

Report

Progress Report



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INITIALS: L

DEPARTMENT: COMPUTER SCIENCE

SUBJECT: IDC30DB

**The Introduction**

The geographical location of Soweto Mlab is Diepkloof 319-Iq, Soweto, 1862.The name of employing organization is CodeTribe which is under the Innovation Hub and mLab Southern Africa which is based In Soweto. The position occupied by me is a mobile application Internship. The duration of my work with CodeTribe is six months.

**The Background**

The nature of the work performed by my department includes mobile application which follows agile methodology. In agile methodology we use scrum, Scrum is an agile way to manage a project, usually software development. Scrum methodology advocates for a planning meeting at the start of the sprint, where team members figure out how many items they can commit to, and then create a sprint backlog – a list of the tasks to perform during the sprint.

The department objectives is that they to increase the skills of talented young ICT enthusiasts by providing them a learning environment where they build real world products as part of the programme. CodeTribe is an important intervention, directed at developing entrepreneurial code developers as well as meeting industry’s needs for software.

The nature of my work area includes building web application using different programming languages which includes HTML, CSS and Angular.js, building mobile applications using ionic framework as well as planning and designing the projects. It also includes presentation and doing research about the new programming languages that we were learning.

My duties in the work place includes designing the UI of the app and also programming the backend of the apps. Also my duties where for being a group leader where I was assigning the group members their task and also improvising when they need help with their tasks. I am also the backend developer in my group which I use typescript to develop.

While developing the mobile apps we were using SQLite as a database and firebase as the real-time database. SQLite is a self-contained, high-reliability, embedded, full-featured, public-domain, SQL database engine used a database and The Firebase Real-time Database is a cloud-hosted database.

**Personal Role at Workplace**

Technical details of my work includes building the web applications using HTML, CSS and anguler.js. The projects that I have built include making my own budget and creating your own CV using html and CSS.I also worked in Brainstorm ideas on creating a mobile app that is different and unique in groups and presenting the ideas at work.

We also discussed the Factors that we had to consider, is the functionality, target market for the app, budget and tools and technologies that will be used to build the mobile app. At work I also created website using angular.js which was a hotel booking website and also created a website for the Ionic Tutorial for a beginner using angular.js.

The reason why I was using angular.js to build my website is because AngularJS lets you extend HTML vocabulary for your application. The resulting environment is extraordinarily expressive, readable, and quick to develop. It is fully extensible and works well with other libraries.

As months passed by at work we started creating mobile apps using Ionic Framework. Ionic Framework is an open source SDK that enables developers to build performant, high-quality mobile apps using familiar web technologies (HTML, CSS, and JavaScript).The first app that I created in ionic was the employee crud app using Ionic2, html and CSS, I used an array to store the information of the employee. An array is a special variable, which can hold more than one value at a time and it stores the values in a list.

The other project that I have created at work is the rugby score board which was calculating the score for a particular teams, I was involved in planning, designing the UI and also building the app using Ionic framework and typescript. Planning included drawing the sketches and also checking the UX of the app, Building included coding the front end and also the backend of the app. The other app that I created is the quiz app using HTML, CSS and Typescript.

The other projects that I was involved in include UI/UX challenge where an individual is required to make a UI using HTML and CSS .The other task included making a weather app using an API also making a calendar app using Ionic framework. I also made a Booking app for a hotel using firebase as a database to store the data in the app. Other responsibilities included creating a DJ app that enables users to browse through a pulse list and request to book a DJ that they will like to have in their events.

The technologies that I used is HTML, CSS and Ionic Framework for the frontend and the backend I used typescript and a bit of JavaScript, for the database I used real-time firebase. The other duties include being a group leader which includes allocating tasks to group members.

How you have applied your knowledge is that before attempting to do a given task at hand, I first do my research, check which technologies I would use and use logic where is needed ,what will I need to finish the task and then do the task that has been assigned to me. The skills that I have applied on my duties is communication, in a work place you need good communication skills in order to talk to other people and to be able to do the duties properly that I was given by my supervisor .

I had to listen to other people when they talk to me and ask questions where I don’t understand because it’s important to listen to other people so that I can avoid miscommunication. Other skills include critical thinking, I needed to think smart and hard when I was given a task to do and understand the logical connections between ideas.

The other skills that I had to use was the ability to work independently and the ability to work as part of a team. I had to depend on myself when I was given a task to do and ask my supervisor if I had any enquiries about the task and for working in a team I had to work with other people so I had to learn to communicate at all times so that we can be able to do the task that where given to us.

The ability to prioritise is the most important skill that I had to use at work because I had to prioritize the task that were given to me and I had to meet the deadline of the task given to me. Time management is one of the skills that I had to manage my time properly like coming to work on time and reporting to my supervisor when I am running late for work, I had to go to lunch on time and came back on time and lastly I had to attend meetings on time and not be late for meetings.

Another skill that I used is flexibility, I had to be flexible to any situation that I came across at work and adapt to the situation. The knowledge I have I had to help other team mates if they need help with their task, show them how a particular function works and help them with the logic to achieve a certain goal in their task.

The specific duties delegated to me were being a group Leader so the tasks included guiding the group members to complete the tasks that were given to them so that they can complete the project, implementing a timeline so that the whole group can meet a deadline given to the group. Ensuring that the group meet the goals that we have set as a team, helping the group members with their task if they are facing any difficulty with their task and communication is the key for the group to function well.

The other duties included being a backend developer so the task included using typescript to develop the functionality of the mobile apps that I was building, also adding the logic to the app. I had to plan before doing any task that was given to me and do the research properly so that I would know what is expect of me.

I worked closely with the frontend developers, scrum master and my supervisor and it is important that if I was given a task and I don’t understand it, I have to ask so that I can get the clarity of the task at hand.

The duties involved the planning and drawing of sketches before I do a task I had to plan the UI of the app how is going to look like and also check the UX of the app, find out whether the user experience will be good or bad for the user. So I had to also check which database that I am going to use for the app.

How you worked with the other team members is that we were helping one another to accomplish the task that was given to us. So communication was the key aspect that I used to work efficiently with other group members and we had to discuss the objectives of the task so that we can have one vision and mission as the team.

Also listen played a huge role in a team because I had to listen to other group members so that we can avoid miscommunication. Discussing challenges was one of the aspect that we did as a group so that we can be able to identify team members who are struggling with their tasks so that we can be able to help one another.

Working in a group is a challenge that is why it is important to have the same vision and respect one another and help each other were we can. Also working in a group requires discipline because you have to be disciplined and have the ability to prioritise because other people are depending on you to produce some good results.

Working in a group has taught me that you need to listen to your team members, other people’s views matters as your view also matters. Communicate with your team members at all times. When I have a problem with my team mate its best to talk to the person and resolve the issues that bothers me rather than complain to the supervisor without attempting to solve the problem at hand.

**Conclusion**

The work place is very different from being in a lecturer room so it’s important to learn how to communicate with other people and also listen to other people. Also the ability to prioritise is very important in a work place and also time management and Have discipline as an individual.