Qbit Club

Project Proposal

Preprint 2022

By Neelanjana Anne (sriannefamily@gmail.com, qcomp.dubai@gmail.com) and Anastasiia Andriievska (aa11@kth.se)

Overview

This project is to build a functional web app that can provide useful features for users. Our mission is to construct a bridge between users and the quantum world. A detailed explanation has been given below to show how Qbit Club proposes to achieve this.

Project Description

Introduction

We plan to create a web app that has a user-centered design. We will have users who are on different levels looking for useful features. We aim to cater to those various needs. We will have college professors, students, companies, and other organizations using the platform.

We wish to provide a space where these groups can access features that do not exist in a quantum society. There is a growing number of people who are joining this buzzing field. We are integrating the quantum community,

which happens to be scattered around. We are creating the next portal which everyone can use and be productive.

Features of the application

Here is a reference link to a sample website we created. Please view the homepage.

1. **Search Engine**
   We plan to build a personalized search engine that can filter out different opportunities. If a user wishes to find internship opportunities in the field, s/he can use our search engine. This search engine can provide details about courses, workshops, hackathons, summer schools, and other exciting deals. A user would not have to spend 3-4 hours just browsing on the web to end up with nothing on their hands.

2. **Profile and Portfolio**
   Users can create their profiles and update CVs or showcase their experience and expertise. It enables organizations and professors to connect with the right candidates. It also allows high school students to safely create a team with other users to work on different projects and competitions.

3. **Forum**
   We also have a forum for users to pose different questions and answer other queries.

4. **Blogposts and Newsletters**
   Users, organizations, and professors can write blogs, comment on other popular posts, and more. We will have a weekly or monthly newsletter with various announcements and information about what's happening in the quantum world globally.
   It will enable the users to stay up-to-date.

Please note that there are several other features that we will be adding once these basic ones start running smoothly.

Methodology

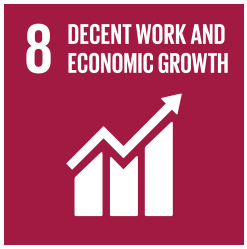
Now, we come to the question of how we create such a web application. I believe we have a blueprint ready for this, but since we are high schoolers and undergrads, we require assistance in doing such a big project. We understand that there will be a need for an expert developer and architect. For the search engine, we believe we will be dealing with advanced web scraping, database storage, and data processing.

We have tried OutSystems – a low code platform – to create a few samples. We request support from your end for this part of the project.

Direct positive impact:

Indirect positive impact:

According to European Commission The SDG Mapper tool **the main SDG** detected is:



We can also assure that profit may be made through a proper business model. We stand to agree with the idea that it helps improve the image of the organization and helps it set a firm footing in the quantum field.

How the project will benefit the Quantum Community and organisations

This project helps users and organizations to rely on one platform instead of different platforms with single features. We are also building a bridge between the huge drift of the accessibility of resources. This platform will provide everyone with the useful features they wish to have for this wonderful community. Organizations can now benefit further as they can access more people and even advertise their products or innovations.