

# **Project Proposal:**

## **Indexing and retrieving Metadata from an Instagram Dataset**

**Jordi Morera Trujillo**

**Eric Presas Valga**

**Adrià Carbó Duch**

## **Project Overview and Goals:**

The propose of this project is to build a web application that retrieves some data from an Instagram images dataset given by the teacher. Some new techniques to develop a web application will be introduced in our work in order to learn how this new tools work.

Inspired by the new kind of web applications that has been appeared around the last few years, which are using the work presented in 2009 by Ryan Dahl called Node.js, and it's support for Mongo DataBase.

The main goal of this project, as a deep back-end talking, consists on indexing the metadata from our images dataset to a Non relational database (MongoDB). Since this kind of databases has appeared, a lot of applications are taking use of it because of it's JSON formats for the collections. Since our metadata set is provided in JSON format, we are taking use of this kind of databases that store information in collections.

As a support for giving some "real" application to our work, we also propose to make a web application in order to simulate the main basic thing that you can do with a metadata dataset of images. Basically we are going to focus on GET and POST methods from REST applications.

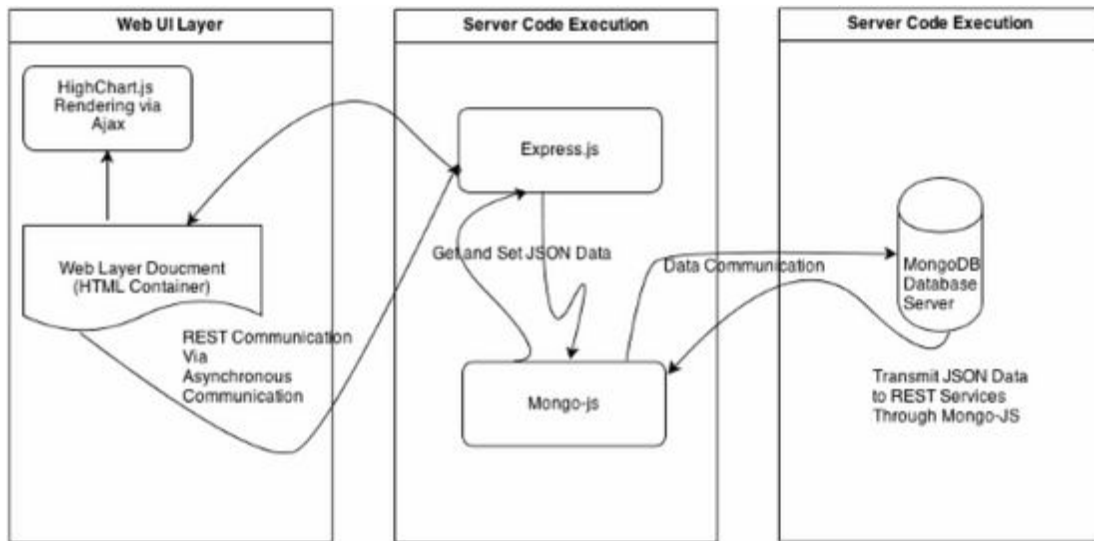
## **Project Background:**

In this section, the architecture of the system will be introduced in order to provide some information about which kind of tools and frameworks that we are going to use.

The server side is structured in two main parts, the server part of our web application and the database server to provide the information.

- Application server-side: Is where all the information is processed, there we have the post and get methods that allows us to render the html pages. Also, all the information about the connections, frameworks used, public folders, and more are specified in app.js.
- Database: Is the server where the database is installed and working, usually it is placed in the same machine pointing at some other port or in the cloud since MongoDB offers free services for all the people that want to try it from cloud.

The view side



## Project Requirements and Specifications: