

A list of ProjectUsers.

## GetProjectUserListByProjectAsync(int, string)

Returns a list of ProjectUsers associated with the ProjectID.

```
public Task<List<ProjectUser>> GetProjectUserListByProjectAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the Project.

**apiKey** [string](#)

Returns

[Task](#) <[List](#) <[ProjectUser](#)>>

A list of ProjectUsers associated with the ProjectID..

## GetProjectUserListByUserAsync(int)

Returns a list of ProjectUsers associated with the UserID.

```
public Task<List<ProjectUser>> GetProjectUserListByUserAsync(int id)
```

Parameters

**id** [int](#)

The ID of the User.

Returns

[Task](#) <[List](#) <[ProjectUser](#)>>

A list of ProjectUsers associated with the UserID..

## UpdateProjectUserAsync(int, string, ProjectUserPermissionsDTO)

Updates the permissions of the ProjectUser with the associated ID.

```
public Task<int> UpdateProjectUserAsync(int id, string apiKey, ProjectUserPermissionsDTO projectUserPermissions)
```

Parameters

**id** [int](#)

The ID of the ProjectUser.

**apiKey** [string](#)

**projectUserPermissions** [ProjectUserPermissionsDTO](#)

The new permissions for the ProjectUser.

Returns

[Task](#) <[int](#)>

# Class RisksRepository

Namespace: [T217 Capstone Project API.Repositories](#)

Assembly: T217 Capstone Project API.dll

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

```
public class RisksRepository : IRisksRepository
```

Inheritance

[object](#) ← RisksRepository

Implements

[IRisksRepository](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### RisksRepository(StakeholderRisksContext)

```
public RisksRepository(StakeholderRisksContext context)
```

Parameters

context [StakeholderRisksContext](#)

## Methods

### CreateEnvironmentalRiskAsync(EnvironmentalRisksDTO, string)

Creates a new EnvironmentalRisks in the database.

```
public Task<EnvironmentalRisks> CreateEnvironmentalRiskAsync(EnvironmentalRisksDTO  
environmentalRisk, string apiKey)
```

## Parameters

**environmentalRisk** [EnvironmentalRisksDTO](#)

The EnvironmentalRisks to be added.

**apiKey** [string](#)

## Returns

[Task](#)<[EnvironmentalRisks](#)>

## CreateInterpersonalRiskAsync(InterpersonalRisksDTO, string)

Creates a new InterpersonalRisks in the database.

```
public Task<InterpersonalRisks> CreateInterpersonalRiskAsync(InterpersonalRisksDTO  
interpersonalRisk, string apiKey)
```

## Parameters

**interpersonalRisk** [InterpersonalRisksDTO](#)

The InterpersonalRisks to be added.

**apiKey** [string](#)

## Returns

[Task](#)<[InterpersonalRisks](#)>

## CreatePersonalRiskAsync(PersonalRisksDTO, string)

Creates a new PersonalRisks in the database.

```
public Task<PersonalRisks> CreatePersonalRiskAsync(PersonalRisksDTO personalRisk,  
string apiKey)
```

## Parameters

personalRisk [PersonalRisksDTO](#)

The PersonalRisks to be added.

apiKey [string](#)

## Returns

[Task](#)<[PersonalRisks](#)>

## CreateProjectRiskAsync(ProjectRisksDTO, string)

Creates a new ProjectRisks in the database.

```
public Task<ProjectRisks> CreateProjectRiskAsync(ProjectRisksDTO projectRisk, string apiKey)
```

## Parameters

projectRisk [ProjectRisksDTO](#)

The ProjectRisks to be added.

apiKey [string](#)

## Returns

[Task](#)<[ProjectRisks](#)>

## DeleteEnvironmentalRiskAsync(int, string)

Deletes a EnvironmentalRisks from the database.

```
public Task<int> DeleteEnvironmentalRiskAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the EnvironmentalRisks to be deleted.

**apiKey** [string](#)

## Returns

[Task](#) <[int](#)>

## DeleteInterpersonalRiskAsync(int, string)

Deletes a InterpersonalRisks from the database.

```
public Task<int> DeleteInterpersonalRiskAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the InterpersonalRisks to be deleted.

**apiKey** [string](#)

## Returns

[Task](#) <[int](#)>

## DeletePersonalRiskAsync(int, string)

Deletes a PersonalRisks from the database.

```
public Task<int> DeletePersonalRiskAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the PersonalRisks to be deleted.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## DeleteProjectRiskAsync(int, string)

Deletes a ProjectRisks from the database.

```
public Task<int> DeleteProjectRiskAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the ProjectRisks to be deleted.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## GetEnvironmentalRiskAsync(int, string)

Returns the EnvironmentalRisks from the database with the matching ID.

```
public Task<EnvironmentalRisks> GetEnvironmentalRiskAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the desired EnvironmentalRisks.

**apiKey** [string](#)

Returns

[Task](#) <[EnvironmentalRisks](#)>

## GetEnvironmentalRiskFromStakeholderAsync(int, string)

Returns the EnvironmentalRisks from the database with the matching StakeholderID.

```
public Task<EnvironmentalRisks> GetEnvironmentalRiskFromStakeholderAsync(int stakeholderId,  
string apiKey)
```

Parameters

**stakeholderId** [int](#)

**apiKey** [string](#)

Returns

[Task](#) <[EnvironmentalRisks](#)>

## GetInterpersonalRiskAsync(int, string)

Returns the InterpersonalRisks from the database with the matching ID.

```
public Task<InterpersonalRisks> GetInterpersonalRiskAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the desired InterpersonalRisks.

**apiKey** [string](#)

Returns

[Task](#) <[InterpersonalRisks](#)>

## GetInterpersonalRiskFromStakeholderAsync(int, string)

Returns the InterpersonalRisks from the database with the matching StakeholderID.

```
public Task<InterpersonalRisks> GetInterpersonalRiskFromStakeholderAsync(int stakeholderId,  
string apiKey)
```

Parameters

stakeholderId [int](#)

apiKey [string](#)

Returns

[Task](#) <[InterpersonalRisks](#)>

## GetPersonalRiskAsync(int, string)

Returns the PersonalRisks from the database with the matching ID.

```
public Task<PersonalRisks> GetPersonalRiskAsync(int id, string apiKey)
```

Parameters

id [int](#)

The ID of the desired PersonalRisks.

apiKey [string](#)

Returns

[Task](#) <[PersonalRisks](#)>

## GetPersonalRiskFromStakeholderAsync(int, string)

Returns the PersonalRisks from the database with the matching StakeholderID.

```
public Task<PersonalRisks> GetPersonalRiskFromStakeholderAsync(int stakeholderId,  
string apiKey)
```

Parameters

stakeholderId [int](#)

apiKey [string](#)

Returns

[Task](#) <[PersonalRisks](#)>

## GetProjectRiskAsync(int, string)

Returns the ProjectRisks from the database with the matching ID.

```
public Task<ProjectRisks> GetProjectRiskAsync(int id, string apiKey)
```

Parameters

id [int](#)

The ID of the desired ProjectRisks.

apiKey [string](#)

Returns

[Task](#) <[ProjectRisks](#)>

## GetProjectRiskFromProjectAsync(int, string)

Returns the ProjectRisks from the database with the matching ProjectID.

```
public Task<ProjectRisks> GetProjectRiskFromProjectAsync(int projectId, string apiKey)
```

Parameters

`projectId` [int](#)

`apiKey` [string](#)

Returns

[Task](#)<[ProjectRisks](#)>

## UpdateEnvironmentalRiskAsync(int, EnvironmentalRisks, string)

Updates the EnvironmentalRisks with the matching ID with new values.

```
public Task<int> UpdateEnvironmentalRiskAsync(int id, EnvironmentalRisks environmentalRisk,  
string apiKey)
```

Parameters

`id` [int](#)

The ID of the EnvironmentalRisks to be updated.

`environmentalRisk` [EnvironmentalRisks](#)

The replacement EnvironmentalRisks.

`apiKey` [string](#)

Returns

[Task](#)<[int](#)>

## UpdateInterpersonalRiskAsync(int, InterpersonalRisks, string)

Updates the InterpersonalRisks with the matching ID with new values.

```
public Task<int> UpdateInterpersonalRiskAsync(int id, InterpersonalRisks interpersonalRisk,  
string apiKey)
```

Parameters

**id** [int](#)

The ID of the InterpersonalRisks to be updated.

**interpersonalRisk** [InterpersonalRisks](#)

The replacement InterpersonalRisks.

**apiKey** [string](#)

Returns

[Task](#)<[int](#)>

## UpdatePersonalRiskAsync(int, PersonalRisks, string)

Updates the PersonalRisks with the matching ID with new values.

```
public Task<int> UpdatePersonalRiskAsync(int id, PersonalRisks personalRisk, string apiKey)
```

Parameters

**id** [int](#)

The ID of the PersonalRisks to be updated.

**personalRisk** [PersonalRisks](#)

The replacement PersonalRisks.

**apiKey** [string](#)

Returns

[Task](#)<[int](#)>

## UpdateProjectRiskAsync(int, ProjectRisks, string)

Updates the ProjectRisks with the matching ID with new values.

```
public Task<int> UpdateProjectRiskAsync(int id, ProjectRisks projectRisk, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the ProjectRisks to be updated.

**projectRisk** [ProjectRisks](#)

The replacement ProjectRisks.

**apiKey** [string](#)

## Returns

[Task](#) <[int](#)>

# Class StakeholderRepository

Namespace: [T217 Capstone Project API.Repositories](#)

Assembly: T217 Capstone Project API.dll

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

```
public class StakeholderRepository : IStakeholderRepository
```

Inheritance

[object](#) ← StakeholderRepository

Implements

[IStakeholderRepository](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

StakeholderRepository(StakeholderRisksContext)

```
public StakeholderRepository(StakeholderRisksContext context)
```

Parameters

context [StakeholderRisksContext](#)

## Methods

CreateStakeholderAsync(StakeholderDTO, string)

Creates a new Stakeholder in the database.

```
public Task<Stakeholder> CreateStakeholderAsync(StakeholderDTO stakeholderDTO,  
string apiKey)
```

## Parameters

**stakeholderDTO** [StakeholderDTO](#)

The StakeholderDTO to be added..

**apiKey** [string](#)

## Returns

[Task](#)<[Stakeholder](#)>

## DeleteStakeholderAsync(int, string)

Deletes a Stakeholder from the database.

```
public Task<int> DeleteStakeholderAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the Stakeholder to be deleted.

**apiKey** [string](#)

## Returns

[Task](#)<[int](#)>

## GetStakeholderAsync(int, string)

Returns the Stakeholder from the database with the matching ID.

```
public Task<Stakeholder> GetStakeholderAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the desired Stakeholder.

**apiKey** [string](#)

## Returns

[Task](#) <[Stakeholder](#)>

## GetStakeholderListAsync(string)

Returns a list of all Stakeholder from the database.

```
public Task<List<Stakeholder>> GetStakeholderListAsync(string apiKey)
```

## Parameters

**apiKey** [string](#)

## Returns

[Task](#) <[List](#) <[Stakeholder](#)>>

## GetStakeholderListByProjectAsync(int, string)

Returns a list of all Stakeholder that the User has access to.

```
public Task<List<Stakeholder>> GetStakeholderListByProjectAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the current Project.

**apiKey** [string](#)

Returns

[Task](#) <[List](#)<[Stakeholder](#)>>

## UpdateStakeholderAsync(int, Stakeholder, string)

Updates the Stakeholder with the matching ID with new values.

```
public Task<int> UpdateStakeholderAsync(int id, Stakeholder stakeholder, string apiKey)
```

Parameters

**id** [int](#)

The ID of the Stakeholder to be updated.

**stakeholder** [Stakeholder](#)

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

# Class UserRepository

Namespace: [T217 Capstone Project API.Repositories](#)

Assembly: T217 Capstone Project API.dll

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

```
public class UserRepository : IUserRepository
```

Inheritance

[object](#) ← UserRepository

Implements

[IUserRepository](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### UserRepository(StakeholderRisksContext)

```
public UserRepository(StakeholderRisksContext context)
```

Parameters

context [StakeholderRisksContext](#)

## Methods

### CreateUserAsync(CreateUserDTO)

Creates a new User in the database.

```
public Task<User> CreateUserAsync(CreateUserDTO user)
```

Parameters

user [CreateUserDTO](#)

The UserDTO to be added to the database.

Returns

[Task](#) <User>

## DeleteUserAsync(int)

Deletes the User from the database with the matching ID.

```
public Task<bool> DeleteUserAsync(int id)
```

Parameters

id [int](#)

The ID of the User to be deleted.

Returns

[Task](#) <bool>

## GetApiKeyAsync(string, string)

Returns the API key of the User from the database with the matching email and password.

```
public Task<string> GetApiKeyAsync(string email, string password)
```

Parameters

email [string](#)

The email of the desired User.

### **password** [string](#)

The password of the desired User.

Returns

### [Task](#) <[string](#)>

## GetUserAsync(int)

Returns the User from the database with the matching ID.

```
public Task<User> GetUserAsync(int id)
```

Parameters

### **id** [int](#)

The ID of the desired User.

Returns

### [Task](#) <[User](#)>

## GetUserByApiKeyAsync(string)

Returns the User from the database with the matching API key.

```
public User GetUserByApiKeyAsync(string apiKey)
```

Parameters

### **apiKey** [string](#)

The API key of the desired User.

Returns

## GetUserByEmailAsync(string)

Returns the User from the database with the matching email.

```
public Task<User> GetUserByEmailAsync(string email)
```

Parameters

`email` [string](#)

The email of the desired User.

Returns

[Task](#) <[User](#)>

## GetUserListAsync()

Returns a list of all Users from the database.

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

Returns

[Task](#) <[List](#) <[User](#)>>

## UpdateUserAsync(int, User)

Updates the User on the database with the specified ID with new values.

```
public Task<int> UpdateUserAsync(int id, User user)
```

Parameters

`id` [int](#)

The ID of the User to be updated.

**user** [User](#)

The replacement User.

Returns

[Task](#) <[int](#)>

# Namespace T217\_Capstone\_Project\_API.

## Repositories.Interfaces

### Interfaces

#### [IProjectRepository](#)

Repository used to connect the application to the Projects table in the Database.

#### [IProjectUserRepository](#)

Repository used to connect the application to the ProjectUsers table in the Database.

#### [IRisksRepository](#)

Repository used to connect the application to the Risks tables in the Database.

#### [IStrakeholderRepository](#)

Repository used to connect the application to the Stakeholders table in the Database.

#### [IUserRepository](#)

Repository used to connect the application to the Users table in the Database.

# Interface IProjectRepository

Namespace: [T217 Capstone Project API.Repositories.Interfaces](#)

Assembly: T217 Capstone Project API.dll

Repository used to connect the application to the Projects table in the Database.

```
public interface IProjectRepository
```

## Methods

### CreateProjectAsync(ProjectDTO, string)

Creates a new Project and associated ProjectUser in the database.

```
Task<Project> CreateProjectAsync(ProjectDTO project, string apiKey)
```

Parameters

**project** [ProjectDTO](#)

The ProjectDTO to be added.

**apiKey** [string](#)

Returns

[Task](#)<[Project](#)>

### DeleteProjectAsync(int, string)

Deletes a Project from the database.

```
Task<int> DeleteProjectAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the Project to be deleted.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## GetProjectAsync(int, string)

Returns the Project from the database with the matching ID.

[Task](#)<Project> **GetProjectAsync**([int](#) id, [string](#) apiKey)

Parameters

**id** [int](#)

The ID of the desired Project.

**apiKey** [string](#)

Returns

[Task](#) <Project>

## GetProjectListAsync(string)

Returns a list of all Projects from the database.

[Task](#)<List<Project>> **GetProjectListAsync**([string](#) apiKey)

Parameters

**apiKey** [string](#)

Returns

## UpdateProjectAsync(int, Project, string)

Updates the Project with the matching ID with new values.

```
Task<int> UpdateProjectAsync(int id, Project project, string apiKey)
```

### Parameters

**id** [int](#)

The ID of the project to be updated.

**project** [Project](#)

The replacement Project.

**apiKey** [string](#)

### Returns

[Task](#)<[int](#)>

# Interface IProjectUserRepository

Namespace: [T217 Capstone Project API.Repositories.Interfaces](#)

Assembly: T217 Capstone Project API.dll

Repository used to connect the application to the ProjectUsers table in the Database.

```
public interface IProjectUserRepository
```

## Methods

AddNewProjectUserAsync(int, int, string, ProjectUserPermissionsDTO)

Creates a new ProjectUser for a User, associated with an existing Project.

```
Task<ProjectUser> AddNewProjectUserAsync(int projectID, int newUserID, string apiKey, ProjectUserPermissionsDTO projectUserPermissions)
```

Parameters

**projectID** [int](#)

The ID of the Project.

**newUserID** [int](#)

The ID of the User.

**apiKey** [string](#)

**projectUserPermissions** [ProjectUserPermissionsDTO](#)

The permissions that the new ProjectUser will have.

Returns

[Task](#) <[ProjectUser](#)>

## CreateProjectUserAsync(ProjectUser)

Creates a new ProjectUser.

```
Task<ProjectUser> CreateProjectUserAsync(ProjectUser projectUser)
```

Parameters

**projectUser** [ProjectUser](#)

The ProjectUser to be created.

Returns

[Task](#) <[ProjectUser](#)>

The created ProjectUser.

## DeleteProjectUserAsync(int, string)

Deletes the ProjectUser with the associated ID.

```
Task<int> DeleteProjectUserAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the ProjectUser.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## GetProjectUserAsync(int)

Returns the ProjectUser from the database with the matching ID.

```
Task<ProjectUser> GetProjectUserAsync(int id)
```

Parameters

**id** [int](#)

The ID of the ProjectUser

Returns

[Task](#) <ProjectUser>

The ProjectUser with the matching ID.

## GetProjectUserByUserAndProjectAsync(int, int)

Returns the ProjectUser associated with both the UserID and ProjectID.

```
Task<ProjectUser> GetProjectUserByUserAndProjectAsync(int userId, int projectId)
```

Parameters

**userId** [int](#)

The ID of the User.

**projectId** [int](#)

The ID of the Project.

Returns

[Task](#) <ProjectUser>

The ProjectUser assocaited with both the UserID and ProjectID.

## GetProjectUserListAsync()

Returns a list of ProjectUsers.

```
Task<List<ProjectUser>> GetProjectUserListAsync()
```

Returns

[Task](#) <[List](#) <[ProjectUser](#)>>

A list of ProjectUsers.

## GetProjectUserListByProjectAsync(int, string)

Returns a list of ProjectUsers associated with teh ProjectID.

```
Task<List<ProjectUser>> GetProjectUserListByProjectAsync(int id, string apiKey)
```

Parameters

[id](#) [int](#)

The ID of the Project.

[apiKey](#) [string](#)

Returns

[Task](#) <[List](#) <[ProjectUser](#)>>

A list of ProjectUsers assocoated with the ProjectID..

## GetProjectUserListByUserAsync(int)

Returns a list of ProjectUsers associated with the UserID.

```
Task<List<ProjectUser>> GetProjectUserListByUserAsync(int id)
```

Parameters

[id](#) [int](#)

The ID of the User.

Returns

[Task](#) <[List](#)<[ProjectUser](#)>>

A list of ProjectUsers associated with the UserID..

## UpdateProjectUserAsync(int, string, ProjectUserPermissionsDTO)

Updates the permissions of the ProjectUser with the associated ID.

```
Task<int> UpdateProjectUserAsync(int id, string apiKey, ProjectUserPermissionsDTO  
projectUserPermissions)
```

Parameters

**id** [int](#)

The ID of the ProjectUser.

**apiKey** [string](#)

**projectUserPermissions** [ProjectUserPermissionsDTO](#)

The new permissions for the ProjectUser.

Returns

[Task](#) <[int](#)>

# Interface IRisksRepository

Namespace: [T217 Capstone Project API.Repositories.Interfaces](#)

Assembly: T217 Capstone Project API.dll

Repository used to connect the application to the Risks tables in the Database.

```
public interface IRisksRepository
```

## Methods

### CreateEnvironmentalRiskAsync(EnvironmentalRisksDTO, string)

Creates a new EnvironmentalRisks in the database.

```
Task<EnvironmentalRisks> CreateEnvironmentalRiskAsync(EnvironmentalRisksDTO  
environmentalRisk, string apiKey)
```

Parameters

**environmentalRisk** [EnvironmentalRisksDTO](#)

The EnvironmentalRisks to be added.

**apiKey** [string](#)

Returns

[Task](#)<[EnvironmentalRisks](#)>

### CreateInterpersonalRiskAsync(InterpersonalRisksDTO, string)

Creates a new InterpersonalRisks in the database.

```
Task<InterpersonalRisks> CreateInterpersonalRiskAsync(InterpersonalRisksDTO  
interpersonalRisk, string apiKey)
```

## Parameters

**interpersonalRisk** [InterpersonalRisksDTO](#)

The InterpersonalRisks to be added.

**apiKey** [string](#)

## Returns

[Task](#) <[InterpersonalRisks](#)>

## CreatePersonalRiskAsync(PersonalRisksDTO, string)

Creates a new PersonalRisks in the database.

`Task<PersonalRisks> CreatePersonalRiskAsync(PersonalRisksDTO personalRisk, string apiKey)`

## Parameters

**personalRisk** [PersonalRisksDTO](#)

The PersonalRisks to be added.

**apiKey** [string](#)

## Returns

[Task](#) <[PersonalRisks](#)>

## CreateProjectRiskAsync(ProjectRisksDTO, string)

Creates a new ProjectRisks in the database.

`Task<ProjectRisks> CreateProjectRiskAsync(ProjectRisksDTO projectRisk, string apiKey)`

## Parameters

**projectRisk** [ProjectRisksDTO](#)

The ProjectRisks to be added.

apiKey [string](#)

Returns

[Task](#) <[ProjectRisks](#)>

## DeleteEnvironmentalRiskAsync(int, string)

Deletes a EnvironmentalRisks from the database.

```
Task<int> DeleteEnvironmentalRiskAsync(int id, string apiKey)
```

Parameters

id [int](#)

The ID of the EnvironmentalRisks to be deleted.

apiKey [string](#)

Returns

[Task](#) <[int](#)>

## DeleteInterpersonalRiskAsync(int, string)

Deletes a InterpersonalRisks from the database.

```
Task<int> DeleteInterpersonalRiskAsync(int id, string apiKey)
```

Parameters

id [int](#)

The ID of the InterpersonalRisks to be deleted.

apiKey [string](#)

Returns

[Task](#) <[int](#)>

## DeletePersonalRiskAsync(int, string)

Deletes a PersonalRisks from the database.

```
Task<int> DeletePersonalRiskAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the PersonalRisks to be deleted.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## DeleteProjectRiskAsync(int, string)

Deletes a ProjectRisks from the database.

```
Task<int> DeleteProjectRiskAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the ProjectRisks to be deleted.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## GetEnvironmentalRiskAsync(int, string)

Returns the EnvironmentalRisks from the database with the matching ID.

```
Task<EnvironmentalRisks> GetEnvironmentalRiskAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the desired EnvironmentalRisks.

**apiKey** [string](#)

Returns

[Task](#) <EnvironmentalRisks>

## GetEnvironmentalRiskFromStakeholderAsync(int, string)

Returns the EnvironmentalRisks from the database with the matching StakeholderID.

```
Task<EnvironmentalRisks> GetEnvironmentalRiskFromStakeholderAsync(int stakeholderId, string apiKey)
```

Parameters

**stakeholderId** [int](#)

**apiKey** [string](#)

Returns

[Task](#) <EnvironmentalRisks>

## GetInterpersonalRiskAsync(int, string)

Returns the InterpersonalRisks from the database with the matching ID.

```
Task<InterpersonalRisks> GetInterpersonalRiskAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the desired InterpersonalRisks.

**apiKey** [string](#)

## Returns

[Task](#) <[InterpersonalRisks](#)>

## GetInterpersonalRiskFromStakeholderAsync(int, string)

Returns the InterpersonalRisks from the database with the matching StakeholderID.

```
Task<InterpersonalRisks> GetInterpersonalRiskFromStakeholderAsync(int stakeholderId, string apiKey)
```

## Parameters

**stakeholderId** [int](#)

**apiKey** [string](#)

## Returns

[Task](#) <[InterpersonalRisks](#)>

## GetPersonalRiskAsync(int, string)

Returns the PersonalRisks from the database with the matching ID.

```
Task<PersonalRisks> GetPersonalRiskAsync(int id, string apiKey)
```

## Parameters

**id** [int](#)

The ID of the desired PersonalRisks.

**apiKey** [string](#)

Returns

[Task](#) <[PersonalRisks](#)>

## GetPersonalRiskFromStakeholderAsync(int, string)

Returns the PersonalRisks from the database with the matching StakeholderID.

```
Task<PersonalRisks> GetPersonalRiskFromStakeholderAsync(int stakeholderId, string apiKey)
```

Parameters

**stakeholderId** [int](#)

**apiKey** [string](#)

Returns

[Task](#) <[PersonalRisks](#)>

## GetProjectRiskAsync(int, string)

Returns the ProjectRisks from the database with the matching ID.

```
Task<ProjectRisks> GetProjectRiskAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the desired ProjectRisks.

**apiKey** [string](#)

Returns

[Task](#) <ProjectRisks>

## GetProjectRiskFromProjectAsync(int, string)

Returns the ProjectRisks from the database with the matching ProjectID.

```
Task<ProjectRisks> GetProjectRiskFromProjectAsync(int projectId, string apiKey)
```

Parameters

projectId [int](#)

apiKey [string](#)

Returns

[Task](#) <ProjectRisks>

## UpdateEnvironmentalRiskAsync(int, EnvironmentalRisks, string)

Updates the EnvironmentalRisks with the matching ID with new values.

```
Task<int> UpdateEnvironmentalRiskAsync(int id, EnvironmentalRisks environmentalRisk, string apiKey)
```

Parameters

id [int](#)

The ID of the EnvironmentalRisks to be updated.

environmentalRisk [EnvironmentalRisks](#)

The replacement EnvironmentalRisks.

apiKey [string](#)

Returns

[Task](#) <[int](#)>

## UpdateInterpersonalRiskAsync(int, InterpersonalRisks, string)

Updates the InterpersonalRisks with the matching ID with new values.

```
Task<int> UpdateInterpersonalRiskAsync(int id, InterpersonalRisks interpersonalRisk,  
string apiKey)
```

Parameters

**id** [int](#)

The ID of the InterpersonalRisks to be updated.

**interpersonalRisk** [InterpersonalRisks](#)

The replacement InterpersonalRisks.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## UpdatePersonalRiskAsync(int, PersonalRisks, string)

Updates the PersonalRisks with the matching ID with new values.

```
Task<int> UpdatePersonalRiskAsync(int id, PersonalRisks personalRisk, string apiKey)
```

Parameters

**id** [int](#)

The ID of the PersonalRisks to be updated.

**personalRisk** [PersonalRisks](#)

The replacement PersonalRisks.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## UpdateProjectRiskAsync(int, ProjectRisks, string)

Updates the ProjectRisks with the matching ID with new values.

```
Task<int> UpdateProjectRiskAsync(int id, ProjectRisks projectRisk, string apiKey)
```

Parameters

**id** [int](#)

The ID of the ProjectRisks to be updated.

**projectRisk** [ProjectRisks](#)

The replacement ProjectRisks.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

# Interface IStakeholderRepository

Namespace: [T217 Capstone Project API.Repositories.Interfaces](#)

Assembly: T217 Capstone Project API.dll

Repository used to connect the application to the Stakeholders table in the Database.

```
public interface IStakeholderRepository
```

## Methods

### CreateStakeholderAsync(StakeholderDTO, string)

Creates a new Stakeholder in the database.

```
Task<Stakeholder> CreateStakeholderAsync(StakeholderDTO stakeholderDTO, string apiKey)
```

Parameters

**stakeholderDTO** [StakeholderDTO](#)

The StakeholderDTO to be added..

**apiKey** [string](#)

Returns

[Task](#) <[Stakeholder](#)>

### DeleteStakeholderAsync(int, string)

Deletes a Stakeholder from the database.

```
Task<int> DeleteStakeholderAsync(int id, string apiKey)
```

Parameters

**id** [int](#)

The ID of the Stakeholder to be deleted.

**apiKey** [string](#)

Returns

[Task](#) <[int](#)>

## GetStakeholderAsync(int, string)

Returns the Stakeholder from the database with the matching ID.

`Task<Stakeholder> GetStakeholderAsync(int id, string apiKey)`

Parameters

**id** [int](#)

The ID of the desired Stakeholder.

**apiKey** [string](#)

Returns

[Task](#) <[Stakeholder](#)>

## GetStakeholderListAsync(string)

Returns a list of all Stakeholder from the database.

`Task<List<Stakeholder>> GetStakeholderListAsync(string apiKey)`

Parameters

**apiKey** [string](#)

Returns

[Task](#) <[List](#)<[Stakeholder](#)>>

## GetStakeholderListByProjectAsync(int, string)

Returns a list of all Stakeholder that the User has access to.

```
Task<List<Stakeholder>> GetStakeholderListByProjectAsync(int id, string apiKey)
```

### Parameters

[id](#) [int](#)

The ID of the current Project.

[apiKey](#) [string](#)

### Returns

[Task](#) <[List](#)<[Stakeholder](#)>>

## UpdateStakeholderAsync(int, Stakeholder, string)

Updates the Stakeholder with the matching ID with new values.

```
Task<int> UpdateStakeholderAsync(int id, Stakeholder stakeholder, string apiKey)
```

### Parameters

[id](#) [int](#)

The ID of the Stakeholder to be updated.

[stakeholder](#) [Stakeholder](#)

[apiKey](#) [string](#)

### Returns

[Task](#) <[int](#)>



# Interface IUserRepository

Namespace: [T217 Capstone Project API.Repositories.Interfaces](#)

Assembly: T217 Capstone Project API.dll

Repository used to connect the application to the Users table in the Database.

```
public interface IUserRepository
```

## Methods

### CreateUserAsync(CreateUserDTO)

Creates a new User in the database.

```
Task<User> CreateUserAsync(CreateUserDTO user)
```

Parameters

**user** [CreateUserDTO](#)

The UserDTO to be added to the database.

Returns

[Task](#) <User>

### DeleteUserAsync(int)

Deletes the User from the database with the matching ID.

```
Task<bool> DeleteUserAsync(int id)
```

Parameters

**id** [int](#)

The ID of the User to be deleted.

Returns

[Task](#) <[bool](#)>

## GetApiKeyAsync(string, string)

Returns the API key of the User from the database with the matching email and password.

`Task<string> GetApiKeyAsync(string email, string password)`

Parameters

`email` [string](#)

The email of the desired User.

`password` [string](#)

The password of the desired User.

Returns

[Task](#) <[string](#)>

## GetUserAsync(int)

Returns the User from the database with the matching ID.

`Task<User> GetUserAsync(int id)`

Parameters

`id` [int](#)

The ID of the desired User.

Returns

[Task](#) <User>

## GetUserByApiKeyAsync(string)

Returns the User from the database with the matching API key.

User  `GetUserByApiKeyAsync(string apiKey)`

Parameters

`apiKey` [string](#)

The API key of the desired User.

Returns

[User](#)

## GetUserByEmailAsync(string)

Returns the User from the database with the matching email.

`Task<User> GetUserByEmailAsync(string email)`

Parameters

`email` [string](#)

The email of the desired User.

Returns

[Task](#) <User>

## GetUserListAsync()

Returns a list of all Users from the database.

```
Task<List<User>> GetUserListAsync()
```

Returns

[Task](#) <[List](#) <[User](#)>>

## UpdateUserAsync(int, User)

Updates the User on the database with the specified ID with new values.

```
Task<int> UpdateUserAsync(int id, User user)
```

Parameters

**id** [int](#)

The ID of the User to be updated.

**user** [User](#)

The replacement User.

Returns

[Task](#) <[int](#)>