This document describes the **teamwork assignment** for the **End-To-End JavaScript Applications** course at Telerik Academy.

# Project Description

Design and implement an **End-To-End JavaScript application**. It can be a discussion forum, blog system, e-commerce site, online gaming site, social network, or any other Web application by your choice.

The application should have **public part** (accessible without authentication), **private part** (available for registered users) and **administrative part** (available for administrators only).

## General Requirements

Your Web application should use the following technologies, frameworks and development techniques:

* Have at least **15** different dynamic web pages
* Use **NodeJS (Express** is allowed)for the server (use an **MV\*** pattern)
* Use **AngularJS** for the client
* You should use **Jade** template engine for generating theUI
* Use **MongoDB** as database back-end
* Use **Mongoose** to access your database
  + Using Repository pattern/Unit of Work is not mandatory
* Create at least **two tables with data** with **server-side paging** and **sorting**
  + You can use Kendo UI Grid or generate your own HTML tables
* Use responsive design (it may be based on **Twitter Bootstrap)**
* Use **Passport** for managing **users** and **roles**
  + Your registered users should have at least one of the two roles: **user** and **administrator**
* Use at least **one AJAX form and/or WebSockets communication**
* Write **few unit tests** for your controllers logic
* Apply **error handling** and **data validation** to avoid crashes when invalid data is entered
* Handle correctly the **special HTML characters** and tags like **<br />**
* Prevent yourself from security holes (XSS, XSRF, Parameter Tampering, etc.)
* Use a **source control system** by choice for team collaboration.

## Public Part

The **public part** of your projects should be **visible** **without authentication**. This public part could be the application start page, the user login and user registration forms, as well as the public data of the users, e.g. the blog posts in a blog system, the public offers in a bid system, the products in an e-commerce system, etc.

## Private Part (User Area)

**Registered users** should have personal area in the Web application accessible after **successful login**. This area could hold for example the user's profiles management functionality, the user's offers in a bid system, the user's posts in a blog system, the user's photos in a photo sharing system, the user's contacts in a social network, etc.

## Administration Part

**System administrators** should have administrative access to the system and permissions to administer all major information objects in the system, e.g. to create / edit / delete users and other administrators, to edit / delete offers in a bid system, to edit / delete photos and album in a photo sharing system, to edit / delete posts in a blogging system, edit / delete products and categories in an e-commerce system, etc.

## Optional Requirements

* Nice looking UI supporting of all modern and old Web browsers
* Good usability (easy to use UI)

## Deliverables

Put the following in a **ZIP archive** and submit it (**each team member** submits the same file):

* The **source code**
* **Don't submit the** **NPM packages**! They are not needed and take too much disk space.
* Optional: brief documentation (few sentence **readme** file).

## Public Project Defense

Each team will have to make a **public defense** of its work to the trainers (in 5-10 minutes). It includes:

* Live **demonstration** of the developed Web application (please prepare sample data).
* Explain application structure and its **source code**: Controllers, Views, Data Models, C# code, etc.
* Show the **commit logs** in the source control repository to prove a contribution from all team members.

## Give Feedback about Your Teammates

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.