# Teamwork Project Assignment for the [JavaScript Applications Course @ SoftUni](https://softuni.bg/courses/javascript-applications)

Design and implement a **SPA** (**Single-Page Application**) by your choice. It must follow several rules though. You will find everything you need to know about the project in this document.

## Technologies

For the project development you must use:

* **JavaScript** – your main functionality must be in JS
  + **AJAX**, **REST** and communication with the **back-end**
  + **ReactJS** for rendering the templates for the **UI**
  + **Models**, **Views**, **Controllers**, **Services**, **Helpers** and **Entities** for the main functionality
* **HTML** & **CSS** – you must provide some normal UI for the user
  + You may use **CSS generating frameworks** like **Bootstrap** etc.
* **Kinvey** – as your **back-end**, use the **Kinvey** **API**, since it is the easiest and most appropriate to use

Optionally you are allowed to use something different from **ReactJS** for the template rendering, or **Kinvey**, for the back-end logic, but these 2 are closest to the course’s target, so they are highly recommended.

## Team by Choice

You are allowed to work in a **team by choice** or to work **individually**.

Your team should consist of **2** to **5** **people**.

Everyone should use a **source control system**.

* Use **Git** or other source control system for your project development.
* Use **GitHub** as your source-control system.
* Your **source code** should be open-source and **public** in Internet.

## Project Scope

Your project should implement **at least** the following **functionality**:

* User **registration**, **login** and **logout**.
* **View** some content (e.g. blog articles, listings, photos, issues, publications).
* **Create** new content (e.g. post new blog article, post new listing, upload new photo, create new issue).
* **Edit** existing content(e.g. editing blog post content, photo captions, issue status).
* **Delete** existing content(e.g. deleting posts, issues, photoes, publications).

Your project should keep its data in a **Kinvey** or some other **backend service**.

## Requirements for the Team Projects

The minimum number of application pages and database tables required for the project depend on the **count of team members**.

* Minimum (3 + **team\_members\_count**) **pages** (views).
* Minimum **3** **database tables** (or data collections / entities).
* Implement **more functionality** by choice. Larger teams should implement more functionality.

## Example Project

### Blog

A simple Single-Page Application which supports User Registration / Login / Logout, Post Creation, Post Listing, Top Posts etc.

You can find its source code [here](https://github.com/DCay/SoftUni-Work/tree/master/SoftUni-TechModule-Blog).

**NOTE:** This project does not support the full functionality you need to implement for your team project. Its purpose is only to give you a surface idea of what your application should be like. You are **NOT ALLOWED** to copy this application’s source code directly. You are **ALLOWED** to use any element of it as an inspiration to your team project.

## Forbidden Techniques and Tools

* Your project should be created mainly by **you and your team**.
* You are **not allowed to copy a project from Internet** and present it as your development.
* You can use external libraries, frameworks and tools, but **not to clone a project** and present it as yours.

## Commit Logs

* Each team member should have **at least 5 commits** (changes) in the project repository.
* Please **commit every day** during the project development to demonstrate your work progress.
* More commits (especially in more than the last 1-2 days) are better during the project assessment.

## Deliverables

Submit the **URL of your project source code** as deliverable, e.g. **https://github.com/DCay/SoftUni-Work/tree/master/SoftUni-TechModule-Blog**.Each team member submits the same **source code URL**. Put the following assets in the project repository:

* The complete **source code** of your project (JS, HTML, CSS, images, scripts and other files).
* Any other project assets (optionally): documentation, design, tests, etc.

## Public Project Defense

Each team will have to deliver a **public defense** of its work in front of the SoftUni trainers.

The teams will have **only ~15 minutes** for the following:

* **Demonstrate** the application’s functionality (very shortly).
* Show the **source code** and explain briefly how it works.

At least **one team member** should come at the defense.

Hints for better presentation:

* Be **well prepared** for presenting maximum of your work for minimum time.
* **Open all project assets** beforehand to **save time**: open your site in the browser, open your project repository page to show the commit logs, etc.
* Test how to connect your laptop with the **multimedia projector** before the defense to save time.

## Assessment Criteria

* **Functionality –** (all the required functionalities specified in this document, correct use of **AJAX, REST and JSON** for accessing the server-side data) – **0…10**
* **Code quality** **–** (well-structured code, split into modules and files, good naming, formatting, etc.) – **0…5**
* **Security** **–** (correct data validation, absence of cross-site scripting / unescaped data in the UI, etc.) – **0…2**
* **Teamwork –** (GitHub used; each team member contributed in 3 different days; distribution of tasks) – **0…10**
* **Bonus –** (bonus point are given for implementing optional functionalities) – **0…3**

## Deadline

All projects should be submitted not later than **07-December-2016**.