SECTION A

DESCRIPTION OF SCENARIO

Client: Student; **Suyash Kothari**; Senior Delegate: a member of the student leadership team

Advisor: **Mun Yee Chong**; An IT teacher in my school. She has an **expertise in Java** (the language I am using) and is well versed with the **project requirements** and **database management**.

Scenario: As a Senior Delegate- the head of the student leadership team- Suyash is responsible for ensuring student welfare and voice is maintained in the year group. He leads a group of 26 student representatives who discuss the student feedback in weekly meetings. However, this can be "an **inefficient** process which can be influenced by **human bias**" (Appendix A) as delegates are prone to **human error** like forgetting to report student suggestions. Moreover, many **students don't like to communicate with the delegates** directly. An ideal solution would allow students to give **direct feedback** on a **range of topics**, which would be **recorded in a database** for future reference and discussion in the weekly delegate meetings. To maximize use, the solution should be easily accessible to the students through a **mobile application**. The current system is too slow; hence, using a mobile survey collecting application will ensure transparency and efficiency.

Words: 205

RATIONALE OF SOLUTION

As per my advisor (Appendix A), I'm using **Android Studio IDE v3.0.1** to make a mobile application with a **user-friendly interface** using **XML files**. As I am storing data on an **online database**, I will need to create **connection APIs** using **PHP** and then use **JSON** and the **Retrofit class** in Android Studio to connect my app to the database. I will be using "**phpMyAdmin**" to manage my database and APIs, which will be hosted on "000webhost.com". As my application has many users, a local database using SQLite would not allow for features such as compiling reports from multiple users who all use different devices.

This is an effective solution because most of the students use phones, allowing my user to get large student feedback. Students will upload feedback directly on the server to prevent "**human bias**". The feedback will then be presented directly in **excel files** to **"ensure transparency**". Existing solutions such as Google forms can be very inefficient as they must be distributed via email or link. This application gives students an easy method of directly sending feedback on a range of student life issues, making it **faster** and **easier** than logging on to Google forms through a web browser.

Words: 202

SUCCESS CRITERIA

1. A feature that allows **users** to **register** in the app to ensure that their profiles are kept separate from others'.
2. A feature which allows users to **log** in the app to ensure their feedback is unique to their username and details.
3. A clear and **structured database system** that efficiently stores all the collected data
4. A feature that allows students to **add records** to the database when they send feedback
5. A feature which allows users to **view** their **previous feedback entries**
6. Ensure a **user-friendly user interface6** is made, custom fit to my client's needs
7. A feature which allows my client to **generate pie charts** to view the number of question responses.
8. A feature which **sends** my **users** an **email** with their respective **log in details** for safe keeping.
9. A feature that **exports** the **database** to **Excel sheets** for my client to use in the weekly Student Delegate meetings.