# Homework: SPA Applications and Applications Architecture

This document defines the homework assignments from the ["JavaScript Applications" Course @ Software University](https://softuni.bg/trainings/coursesinstances/details/11). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## Refactor Books project to work with routing, templates and promises

* Refactor your **Books** project from **Consuming Remote Data** homework to work with routing, using templates and using promises to make your AJAX requests.
* You can use libraries of your choosing (recommended libraries: [Sammy.js](http://sammyjs.org/) and [Mustache.js](https://github.com/janl/mustache.js)).
* It is recommended, that if you have not used promises, to use them in your refactored project (recommended libraries: [Q.js](https://github.com/kriskowal/q) or jQuery promises).
* It’s a good practice to follow the structure from the demo shown in class:
  + [Video](https://www.youtube.com/watch?v=vYPA0RCRw60)
  + [GitHub code](https://github.com/SoftUni/JavaScript-Applications/tree/master/SPA%20Structure)

## List All Books

Create a HTML5 project consisting of HTML, CSS and JS files. Add an AJAX call that takes all books from your application in Parse.com as JSON object and displays them at page load.

* If a user has been logged in, show the books that the user owns in a special section on the page ordered by the name of the author.

## Create a Book

Add a HTML form with submit button for adding a new book. When the button is pressed, create a new book at Parse.com using its REST API with an AJAX request.

* When a non registered user creates a book, the book becomes public and can be edited and deleted by all logged users.
* When a book is created from a logged in user, it can be viewed by all users, but edited and deleted only by its owner

## Edit a Book

Implement "Edit a Book" functionality. Clicking on a book should load its data in a HTML form. By clicking the submit button, the book data at Parse.com should be updated at the server side with and AJAX request.

* Only logged users can edit a book.
* The book can be edited only by the user that created it. If no registered user created that book, it can be edited by all users

## Delete a Book

Implement "Delete a Book" functionality. Each book should have "Delete" button. Clicking on it should delete the book at the server side with and AJAX request to the REST service.

* Only logged users can delete a book.
* The book can be deleted only by the user that created it. If no registered user created that book, it can be deleted by all users

## \* Add Tags for Each Book

Implement tags for the books. Tags should be stored at Parse.com in the Book class in a column "**tags**" as arrays of strings. List the tags for each book. Implement add / edit / delete for tags when a book is created / updated.