

Exercise 1 – Project Description, Setup, and Requirements

Learning objectives: Recap Git and Requirements Engineering

This semester, we implement a project across the exercise sessions. This exercise sheet introduces you to the project and walks you through the project setup. Some of the information in this description will not be important for today, but will serve as a reference for future exercise sheets.

The project:

Browser-Based TicTacToe for 2 Players

Our boss wants to play TicTacToe with his child during lunch break. Of course, our boss plays from his office computer, while his child plays using their smartphone during school break. While playing, the two of them usually chat using WhatsApp's voice call feature.

O		
X	O	X
X		O

Player 2 won!

The game must have the following features:

1. It must be playable solely in a browser, requiring no additional setup
 1. We need to support both desktop and mobile browsers and screen sizes
2. It must be usable by two players playing a single concurrent game
3. Players can place their marks on the 3x3 TicTacToe field, when it is their turn
4. The game displays a message when the game is over. This message indicates the winner or if the match resulted in a draw.
5. Any player can reset the game to start a new match once a winner (or draw) has been determined.

Once done, the project will be hosted in our company's data center. Consequently, it must meet the following criteria as specified by our company's policies on in-house developed software:

1. The source code must contain at least some unit tests that must be executed successfully before deployment
2. The software must be delivered in a single package to be deployed as one.
Effectively, this means no separate frontend / backend packages and no distributed systems.

Part 1 – Project Setup

Ask for a Git repository to be created for you.

1. Check out the Git repository
2. Copy the README.md from the moodle course into the repository. Enter your information and the information of your collaborators.
3. Commit and Push the README.md file
4. Make sure your changes appear in GitLab

Part 2 – Requirements

In your Git repository create a `docs` directory. In this directory, create a file named "`requirements.md`". Write the results of the following tasks into this file.

1. Create short personas (1-2 paragraphs each) for both of our users.
2. For each persona: Create a user journey through the use of our TicTacToe-Software
3. Commit and push the new file (incl. its content)