**Graphical user interface, text

Description automatically generated**

**King Saud University**

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**Tailgating and Piggybacking Detection Using Artificial Intelligence**

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**To be able to use ALRT and not face any difficulties a couple of steps need to be taken:**

1. ***Download Python***
2. ***Download PyCharm***
3. ***Download MySQL Workbench***
4. ***Download “ALRT-Complete” from Github***

* **To download Python: https://www.python.org/downloads/**
* **To download PyCharm Community: https://www.jetbrains.com/pycharm/**
* **To download MySQL Workbench: https://dev.mysql.com/downloads/workbench/**
* **To download “ALRT-Complete”: https://github.com/ALRTsys/ALRT**

**In GitHub, “ALRT-Complete” is the full project that contains the detection code including the interface while “Main\_Code” is just the detection code without the interface. In “Main\_Code” the alarming messages will only be shown in the terminal and no alarm will go off, so to see the full project with its full potential it’s better to work on “ALRT-Complete”.**

**“ALRT-Complete” requires using a database, so with MySQL Workbench create a new MySQL Connection, keep the name as it is, which is ‘root’ and the for the password you can choose your own password. Then create a database named “log\_in” and a table named “cctv\_operator”.**

**The table contains:**

1. **Id (Binary)**
2. **Username (VARCHAR)**
3. **Password (VARCHAR)**

**Right-click on “cctv\_operator”, copy to clipboard - insert statement**

**then write this command:**

INSERT INTO `log\_in`.`cctv\_operator`

(`ID`,

`Username`,

`Password`)

VALUES

(0, 'CCTVop', sha1('Ant17a1l8at1n8#')),

(1, 'Admin', sha1('AdminME123#'));

**Lastly, don’t forget to add your MySQL Workbench password in the 10th line of both the “LoginForCCTVop.py” and ”LoginForAdmin.py” in the “ALRT-Complete” file.**

**When done with the database, open “ALRT-Complete” using PyCharm before running it, you need to make sure that you installed all the needed packages by going to file -> settings -> project: ALRT -> Python interpreter -> + than choose the needed packages:**

1. **flet**
2. **opencv-python**
3. **time**
4. **base64**
5. **threading**
6. **mysql-connector-python**

**For the mysql-connector-python you need to watch this short video to make sure the connector does work: https://www.youtube.com/watch?v=MhaH7o3lf4E (starts from 4:30 and ends at 12:52).**

**After installing all the required packages using the terminal in PyCharm write this command and then press return:**

**Python main.py**

**The interface should show up and just like that you are good to go ☺.**