# JavaScript for Front-End – Teamwork Assignment

This is the Teamwork assignment for the [JavaScript for Front-End course @ SoftUni](https://softuni.bg/courses/javascript-for-front-end).

## Overview

You are tasked to design and implement a web application from scratch using **HTML**, **CSS** and **JavaScript**. The application should work with a **database** in **Firebase** or some other **mobile Back-End** … Or **manual Back-End** (if you are brave enough). The application should render content **dynamically**, which you are to do mainly with **JQuery**, or a **Front-End Framework** by choice (again, if you are brave enough). The application is to be written **solely** by your team, **from scratch**. The only ready code, you can use, is from **different** **frameworks** (Bootstrap included in this). Now that we have all that cleared out, lets see what are the main requirements.

## Requirements

* The content of the application should be rendered **dynamically**, which means you are **NOT** **allowed** to **refresh** the browser page with any functionality.
* The application should support **at least 5 different** layouts, which means your page should be able to present content to the client, in **at least 5 different formats**.
* The application should be **optimized** at the **absolute maximum**, which means:
  + Do **NOT** store unnecessary data from the database on the Front-End.
  + Do **NOT** **just hide** unnecessary HTML. **clear** it and **load** it again when it is needed.
  + Do **NOT** **follow** the steps above **=**. Think a little (**research**), in some cases those steps are **NOT** the **best decision**.
  + If you think (**research**) of something else that might optimize your application, **do it**!
* The application’s **source code** should be written in a **high-quality way** at the **absolute maximum**.
  + Do **NOT repeat** code, **reuse** it.
  + Do **NOT** write **colossal** functions, **every function** should have **exactly one purpose**, and it should do **nothing more than that purpose**.
  + If you think (**research**) of something else that might increase the code quality of your application, **do it**!
* The **entities** you are going to use in your **database**, should be **at least** **3**.
  + **Example**: **Continents, Countries, Towns**
  + **Example**: **Galaxies**, **Solar** **Systems**, **Planets**
  + **Example**: **Libraries**, **Authors**, **Books**
  + It can be something completely **fantastical**, if you have great creativity.
* The application’s **source code** should be **open source** and should be **uploaded** in a **source** / **version control system** (GitHub, Bitbucket…).
* The application should have a **good design**, it should be **user-friendly**.
* Any other additional functionality will be treated as **bonus**.
  + **Do not sacrifice required functionality** for **bonus functionality**.
  + Bonus functionality is worth significantly less than the Required functionality.

Now that we have cleared out the requirements of the teamwork project, we can proceed to the evaluation section, where you will see what are the key points that will determine your team’s result in front of the jury, on the public defense.

## Evaluation

* Application Design (HTML & CSS) – 0…20
* Application Functionality (Dynamic Rendering, Layouts, Events) – 0…20
* Application Database (Entities & Hierarchy) – 0…20
* Application Code Quality (JS Quality, HTML & CSS Validation) – 0…20
* Application Management (Separation of tasks, Regular Commits, Presentation) – 0…20
* Bonus (any additional, non-required functionality) – 0…20

Now that we know every requirement and evaluation criteria about the teamwork project, let us see what lies in the Project Defense section.

## Project Defense

The Project Defense is **public** and **in front** of a **jury** and **other students**. You will have approximately **15 minutes** in total for the project defense. You are advised to leave **at least 5 minutes** for **questions** from the jury or the other students. On the **15th minute** you will be asked to **step down** from the stage. Present the **most important parts** of your application, to conserve time.

## Teams Foundation

You will be working in a **team**. Teams will consist of **4 members or less**, randomly chosen from all students requested a teamwork.

Every **single person** must provide **at least 1 active dynamic social media channel**, on which he can be **reached** and **communicated** with. (**e-mail** is **not dynamic**, it is **terribly slow**)

Every **single person** must get along well with the team. If the team loses its harmony the project is doomed.

* Don’t be **that guy**!!!
* Respect your teammates and listen to their **opinions**.
* Provide **constructive criticism**, not just hate.

Every **single person** must **contribute** to the **project**, in some way... Code is **NOT the only thing** a project requires.

Every **single person** must use a **source control system**.

## Give Feedback about Your Teammates

After the project defense, you will be invited to **provide feedback** about all your teammates, their attitude to this project, their technical skills, their team working skills, their contribution to the project, etc. The feedback is important part of the project evaluation so **take it seriously** and be honest.

## Additional Info

You will **NOT earn bonus points** for **extending** the **required functionality**. For example … 10 layouts or 5 database entities do **NOT** count as bonus functionality. Bonus functionality is something which is **NOT mentioned** in the required functionality, like client authentication (login / register) for example, or something else.

Work on the **public presentation** part of the **project**. An exceptional presentation may “**hypnotize**” the **jury**, winning you additional defense time (do **NOT** push your luck though).

If you sabotage your teammates, by **not contributing** to the project, or by **not getting along** with the team, or by **any other case** that might **interfere** with their work, you **will suffer severe sanctions**.

If someone **falsely accuses** a teammate of sabotage, **without any particular reason**, **that someone** **will suffer the sanctions**.

The sabotages will be **investigated** **thoroughly** **after** the **defenses**, and all cases will be observed until a final consensus is reached.

The **sanctions** will be placed on the **course final result**, which means – they can **decrease** your **course grade**, **regardless** of your **exam result**, **homework points**, or **course bonuses**.