BuildYourSelf

1. Description

An intuitive web application designed to streamline the registration and job application process for students and teachers at training centers, enhancing the digital experience while fostering educational growth.

2. Team ✨

- **Youness Boumlik**
- **Abdellah Boulidam**

✏️ Roles

We are both **full-stack developers**, meaning that we can work on both the frontend and the backend of the project. We have decided to work together on everything, without dividing our roles or tasks. We believe that this way, we can collaborate more effectively, exchange our feedback, and learn from each other. We are confident that we have the skills and the motivation to complete the project successfully.

3.Technologies

1. **HTML**: This is the standard markup language for creating web pages. It provides the structure of the page.
2. **CSS**: This is used for styling the HTML elements. It enhances the look and feel of the website.
3. **JavaScript (JS)**: This is a programming language that makes the website interactive. It is essential for client-side scripting(Node JS,JQuery).
4. **MySQL**: This is a relational database management system used for storing and retrieving data.
5. **Netlify**: This is a platform that offers hosting and serverless backend services for web applications and static websites.

✏️ Other Options

- [ ] An alternative to Netlify could be GitHub Pages. Netlify was chosen over GitHub Pages due to its continuous deployment from Git across a global application delivery network, automatic HTTPS, and DNS management.
- [ ] An alternative to MySQL could be MongoDB, a NoSQL database. MySQL was chosen for its robustness and efficiency in handling structured data.
- [ ] An alternative to JS, could be Flask and Jinja, but JS was chosen because we want to develop ourselves more in this programming language.

4. Challenge Statement

The Portfolio Project is intended to solve the problem of **managing a training center** online. It will allow students to register for courses and view their schedules. It will also allow teachers to apply for jobs.

The Portfolio Project will not solve the problem of **managing the physical and financial aspects** of the training center, such as allocating classrooms, tracking expenses, and generating reports. These tasks require a desktop application that can handle more complex and sensitive data. We have developed such an application using PYQT5 in Python in a previous project.

The Portfolio Project will help **students, teachers, and administrators** of the training center. The students will be able to enroll in courses that suit their needs and preferences, and access them from anywhere. The teachers will be able to showcase their skills and qualifications, and deliver high-quality courses to the students. The administrators will be able to monitor and evaluate the performance and satisfaction of the students and teachers, and improve the quality and diversity of the courses offered.

The project is **not dependent on a specific locale**, as it can be used by any training center that offers courses. However, it may be more relevant for **training centers that operate in multiple locations** or have a large and diverse student population.

5.Risks

✏️ **Technical risks:**

1. Deployment issues: The project may encounter difficulties or errors when deploying the application to different platforms, environments, or devices.
2. Database problems: The project may face challenges or errors when working with the database, such as data loss, corruption, inconsistency, or unauthorized access.

✏️ **Non-Technical risks:**

Time Constraints: Project delays can lead to cost overruns and missed opportunities.

6.Infrastructure

- **Branching and Merging**: We will use Git for version control, following a feature-branch workflow. Each new feature will be developed in a separate branch, then merged into the main branch upon completion and testing.

- **Deployment Strategy**: We will use Netlify for deployment. Netlify allows for continuous deployment;
- **Data Population**: We will populate our app with data through a combination of manual data entry.

7.Existing Solutions

While there are several existing solutions that offer similar functionality to our web application, ours will stand out in its unique approach. Our web application will feature a user-friendly interface, making it easy and intuitive for users to navigate. We will implement special APIs for login, enhancing the security and efficiency of user authentication. Additionally, we will handle the database in a highly efficient manner, ensuring fast and reliable access to data. Along with these, we will incorporate many other features that will make our web application a preferred choice for users.