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1 Introduction

The goal of the assignment was to create a functional blog site utilizing a CRUD (Create, Read, Update, Delete) functionality and architecture. The blog named Mega cool Blog provides the user with easy interface, serving the purpose for sharing thoughts and ideas or grouping information together on certain toping. The interface was created using HTML as a description of the data, and CSS to implement decoration. The logic and validation are done with java script, no addition libraries. On the server the site is hosted locally using Node JS to receive and respond calls from the client and the database. The data provided is stored in a MongoDB database, but is not stored cloud based using mLab free service that provides more than enough memory for small to even medium community. The site itself provide registration for users that want to participate by posting on there own blog page and free access to all blogs for reading as regular user. The blog also provides medium security restrictions because of the users provided information, also maintains express posting system, making it easy and fast to use on the go.

2 Software design

Designing the file system becomes easy with the including of the NodeJS as the folders subfolders and file location are automatically created when the project and the template engine are set up. The biggest challenge was to define and implement the logic of the site functionality as a blog has evolved in a very broad and generic convention that describes large portion of functionality that in some cases contradict each other. Researching the more famous sites that falls under the blog category and Googling the definition of blog, witch by Dictionary standards is: A regularly updated website or web page, typically one run by an individual or small group, that is written in an informal or conversational style.. The result first part of the research shows that a blog must be site that is made for sharing the daily thought ideas or anything else fast with people that are interested in to your activities, ideas or experiences. The second part of the research was dedicated to find out what is driving the use of blogs, that information was collected by talking to colleagues and friends and the result show that people prefer blogs and that the only requirement shown more then ones was to be as fast as possible so that it can be done on the go from mobile devise. The result of the entire research made me design the site for maximum speed and simplicity

of just sharing information on the internet. No external libraries have been used for any of the programing languages except the NodeJS for witch the libraries are essential to create a response API. The last part of the design taken in consideration the security and the implementation was to remove any unnecessary information transfer between server and client cite and that all the data processing and accessing of the database is done on the server site, also redundant evaluation when possible without leaking information to the client.
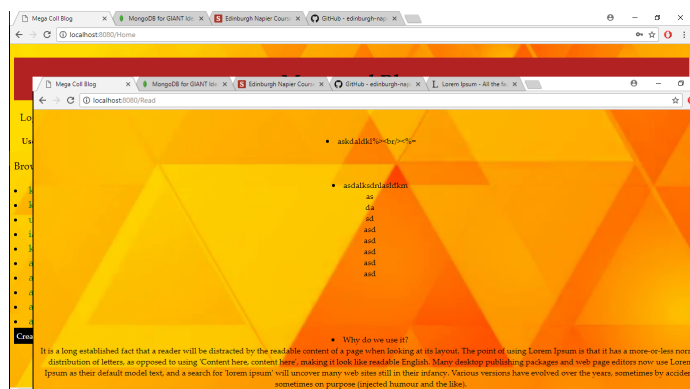
3 Short description

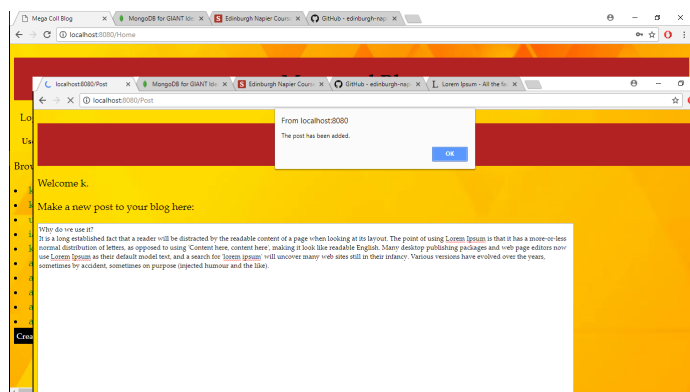The use of the cite is very simple and fast. The user first need accesses the site home page (screenshot 1).

To take full advantage of the blog capabilities the user need to make a registration by clicking on the register button, filing the form and following the instructions (screenshot 2)

, OPTIONAL. The viewing of other member posts is simple, just find the User name of the person in interest and click on it (screenshot 3).

To create a blog, registration is required, after which the user need to log in and that will give the user his personal posts and the ability to add new ones very fast and simple (screenshot4).

4   Critical evaluation

The blog created was a lot of work that provides a lot of functionality, but I dissent caver all requirement of CRUD as it doesnt support updating of all elements in a detail that loud be preferable, but the site is still very responsive and fast to use with the all basic functionality required. Unfortunately, there cant be made a realistic comparison with a professionally made blog, as large amount of improvement and conveniences are missing. Also, I dont think I have the knowledge or the experience with the languages used to create better product in the time frame as almost everything that I wanted to make requires researching of methods and function, to be achieved. Future improvement on the blog will most likely include separation of the personal blog on different topics and adding more customization over the posts, as well as fixing some miner convenient problems like auto evaluation on refresh. Also the code need to be better separated into more logical js files for readability.

5   Personal Evaluation

This blog site is the most difficult and complex project I have attempted. Most of the languages used are new for me and I was having hard time grasping the concept of NodeJS is the short time, but all the new skills that I learned are fundamental in the modern programing and very useful, as there being used now to develop the new and improved programs. Overall, I am not very satisfied with the blog site as a personal standard, but I have better understanding of how a website and server works as well as how they communicate. I feel that this was a good first project to introduce me to NodeJS and server systems. Unfortunately to improve the blog I need to start the project again and clear all the mistakes that I make doing this one.

References

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