Project: Students information System.

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Assumptions and Implementation.

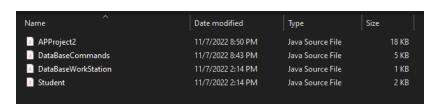
We took an approach that focused on code maintainability and making the application easy to use with clear and understandable error messages in the case of an input error.

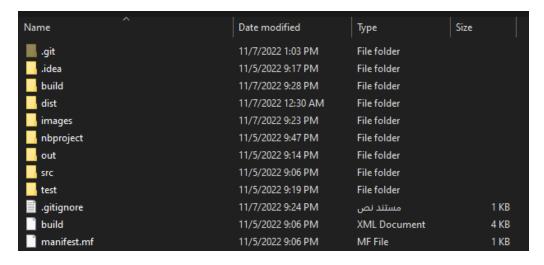
Implementation

We made four classes to make the code readable and maintainable, The first class contains JavaFX code, The second class has Data preprocessing before it gets sent to the Database, The third class, has the SQL commands, this class will receive the data formatted, to parse it immediately to the Database, the forth class is the Student object class.

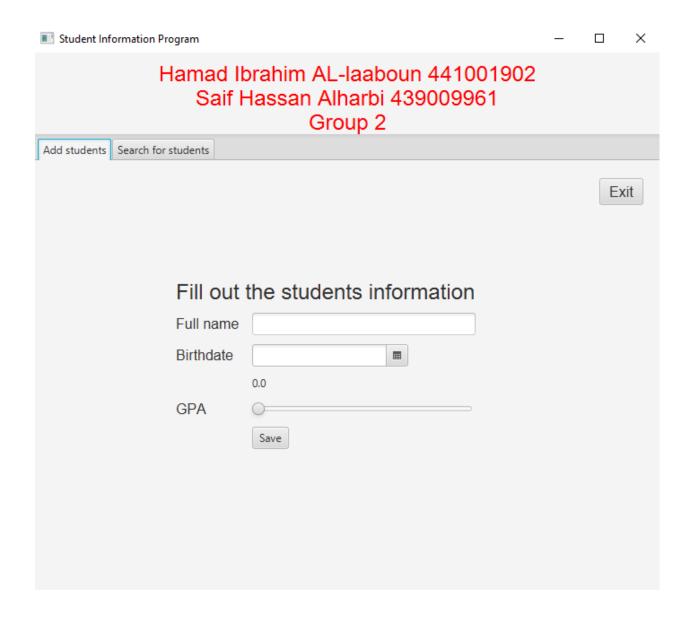
We used MySQL to create the database and a new user with limited privileges, since we only want the application to insert and select data from the database. therefore we created one called hamad_saif and gave it some privileges to insert and select from the database.

Directory:

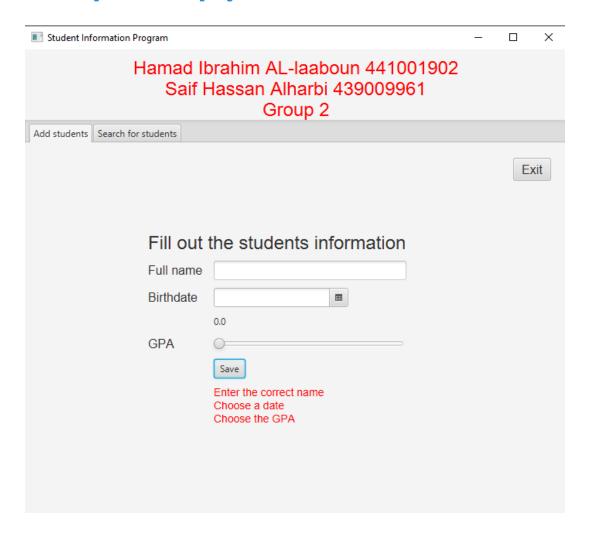




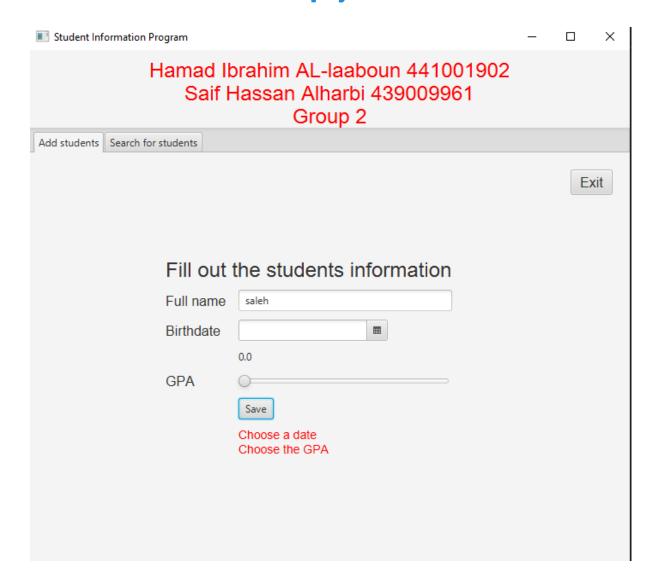
Add student tab:



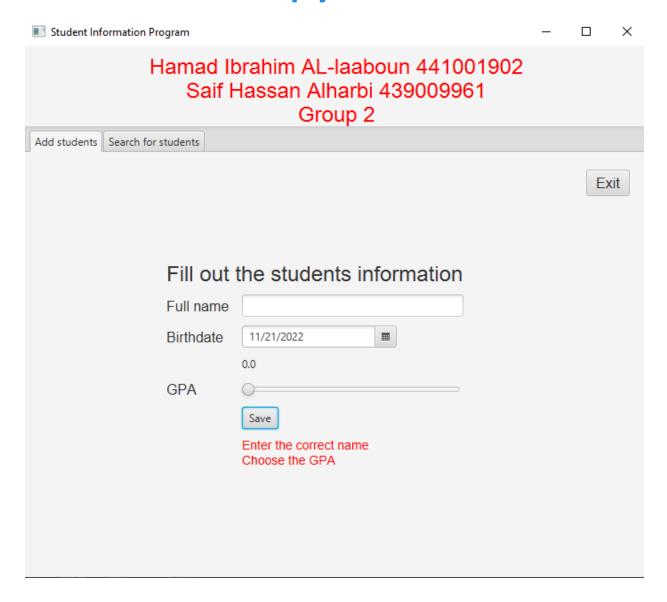
All inputs empty:



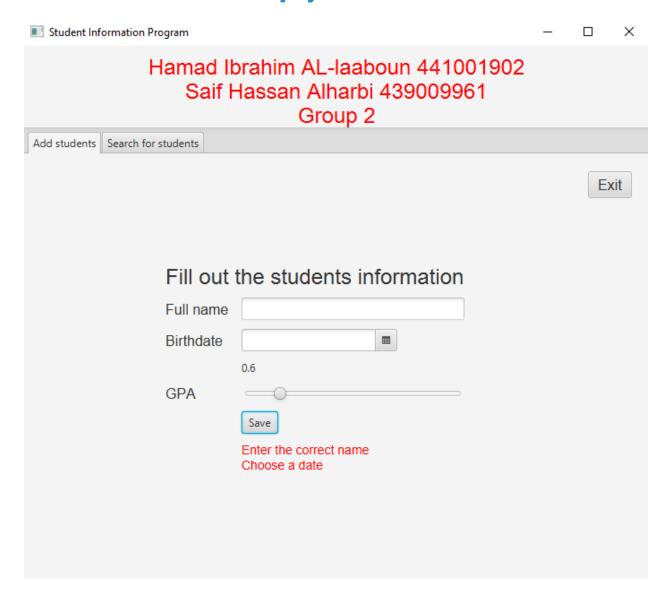
Name correct rest empty:



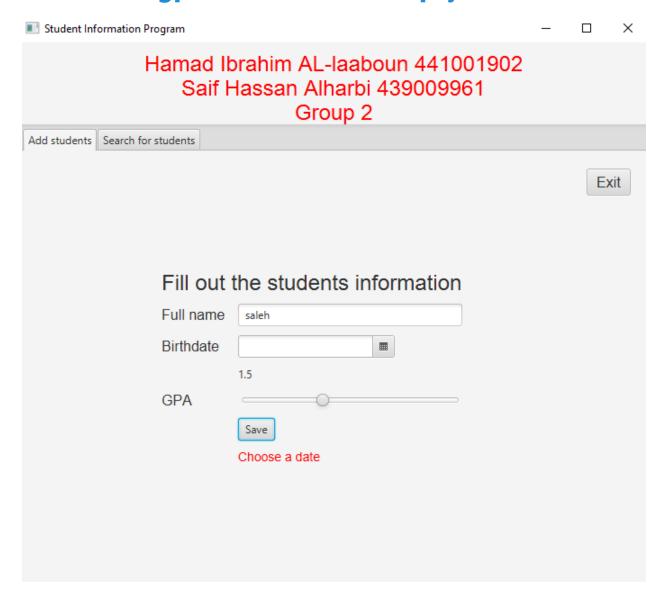
Date correct rest empty:



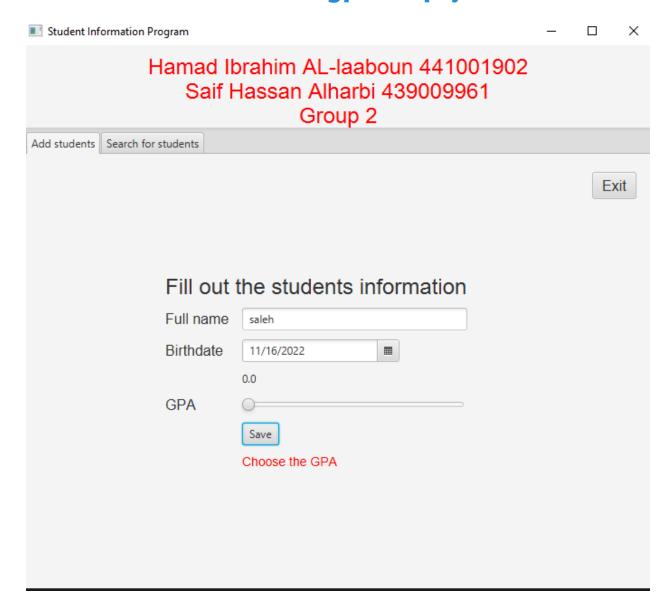
GPA correct rest empty:



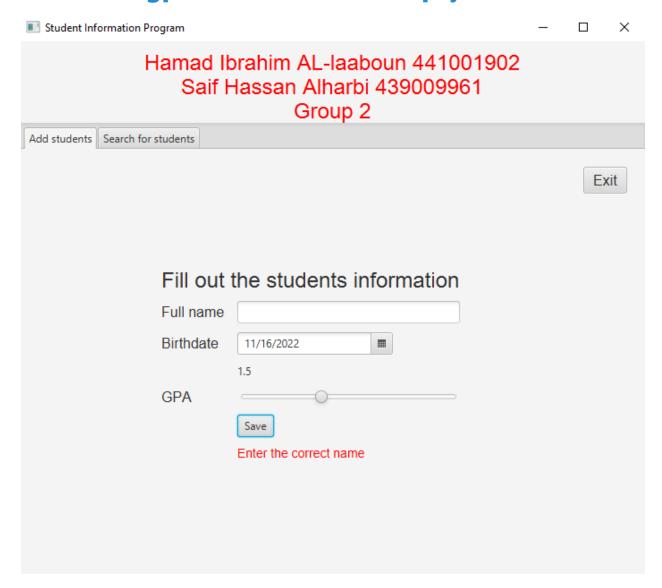
name and gpa correct date empty:



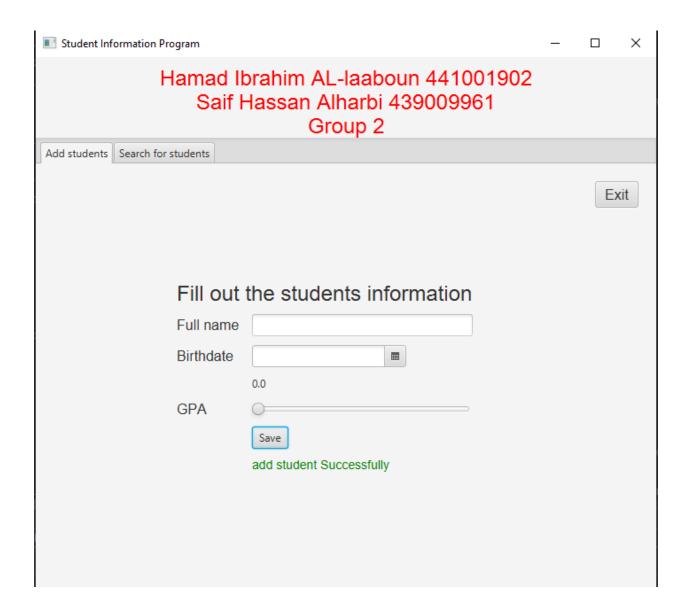
name and date correct gpa empty:



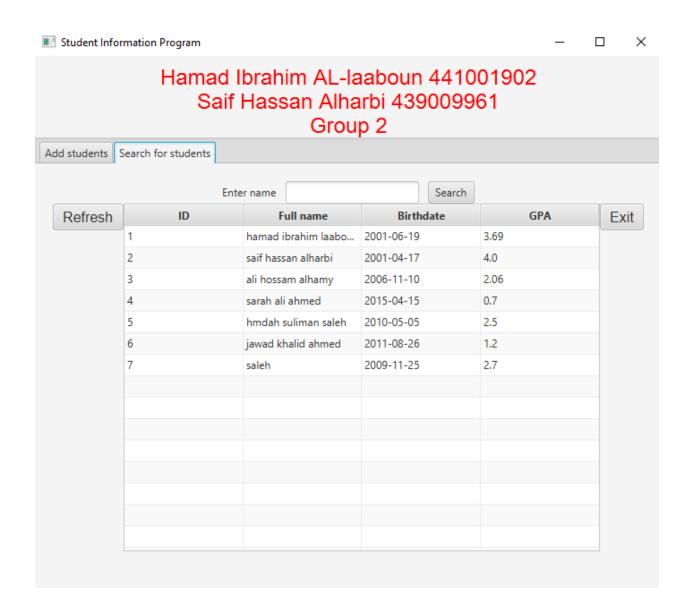
Date and gpa correct name empty:



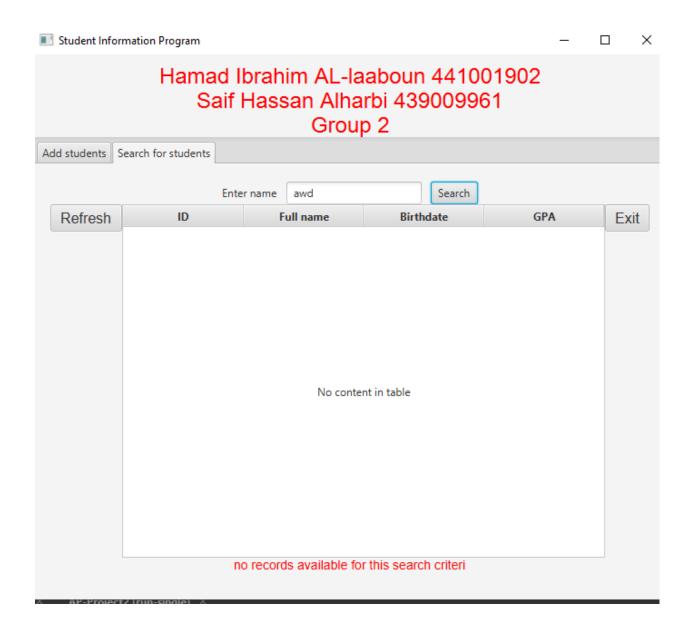
Successful add:



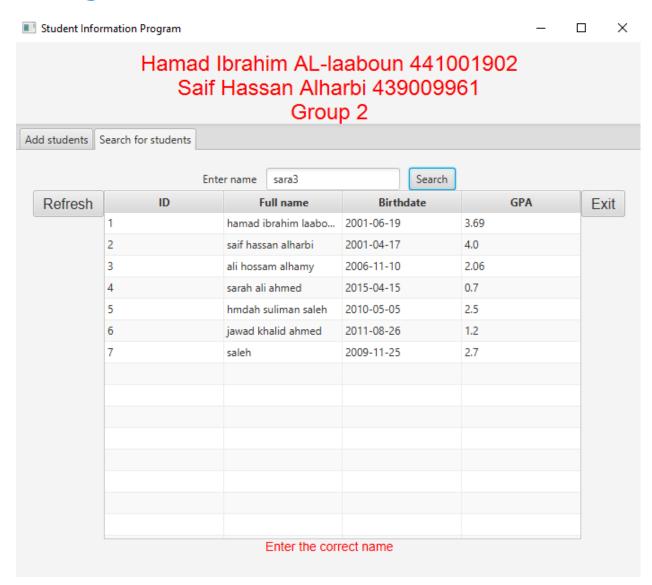
Search student tab:



Search with no results:



Wrong search name:



On exit, Disc:

```
connection has been successful connection has been closed
BUILD SUCCESSFUL (total time: 2 minutes 59 seconds)
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