

Meeting Zone

Team

- Mustafa Tayyip BAYRAM - 170706007
- Furkan ÖCALAN - 170706003
- Damlanur TOPCU - 170706012
- Ecem YENİTÜRK - 170706024
- Kutay TORLAK - 180706026
- Mert YILMAZ - 180706006

Week 01: Review

- Determine the roles of each group member
- Research Open-Source projects and determine whether to use an open-source project or create a project from scratch.
- Select an open-source scrum tool.
- Test selected open-source project and conclude.
- Create a GitHub repository for the project
- Listing the useful-handly resources
- Consider risks:
  - Project Size
  - Implementation Risks
  - Operational Impacts

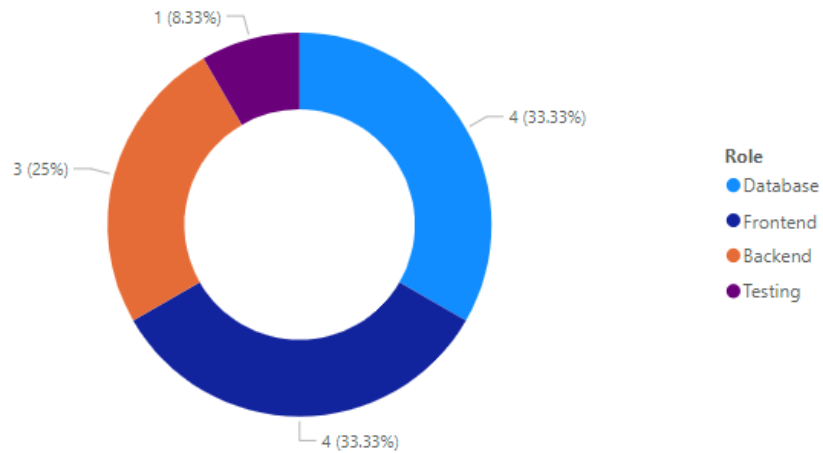
Week 01 Tasks

Team Member	Mustafa	Furkan	Damla	Ecem	Kutay	Mert
Tasks	Creation of GitHub repository ,selecting an open-source Scrum tool	Research for open-source projects and Scrum tool	Testing selected open-source project.	Research and list suitable guides and resources	Indicate the risks	Create charts for report

Role Distribution

Team Member	Mustafa	Furkan	Damla	Ecem	Kutay	Mert
Role	Backend - Testing	Backend - Database	Frontend - Backend	Frontend - Database	Frontend - Database	Frontend - Database

Distribution by Role



## Next Week Tasks

Team Member	Mustafa	Furkan	Damla	Ecem	Kutay	Mert
Tasks	Project Estimation - Scheduling	Risk Plan	Determine the needs of the Stakeholders	Statement of Work	Vision Statement	Scope of phased release

## Open-Source Projects

Project	Advantages	Disadvantages
<a href="#">MeetingPoint</a>	<ul style="list-style-type: none"> <li>Does not have many dependencies to install</li> <li>Easy to use</li> </ul>	<ul style="list-style-type: none"> <li>Host of the meeting cannot restrict members</li> <li>Custom accounts cannot be created.</li> </ul>
<a href="#">Jitsi-Meet</a>	<ul style="list-style-type: none"> <li>It nearly has all the features of Zoom</li> <li>Android/IOS compatible</li> <li>Build on top of WebRTC</li> </ul>	<ul style="list-style-type: none"> <li>Hard to install</li> <li>This project is too complex for developing and moving forward.</li> </ul>
<a href="#">BigBlueButton</a>	<ul style="list-style-type: none"> <li>Doesn't need special clients to install. It runs inside the web browser</li> </ul>	<ul style="list-style-type: none"> <li>Too complex like Jitsi-Meet</li> <li>Has many dependencies</li> </ul>

<a href="#">OpenVidu</a>	<ul style="list-style-type: none"> <li>• Build on top of WebRTC</li> <li>• Has most of the features of Zoom</li> </ul>	<ul style="list-style-type: none"> <li>• Hard to Install</li> <li>• Too Complex</li> </ul>
<a href="#">Video-Meeting-App</a> (We choose this)	<ul style="list-style-type: none"> <li>• Easy to install</li> </ul>	<ul style="list-style-type: none"> <li>• Has minor bugs</li> </ul>

## Open-Source Scrum Tools

Tool	Advantages	Disadvantages
<a href="#">YouTrack</a>	<ul style="list-style-type: none"> <li>• Enables connection with related IDE.</li> <li>• Free for teams of up to 10</li> </ul>	<ul style="list-style-type: none"> <li>• Too complex for starting.</li> </ul>
<a href="#">JIRA</a>	<ul style="list-style-type: none"> <li>• Love how versatile it is, being able to make plan. have tasks depend on each other, assign tickets/tasks, have mini-goals/mini-projects(epics)</li> </ul>	<ul style="list-style-type: none"> <li>• Might be too powerful - it can become extremely complex, complicated, and difficult to understand</li> <li>• Not free</li> </ul>
<a href="#">Agilefant</a>	<ul style="list-style-type: none"> <li>• Powerful</li> <li>• Free</li> </ul>	<ul style="list-style-type: none"> <li>• Old and outdated user interface for easy to use</li> </ul>
<a href="#">Trello</a> (We choose this)	<ul style="list-style-type: none"> <li>• Free</li> <li>• Hosted in the cloud, not standalone</li> <li>• Easy to use</li> </ul>	<ul style="list-style-type: none"> <li>• Storage limit</li> <li>• Problem with commenting</li> </ul>

## Listing the useful-handly resources

Eligible programming languages for this project have been listed into the table.

Programming Languages – Frameworks
HTML, CSS, Bootstrap
JavaScript – NodeJS – ReactJS - EJS
SQL

The group gathered information after looking at such websites. The group explored various ideas that could serve as a guide.

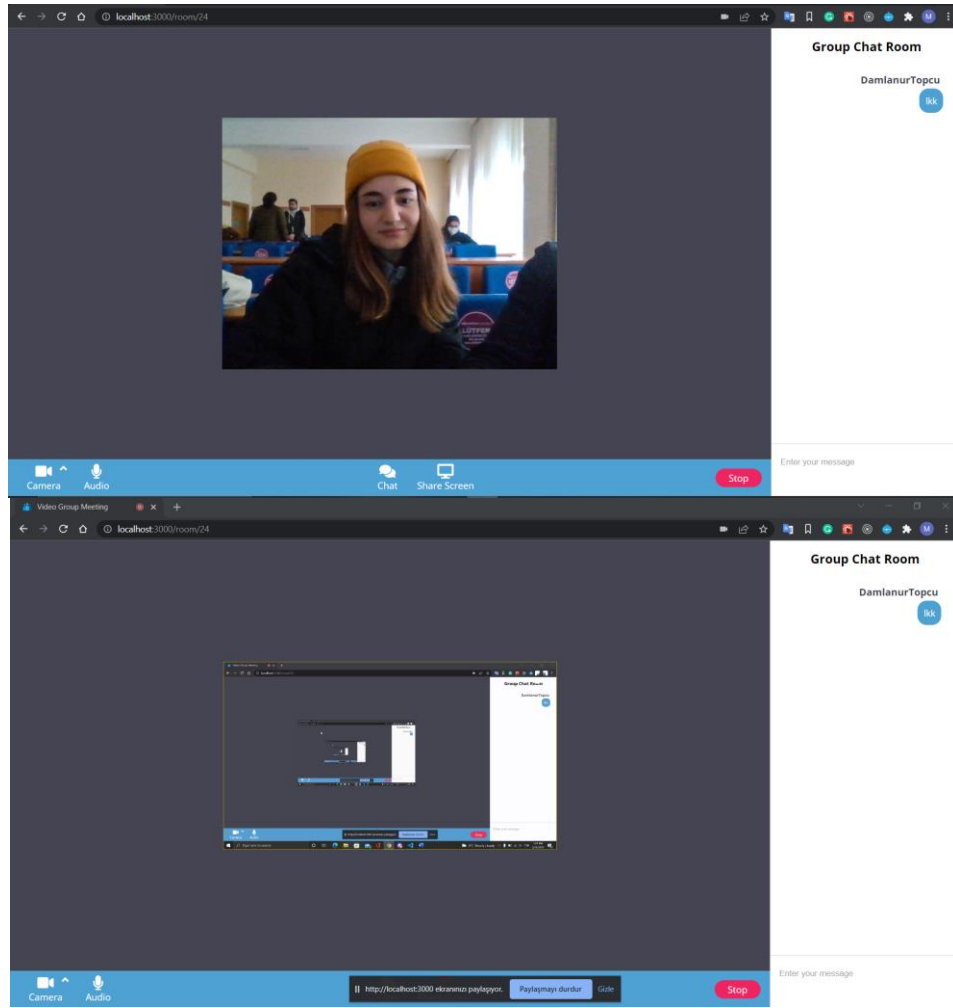
- <https://webrtc.ventures/2018/02/learn-how-to-build-a-video-conference-app-and-not-die-trying/>
- <https://web-and-mobile-development.medium.com/how-to-develop-a-video-conferencing-app-like-zoom-d6ed35dc37e7>
- <https://www.matellio.com/blog/how-to-build-a-video-chat-app-like-zoom/>
- <https://codeit.us/blog/how-to-make-a-video-calling-app>
- <https://www.cleveroad.com/blog/how-to-make-a-video-chat-app>

The team then decided which sites were more suitable for the project or more effective for deployment.

## Testing of the Open-Source Project

Tested Project	Installation Process?	Eligible for our project?	Conclusion
<a href="#">Video-Meeting-App</a>	It was easy to install did not have many dependencies to run	This project seems reasonable to use as a backbone for our project because it has the main features which we need, and it is open to develop further.	As a conclusion, this open-source project meets the requirements to become the backbone for our project.

This week we found some open-source projects from GitHub but only chose one of them which is called: Video Group Meeting. It is written in JavaScript language. For installation, we downloaded Node.js. Then, inside of it there are 2 files. One of them is client and other one is server. I installed npm in each of them and started it. It worked fine and these are the screenshots from the web app:



## GitHub Repository

As open source has many benefits, it still depends on which perspective it's looked. In our project, we concluded it to be an open-source project.

- Open-source software's provide an extra security layer because the project can be contributed by people who use it.
- Code can be customized according to users needing's.
- It is more interoperable than the closed source which means it's more compatible with users.

Project codes will be available to public in the following repository: <https://github.com/mutabay/Meeting-Zone>

# Software Development Risks

## Bad Timing

- Wrong time estimation,
- Not properly reviewing the resources,
- Unexpected project scope extensions,
- The project manager does not properly track employees, skills, task status.

## Incorrect Budget Estimation

- The budget was initially calculated incorrectly.
- No funds have been reserved.
- Unplanned project expansion.

## Poor Code Quality and Technical Risks

- Lack of knowledge of team members.
- Changes in software requirements.
- Communication weakness in the team.
- Very complex multi-piece project.
- The product is complicated for implementation and the integration of project modules is difficult.

## Poor Management

- Lack of leadership and analytical skills,
- Poor risk management in software development,
- Poor communication and interaction within the team.

## Copyright

- Lack of leadership and analytical skills,
- Poor risk management in software development,
- Poor communication and interaction within the team.

Ratio by Risks

