Project Brief

## What is my project?

My project is a website for developers to ask questions related to all aspects of programming and to answer other developers’ questions. Each user’s profile will allow them to customise the type of questions they want to answer and will include an option to receive a weekly email with popular questions. The website will not just be a question and answer site but a community for developers to learn and share expertise. It will also include social options such as direct messaging, points for helpfulness, trophies for various milestones and a profile page for each user. This page will help employers to recognise talent which will encourage developers to contribute to the site. The website will also include a page for most common languages with useful links to official documentation and tutorials. If I have time I might build an Android app and a PC program for it to allow a bigger audience.

## Why is it needed?

I believe that my project is needed because all the major programming question and answer websites have issues, but if the best features were taken from each of them, then the resulting site would become a necessity for developers. Another major reason for this project is the lack of a large community for developers to use. Many developers share the same sense of humour and the same way of thinking. The site will also allow employers to advertise jobs and will only show them to developers who would find them relevant. Developers could set their job status to “looking for job” in order to receive notifications when their perfect job comes up.

## Who will be interested?

First time developers starting their career to experienced developers pushing the boundaries of their field.

## My requirements to complete the project

To develop my project, I will use my laptop (i7 6700Hq, 16GB RAM) as it is powerful and portable as well as my home PCs. The backend will be developed in Java so I will need the JDK (Java Development Kit) as well as the JRE (Java Runtime Environment). I will use Eclipse as my IDE (Integrated Development Environment). To run my project, I will need a high capacity and high performance dedicated server running 24/7 to run both the network backend and the MySQL database. I already have a Microsoft Azure subscription which allows me to have several high performance dedicated servers which I will use to run the site and database from. I will use MySQL for the database which means I need to run Oracle MySQL Manager to both design and run the database.

## User requirements to access / use my project?

Internet connection, web browser and standard PC / laptop

## How am I going to test it?

I am going to be running tests myself to test that the basics are working but I am going to give the website to a class and challenge them to do everything and anything they can to break it as well as test everything they can. This will allow me to test much more than if it was just me. Also, I will use a bot website to put high load on the site to stress test the server to see how it works with high demand.