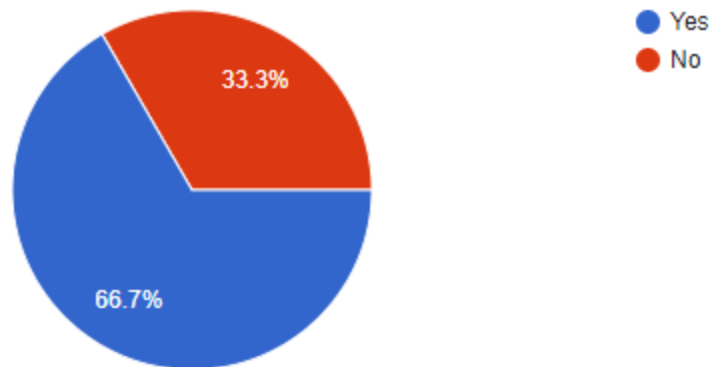# EC9540

HUMAN COMPUTER INTERACTION

LAB 2

GROUP MEMBERS:
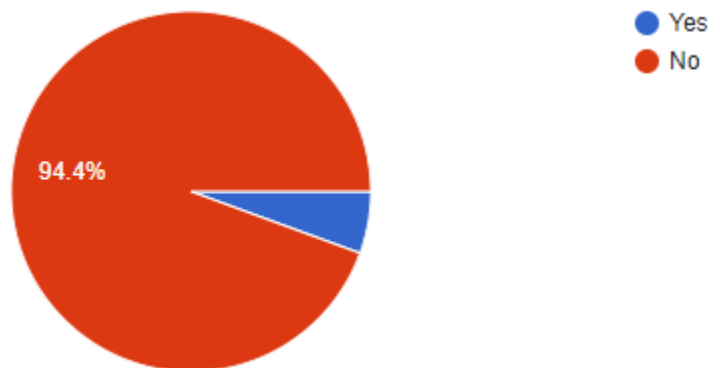
PIYASAMARA G.L.D.S (2018/E/093)

SACHINTHA D.C. (2018/E/104)
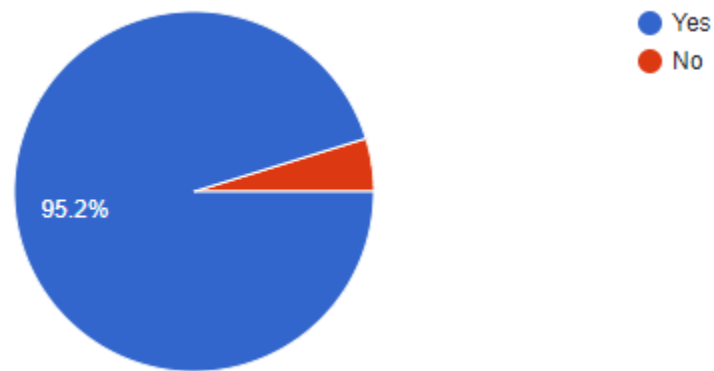
Summary of the questionnaire

According to the responses to the questionnaire, most of them said that they have a method to get the progress of a student. The below graph shows the percentage of the answers and they have said requesting a progress report from the AR is the current existing method.

The majority of them (more than 90%) are frustrated with the current method. It is shown in the below graph which is the answer to the question "Is it easy to use the current method?". The reason they mentioned is that it is a time-consuming process and even if they received the progress report, they have to calculate their GPA manually.
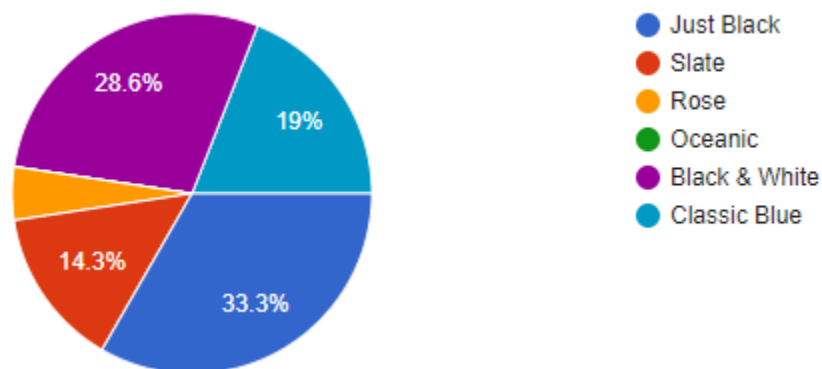

The below graph shows that more than 95% need a new method to get in touch with their academic progress.
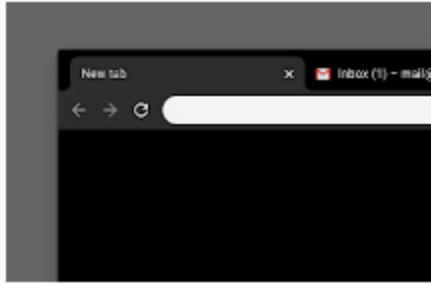
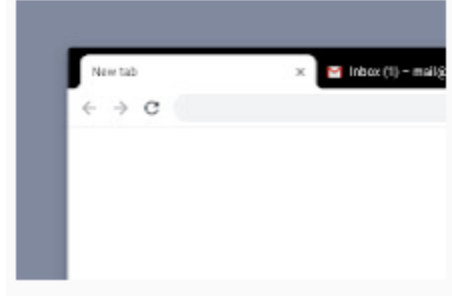According to the answers to the questionnaire, the target users are expecting the following features.

- GPA Calculator
- Results viewer by semester wise
- Filtering results department wise
- Monitoring student attendance data

Under the user interface section, most of them prefer English as the language of the application. There are two themes that have more votes than other themes.
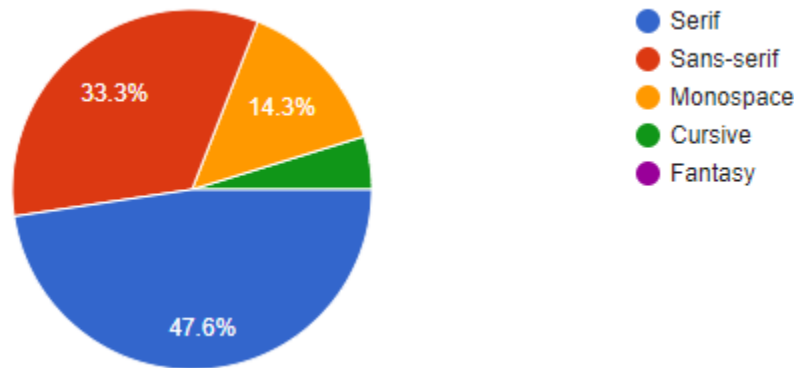
Just Black theme

Black & White theme

Therefore we are decided to make those two themes and give a feature to the users to swap between those two themes according to their choice.

Users picked so many different colors according to their choices. So it's very difficult to get specific colors for the interface. Therefore we decided to choose common colors for the UI design because those will not harm any users.

Finally, most of the users preferred serif fonts for the application. The below graph confirms it.

● Serif
● Sans-serif
● Monospace
● Cursive
● Fantasy

The core task from the above study

Before developing the application, first, we need to gather requirements from the target users. **The core task of the above study was to gather requirements.**

This will help us to;

- Improve the chances that users will get what they wanted.

- Decrease the chances of a failed project.
- Reduce the overall cost of the project by catching requirements problems before development.

Main Goal: Giving a clear view of a student's progress

Sub Tasks:

- Making a GPA calculator
- Making a Results viewer by semester wise
- Filtering results department wise
- Monitoring student attendance data

Hierarchical plan

Giving a clear view of a student's progress

User interface design
- Selecting appropriate theme
- Selecting appropriate colors
- Selecting appropriate fonts
- Selecting appropriate languages

Functional requirements

Making a GPA calculator
- Mapping GPA with semester results
- Selecting number of credits according to courses
- Getting results from previous semesters

Making a results viewer by semester wise
- Getting results from previous semesters
- Sorting results according to semester wise

Filtering results department wise
- Getting information on courses offered by departments
- Sorting results according to department wise

Monitoring student attendance data
- Getting attendance data from relevant courses
- Sorting attendance according to courses