**Green Field Project (Level 2)**

**Short Description:**

* **Develop an interactive application you will choose it, develop it using your logic and creativity.**

**Estimated Working Time:**

* **4-7 Days.**

**Learning Objectives:**

* **Get familiar with Deployment [Heroku + mLab or Atlas].**
* **Get familiar with the fundamentals of JavaScript that we took.**
* **Get familiar with GitHub Collaboration [Merging and Rebasing].**
* **Get familiar with Full-Stack {MERN} [MongoDB, Express.js, React.js, Node.js].**

**Project Ideas:**

* **Game.**
* **Quiz page.**
* **Recipe generator.**
* **Store (books, games, movies, food).**
* **Suggestion website (books, games, movies, food).**
* **To-Do list (can add, complete and remove tasks).**
* **Any other idea you want to implement but after take the confirmation from me.**

**Evaluation Criteria:**

* **You should have an authentication.**
* **The webpage design is clean and nice.**
* **The code dry and clean (don’t repeat yourself).**
* **How you implement the thing we learned before.**

**Target Skills:**

* **Competency 1 - Format an application (Level 2 [Adapt]).**
* **Competency 2 - Produce a static and adaptable web user interface (Level 3 [Implement]).**
* **Competency 3 - Develop a dynamic web user Interface (Level 2 [Adapt]).**
* **Competency 5 - Create a database (Level 1 [Imitate]).**
* **Competency 7 - Develop the back-end part of a web or mobile web application (Level 1 [Imitate]).**

**Group Composition:**

* **To be done in groups of 4.**

**Deliverables:**

* **A link for (GitHub repository that is inside an Organization) + (Heroku deployment) + (Trello Dashboard).**

**Technologies:**

* **CSS.**
* **HTML.**
* **JQuery.**
* **JavaScript.**
* **Bootstrap (Optional).**
* **React.**
* **Express.**
* **Node.**
* **MongoDB.**

**Supported links:**

* [**https://jquery.com/**](https://jquery.com/)
* [**https://getbootstrap.com/**](https://getbootstrap.com/)
* [**https://developer.mozilla.org/en-US/**](https://developer.mozilla.org/en-US/)
* [**https://developer.mozilla.org/en-US/docs/Web/JavaScript**](https://developer.mozilla.org/en-US/docs/Web/JavaScript)
* [**https://reactjs.org/**](https://reactjs.org/)
* [**https://nodejs.org/en/**](https://nodejs.org/en/)
* [**https://expressjs.com/**](https://expressjs.com/)
* [**https://www.mongodb.com/**](https://www.mongodb.com/)
* [**https://mongoosejs.com/**](https://mongoosejs.com/)
* [**https://www.heroku.com/**](https://www.heroku.com/)
* [**https://trello.com/home/**](https://trello.com/home)
* [**Merging vs. Rebasing | Atlassian Git Tutorial/**](https://www.atlassian.com/git/tutorials/merging-vs-rebasing/)
* [**The Ultimate Github Collaboration Guide - Jonathan Mines – Medium/**](https://medium.com/@jonathanmines/the-ultimate-github-collaboration-guide-df816e98fb67)
* **You must be able to explain all the parts of the code.**
* **You will present your application at the end of the week.**
* **You code should be dry and clean (**<https://metova.com/dry-programming-practices/>**).**