**Minds Alike Hub: Web App Dev. Project**

**Executive Summary**

*The goal of this project is to develop a web application which will allow students to connect with like-minded students for projects. The web application will be uniquely created in its own right. Multiple advantages will come with the usage of this web for both students and potential employers for the students. It’ll act as a portfolio of as well for the students.*

**Business Objectives**

*Within this web application will also present network opportunities as well as possibly new data companies that the students work on via projects. Thus, leaving breadcrumbs and great inspiration for other students to view as they progress within course. It’s essentially a unique community of like minds to learn, share, and collaborate at a prime stage in their careers, foundation.*

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**Background**

*As a part of some schools’ courses, it’s important that their students get a idea of how they will be working in their industries. Studies show that students who had key experiences in collaborating with peers as professionals has a higher rate of success in their industries post completion. Also, the peers in which they work with make great networks and references.*

**Scope**

*What’s included in this project?*

*~Data Security: Each student will have their own login and accounts.*

*~Privacy preserving computation technologies to enable Data Collaboration in Multi-party systems.*

*~This project aims to expand knowledge on edgeless systems solution and build a new demonstrator to promote this concept with Exeter clients.*

*We incubate and prototypes new concepts through applied R&D projects that are expected to have a significant strategic impact on Exeter’s business. My dedicated team of technologists and researchers work with leaders across the company to invest in, incubate and deliver breakthrough ideas and solutions that help our clients create new sources of business advantage.*

**Functional requirements**

*The functions required my team and I to plan a project to develop a web application which will allow students to connect with like-minded students for projects. The students will be able to be able to log into a web application and either post an idea for a project or search for other student's ideas to find something they are interested in working on. Students will have the ability to connect with each other and discuss working together. These discussions will be possible within the application via direct messaging, video calls, as well as voice chats.*

*This route we’re taking is quick to market being that its simple and straight to the point as far as functionality goes.*

*The students will this prefer this platform to connect and build better communication. Whereas the user experience is versatile and sociable, similar to social media platforms only its for the students and their projects. We’ll also include surveys to the students for feedback that’ll be collected at the end of each course.*

**Personnel requirements**

*To make this project a success the following is required:*

*The dedicated development of this project with 5-10 people. This team will design a basic and clean logo, web and mobile application. The team will consist of Project manager, Project architect, UI/UX designers, Web developers, and QA and testing specialists.*

***Project manager:*** *Every team needs a leader who will assume responsibility for making the most important decisions and will pave the way to the team’s goal.*

*Work tasks include:*

*~Communication with a customer.*

*~Scheduling the project and providing time estimates.*

*~Planning out the necessary human resource efforts and task allocation.*

*~Coordination of joint work of other team members.*

***Project architect:*** *My project architect will decide on the architecture most suitable for the Exeter’s needs. After approving the architecture, the architect will remain in charge of everything regarding frontend-backend-database data exchange and later – web app integration.*

***UI/UX designers:*** *Will manifest layouts and wireframes. Conduct thorough user experience research to convey the expectations of the future web app’s target audience and avoid the web app failing to address the needs of its users.*

*It is a difficult work to give an abstract concept of human-computer interaction a tangible and visible form. And it is hardly ever done from the very first attempt. Creating a few variants of a future user interface, making them better with every review session, and finally choosing the most successful one.*

***Web developers:*** *Back end and a front end – there will be at least one developer responsible for each of the two. They will work with the layouts provided to them by UI designers and transform static interface images into a fully functional web app client-side. Their skills include programming in HTML5, CSS, JavaScript and work with front-end libraries and frameworks (Bootstrap, Foundation, Semantic UI, Angular, React JS, etc.).*

*Back-end developers are responsible for creating the server side of a web app and are proficient in either PHP, Python, Java, .NET, or Ruby on Rails, as well as in the tools and web app frameworks based on them. My developers will ensure that the back end handles the data it receives and sends back to the front end in a correct, secure, and stable way.*

***QA and testing specialists****: Ensuring a systematic approach to QA on all development stages, since it’s important to launch QA processes at the very beginning of the project. Testing, however, is more closely tied to the product, so it makes sense to have it started after the very first versions of the front end are available.*

*Making sure the web app is fully functional on most of the popular browsers and their different versions, many of the issues they may stumble upon will be connected with user experience and can potentially throw the project back. This possibility should be taken into account during the initial scheduling by the project manager.*

*All-in-all, led by a project manager and assisted by a project architect, the future web development team will consist of UI/UX designers, front-end and back-end developers, and QA engineers. By entrusting each stage of a web app development project to a respective experienced specialist, my team hopefully justifies our expenses and getting a web app that lives up to all of Exeter’s expectations.*

**Delivery schedule**

*There are three phases in which this project will be delivered. Phase 1 is the release of a prototype test app to see how well the students interact with the application itself. Phase 2, again another prototype with more function ability. And lastly Phase 3, with the actual web application and all bugs and function abilities worked out.*

*Phase 1: Prototype released to senior students. Limited features, the reasoning behind this is to get some raw feedback for improvements. The time frame of this trial will be three months.*

*Phase 2: Prototype #two with updated features gained from feedback from the senior students. Trail period of 3 months.*

*Phase 3: Full web application release. After six months of trials and feedback we’re ready for full launch of the application.*

**Other requirements**

*Here we’ll discuss system requirements as well as compatible devices.*

*Supported Platforms:*

*~Windows 7 or later*

*~OS X Yosemite or later*

*~Linux: Ubuntu 14+, Red Hat 7+, CentOS 7+, Fedora 23+\*\**

*~4.20.0 or above for the app*

*Supported Devices:*

*~Desktop computers*

*~Laptops*

*~Cellphones*

*~Tablets*

**Assumptions**

*Some assumptions that’s been made thus far are the usage of mainstream systems such as being reliant on the availability of the Google Maps API. While we don’t want to be completely limited to one source we would also like to offer our own system independently as an option along with various other systems as well.*

**Limitations**

*TIME, TIME, and TIME. We have a three phase deliverance in which two of those phases entails prototypes with a six month time frame before the third phase where we release the final and actual web application as well as mobile application.*

**Risks**

*There are legitimate concerns regarding risks associated with handling and processing of big data. These concerns continue to complicate efforts to develop standardized and scalable approaches to risk management and data access. A coordinated approach is required to ensure the emergence of frameworks for safe and responsible use of big data for the achievement of the 2022-2023 agenda.*