Criterion A: Planning

Defining the problem

My client, Mr XX. He is a student that goes to XX high and is "having troubles keeping track of "there "classes on" their "7-day timetable." He is also having trouble keeping all of there assignments in one location.

At the current moment Mr XX is storing there timetable in his photos but due to his phone camera being poor it's hard to see his classes. He also keeps his current assignments that he has for his classes written down on some notes however this frequently gets lost as well as doesn't notify him on when is next assignment is due so frequently forgets his assignments.

I volunteered to help Mr XX by making a timetable and assignment tracking app. This app will allow him to see all of the times of his classes as well as all of his assignments and notifying him on the assignments due in the next day. My CS teacher Miss XX agreed to be my advisor for this project.

Success criteria

Able to Create classes that allow the client to store the name of class, what day, class time and teacher email.
Application able to run on android phones.
Able to View all the classes he has on a given timetable date.
Able to View all classes that are in the system
Able to Delete classes the client is no longer taking.
Able to Create Assignments that allow the client to store the name of the assignment, what time and date it is due in, and the description of the assignment.
Able to View all assignments that the client currently has.
Notify the user of all assignments due in the next day.
Able to Delete completed assignments.

Rationale for proposed solution

After a conversation with my advisor Miss XX. We both agreed that using OOP will be the best solution for the given problem. Android studio will also be used as this is the best way of programming android applications as to fulfil the success criteria above. SQLite will be used as the database as this is easy to learn, works well on android devises, as well as be sufficient for the given situation. Java was chosen as the language for this system as java is well supported in android studios as well as android devises in general, another reason is that this is the language that I have the most experience in and so would not require me having to learn a new language while constructing this application.