**Backend Teams App Specifications**

1. Requirements

**Technologies to use:**

* .net 5 (core)
* C#
* Visual Studio
* Windows 10

Required Accounts:

* **GitHub Account with a public repository where you publish your code and send it to us.**
* **Developer Account for MS <https://developer.microsoft.com/de-de/microsoft-365/dev-program>**

**Possible Libraries / API’s to use:**

* Entity Framework
* MS Graph API
* Graph Tutorial: <https://docs.microsoft.com/de-de/graph/tutorials/dotnet-core?tutorial-step=1>

**This test project is 80% decisive for the job application! Please make sure you match the test cases given.**

1. Project

Create a new Project “Web Application with MVC” in Visual Studio.

The site should **authenticate** the application with the MS Graph of a the tenant of the authenticated user (in this case your developer tenant).

The site should display the following things:

* Information of the current logged in user (Display Name, Department, Company, E-Mail)
* Show a page where you list and display all Teams with all the members & owners.

If the user is logged in it should create a database entry. The entry should not be duplicated if the user is logged in a second time.

Additionally create a test project where there are the following test Cases implmeneted:

* Check if User has a valid displayname and e-mail
* Check if there are any teams

1. Test Cases for success

The following Test Cases should be met:

1. A valid Azure Active Directory User should be able to login
2. The displayname, department, company, E-mail should be displayed
3. All teams with respective members / owners should be listed. (only the teams visible to the user)
4. The test project should run successfully with the test cases
5. There should be a valid database with 1 user after successfully testing the app