**Entry Level WEB app project**

**DESCRIPTION**

The application must provide basic INSTRAGRAM like functionalities for image upload and sharing. Access to entire application resources must be behind registration and login only. It’s up to developer decision how to store and manage image related resources (BLOB objects or physical files) onto server.

**TECHNOLOGIES**

Front-End

* AngularJS framework (<https://angularjs.org/>)
* Bootstrap (http://getbootstrap.com/)
* No jQuery framework usage, i.e. using vanilla JS
* Preferred usage of EcmaScirpt6 and JS OOP methodology (class/constructors)

Back-End

* RESTful API – HTTP access control (CORS) with JSON objects
* JS based back-end, Node.js / Express.js frameworks (preferred solution) or any server-side language (PHP, JAVA, .NET etc.)
* Any desired SQL/noSQL database (MySQL, MSSQL, Oracle, MongoDB, Elasticsearch etc.) for data storage

**DESCRIPTION**

The application shall be single-page based, mobile friendly and to work under any modern browser. The application must contains following modules/functionalities:

1. *Registration form*
   * First name – varchar(40)
   * Last name – varchar(40)
   * Password – varchar(40)
   * Confirm password – varchar(40)
   * Email – varchar(40), **unique**
   * Phone – numeric(15)
   * Country – predefined drop-down list
   * Nickname – varchar(40), **unique**
   * Avatar – image/blob

All fields except avatar are required. Registration process must validate entered data on front-end level and notify the user for missing data, wrong format or already existing mail/nickname into database. The application must login and redirect the user to the main page automatically after successful registration.

1. *Login*
   * username
   * password
   * remember me (checkbox)
2. *User details* – user must have ability to update all his personal details except email address. Nickname uniqueness requirement remains valid.
3. *User repository* – user must have ability to browse his uploaded objects and to delete one or more of them. For each object the user must have ability to see his description and all comments from other users.
4. *Image upload*
   * form with ability to choose and upload desired image file (jpg, gif, png, bmp only) which shall interact with operation system in order to be able browse for images;
   * size limit of 5MB per image;
   * field for description/comment;
   * predefined drop-down list with categories (5 are quite enough by your choice);
5. *Main page* - list (thumbnails) of all uploaded active images from all users. The page must include following functionalities:
   * Dynamic filter by category (drop-down options)
   * Dynamic filter by username or part of it (text field)
   * Dynamic sort by category and upload date, ASC/DESC orders (drop-down options)
   * Dynamic (infinity) scroll which loads additional images under existing ones. The number of how many objects to be loaded shall be application parameter.
   * Each thumbnail must be hyperlink to image details page described below.
6. *Image details page* – preview page of original image with following functionalities:
   * Image details (username who has uploaded the image, datetime and description)
   * List of all comments from other users;
   * Image Like/Dislike icons with counter for each of them;
   * Form to leave a comment (under the image or as modal by your choice).
7. *Logout*