

Goal

- ❑ We realize that in order for engineering or computer science students to land an internship or an entry-level job, it's almost required that they have a portfolio of their technical projects during their university career to showcase to the recruiters to demonstrate their technical skills and knowledge.
- ❑ Therefore, we want to build an application enabling students to find their partners for their next technical projects.

Motivations and Objectives

- ❑ Motivations
 - Make it easier for engineering students to come together to produce a meaningful project.
 - Help technical students gain real-life experience during school.
- ❑ Objectives
 - Build an application that enables students to explore and join in various projects that other students has initiated.
 - The application should let students discover different projects that they find interesting.
 - This application can be a transparent interacting advertising tool for professors, researches, etc. to post new project opportunities.

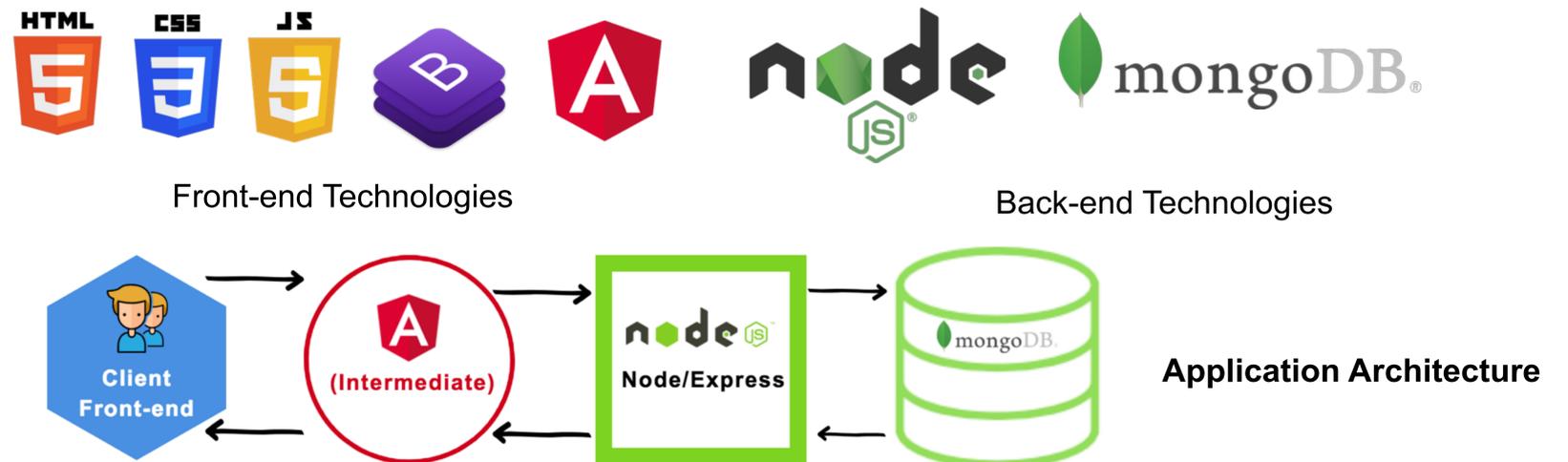
Research Challenges

- ❑ Initially, we wanted to build our application with Java (Tomcat server) technology. However, as we were learning more about the tools and got more experienced, we decided to switch to the M.E.A.N stack, which consisted of MongoDB, ExpressJS, Angular, NodeJS. Why? Because this gives us easy access to a Model View Controller (well defined architectural pattern for developing UI that divides an application into 3 interconnected parts). Also, simpler configuration.

Acknowledgement

We would like to thank Professor Maria Striki for her tremendous support, helpful advice as well as her expertise and knowledge.

Methodology

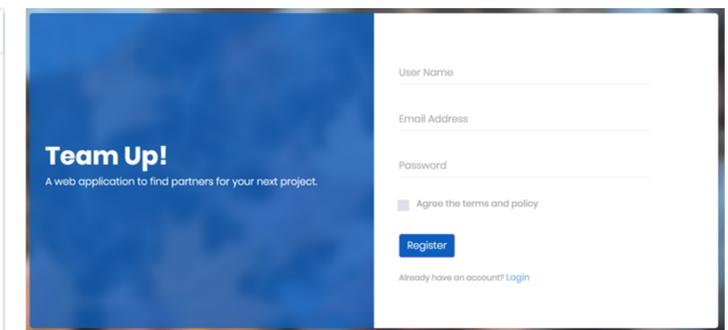


Angular JS is an intermediate layer which acts as a messenger between Front end and server. The data is received by the server which then accesses the mongoDB to either store or retrieve data.

Results

The screenshot shows a web form titled "Details about your project". It contains several input fields: "Project Title", "Project Description", "Skills Needed", and "Number Of Partners". There is a radio button selection for "Electrical Engineering or Computer Engineering", with "Electrical Engineering" selected. A "Project Topic" dropdown menu is set to "Electromagnetics and Optoelectronics". At the bottom, there are "Cancel" and "Submit" buttons.

Students can describe their projects and their particular needs



Students can register and sign up

Future plan:

- In the future, we plan to implement the survey as part of the register process to know more about each student to be able to recommend certain projects that they may find interested in.
- Moreover, we will also implement voice recognition feature to register and login and students can find their partners based on location.

References

- [1] <https://docs.mongodb.com/manual/mongo/>
- [2] <https://nodejs.org/en/>
- [3] <https://bootstrapious.com/>