



HACKATHON 2022

19.3.2022 – 20.3.2022



<Front/Ed>



1.1. BEFORE YOU START CODING...

Starting checklist:

1. Check your equipment and working place (electricity, table, chair etc.)
2. Check Internet connectivity and Wi-Fi access:

SSID	Password
Bonsai	Bons41N3t!

3. Check your access to the Azure DevOps and code repo (see chapter 1.4. for details):
<https://dev.azure.com/fronted2022/>
4. Check your access to the Azure Cloud infrastructure (see chapter 1.5. for details):
<https://portal.azure.com/>

Good, you've completed all tasks from the starting checklist. 🙌

Now, please read the task carefully and start coding. Good luck!

1.2. TASK DEFINITION

Your task is to create a **Floor Plan** application. If you've never seen a floor plan yet, don't worry, it's not rocket science and is actually pretty self-explanatory – a floor plan is a fancy name for an interactive seating chart for your company, organization or school. It helps its users find people, rooms, and utilities around the building.

HOME PAGE/DASHBOARD

On the home page of the application, a building is shown. There is an option to choose a particular floor of the building, which takes the user to the floor view. The floor view shows the user a ground view of a particular floor. The floor is divided into rooms.

ROOMS

Floor plan supports two types of rooms:

- available for reservation and
- rooms assigned to someone.

Assigned rooms

Application administrator can assign the room either to a person (e.g., the CEO's office) or a team. If a room is assigned to anyone, there is an option to 'enter' the room and see its details (e.g. room administrator name and position in the organization or workstations with assigned team members).

A room administrator is the person assigned to the room, or a team member in the case of the room being assigned to a team. The team administrator can assign any team member to a workstation.

Rooms available for reservations

This type of room can be reserved for a limited time period (max 1 day) on workdays by any user. By clicking on the reservation button, the user is shown a calendar containing information about the availability of the room.

WORKSTATIONS

The rooms assigned to a team consist of one or more workstations – a table with its IT equipment, which can be assigned to a person. By clicking on a particular workstation, the user can view its details, such as whether it's currently assigned to someone (and information about that person) and what IT equipment is included in that workstation (monitors, chair, mouse, keyboard, docking station, headset etc.). The room administrator can assign workstations to team members and remove them.

1.3. IMPLEMENTATION TECHNOLOGY

Task definition **does not define the technology**, so feel free to use any technology you're best familiar with.

1.4. EVALUATION CRITERIA

During the evaluation, the following criteria will be considered:

Criteria	Explanation	Score (%)
Technical implementation	<i>How effective is the technical approach and implementation of the product or solution on the software?</i>	20
Functionality	<i>How well does the product or solution work in terms of its claimed functionality?</i>	20
UI/UX – user interface and user experience	<i>What is the overall user experience using the product or solution in terms of enjoyment or ease of use?</i>	20
Alignment with Challenge(s)	<i>How well does the product or solution line up with the Hackathon challenges (extra scenarios = extra points)?</i>	20
Deployment	<i>Is the solution deployed to the Azure Cloud and accessible via public Internet?</i>	10
Pitch – presentation of implemented solution	<i>Was the presentation organized and engaging? Did the presenters properly and clearly articulate the way their product or solution addresses the problem? Do the presenters provide a convincing argument for their solution?</i>	10

1.5. SOLUTION DELIVERY & DEPLOYMENT

IMPORTANT! If you get prompted to set up multi-factor authentication when you are logging in to Azure DevOps or Azure Portal, please select **Skip for now**.

1.5.1. CODE REPOSITORY

When you start coding you will need a team collaboration tool with the support for the shared code repository (Git), CI/CD pipelines, work items etc.

We've created Azure DevOps organization for your team. Inside the organization every team has the same project **Hackathon2022** with an initialized git repository.

Please use the following credentials to login to the Azure DevOps portal and access your project:

URL	Username	Password
https://dev.azure.com/fronted-team3	team3.admin@fronted2022.onmicrosoft.com	_USNqeK?j%4f7-4j

If you are lazy or you just don't want to access Azure DevOps, you can access and clone your Git repository by using this direct URL:

https://fronted-team1@dev.azure.com/fronted-team1/Hackathon2022/_git/Hackathon2022

If you are using **Azure DevOps** for the first time, please visit the following URL for short introduction:

<https://docs.microsoft.com/en-us/azure/devops/user-guide/what-is-azure-devops?view=azure-devops>

If this is not enough, you can visit the following URL for more information:

<https://docs.microsoft.com/en-us/azure/devops/get-started/?view=azure-devops>

1.5.2. CLOUD INFRASTRUCTURE

When you finish with the implementation of the task from Chapter 1.2, you will need to deploy your solution to the Azure Cloud.

You will have **\$150** at your disposal for the creation of resources and deployment of your solution and to the Cloud infrastructure.

Please use the following credentials to connect to the Azure portal:

URL	Username	Password
https://portal.azure.com/	team3.admin@fronted2022.onmicrosoft.com	_USNqeK?j%4f7-4j

If you are using **Azure portal** for the first time, please visit the following URL for more information:

<https://docs.microsoft.com/en-us/azure/azure-portal/azure-portal-overview>