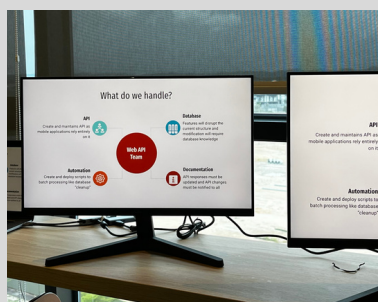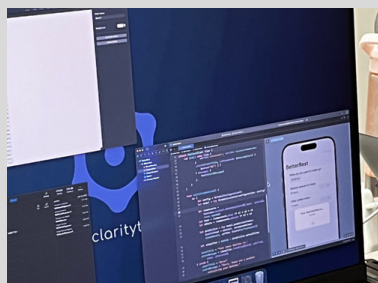# Industrial Visit to Clarity Techwork

TacTic Tech

1. **Nur Syakirah Adilah** binti Azri (A23CS0159)
2. **Lim En Dhong** (A23CS0239)
3. **Ain Najiha** binti Junaidi (A23CS0038)
4. **Fam Qai Zen** (A23CS0223)
5. **Tan Jian Ming** (A23CS0275)
6. **Yousif Salah** Yousif Almatri (A23CS0028)
7. **Mah Wilson** (A23CS0243)

Photos from the visit...

Summary of the visit

On 18 Jan, we had an industrial visit to the Johor branch office of Clarity Techworks. All 20 staff of Clarity Techworks facilitated the visit and showed us around the office. The staff set up various stations to showcase what their respective roles do and the tools they use to accomplish them.

First of all, we had a sit-down discussion with the CTO, Mr. Yee explained about the company and he also answered some questions by our group members regarding topics about their products, upskilling and also some career advice. Then, we visited each station set up by the staff one-by-one. The stations represent the various technical roles and teams in the company such as the Web Development, API team, Android Development, iOS Development, Quality Assurance and UI/UX Design.

Since the teams that this branch office houses are primarily technical teams which their jobs are inherently stressful, the company in their foresight has prepared a recreation room equipped with various entertainment and relaxation facilities such as a sofa, a smart TV, gaming console, board games and so forth for their team to blow off some steam and destress after a long day of work or a stressful period. This room also functions as a multipurpose room for team-building activity for "Play Day" which is a designated day in each month for the employees to play by themselves or with their fellow colleagues. They guided us to this room to experience what this room and its facilities have to offer.

Lastly, we were sent off by all 20 members of the office including the CTO and we took some group photos in the lobby before bidding our goodbyes.

The technologies and issues discussed in the visit

Web Application
First and foremost, the Web Application team showcased us their frontend, styling and backend development by using MySQL, CSS and JavaScript. They also need to use Vue js in JavaScript to find the framework to build the user interfaces.

Web API
The Web API team demonstrated us how they create and maintain API mobile applications and handle the databases using Laravel and do the testing and documentation using Postman. They also use SourceTree/Git to control and bug tracking and Sequel Ace/MySQL to manage the database.

Android Developer
The Android developer team was assigned in developing mobile applications specially for Android. They used Android Studio, Figma, BugFender and Postman to develop, design and resolve bugs. Moreover, they used Google Play Console to publish the app to Google Play Store. They issued when compiling & running the codes, they need to improve the codes as the codes may be deprecated. Native application is used rather than cross application because there are certain libraries which support Android system only.

IOS Developer
Subsequently, we moved to the IOS developer which in charge of developing mobile applications for IOS. Some technologies they used such as Swift & Objective-C. They also used Swift UI and UIkit for frameworking. They figured that to let the app read data is to search for CSV files & upload them to Machine Learning.

Quality Assurance (QA) Testing Analysts
Following the development phase, the web and application tests are conducted by QA analysts. The Selenium used by automating web applications for testing purposes on any browsers including Google Chrome and Safari. For mobile testing, they used Appium to test on both IOS and Android. This procedure is to verify that the product meets high standards of quality and user satisfaction.

UI/UX Design
Lastly, the UI/UX Design team shows us their job scope by doing product research. The R&D process is to ensure and improve their products before wireframing and HIFI prototyping. Other than that, they also face some back and forth work when the handoff process happen between the developer team. They also contribute the marketing process like designing poster and handling social media.

The reflection from the visit

The industry visit highlighted the overview of Clarity Techworks especially in the sector of managing and developing web and applications for their product. Witnessing all technologies and tools they applied to enhance the efficiency and quality of their products also served as inspiration to us. In addition, we observed their relationship between employees and the importance of each role of the department in sustaining the productivity of the company.

We believe that this visit has encouraged us to pursue IT in the future by helping us to understand the job scope and shows us some experience as a developer and analysts.