**Idea**

Smart Bag

It is a bag that is integrated with IOT system. It will have sensors to collect data, database to store the data and app to visualize and trace the bag.

A finger print will be used to unlock the bag; it will also have a LIGHT sensor to check if the bag is closed. When its closed, but no finger was placed it will send a notification to the user. It will also have a GPS sensor to trace the location.

The app will display the location of the app and the state(open: closed) . it will read the data from the database and interpret.

**Tools or components**

1. MySQL database
2. Note pad ++
3. C, SQL, Java
4. ESP
5. Finger print sensor
6. LDR sensor
7. Relays
8. Nokia LCDs
9. Soldering station
10. Pipes and cables
11. Electronic locker
12. Battery
13. LED
14. Android Studio