

**Mini-Project Synopsis**  
**Advanced Programming Lab (ICT 3166)**

1. **Project Title:** DB2X

2. **Team Members:**

Sl#	Full Name	Reg#	Roll#	Type of Project (research, Gaming, Social and Other)
1	Soham Sonaiya	200953172	45	<b>Customer Solution &amp; Customer Product/Service</b>
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3. **Abstract**

We are creating an Python Application that will back up all the modified Database to local Desktop automatically at certain time. This tool will use excel files to locally store the server details for each database.

4. **Project Details:**

*We need a database Manager(dbsqlite3), the GUI Library for Python (tkiner, pysimple) and file system and regex.*

5. **Expected Result:**

As a expected result, We are marking down the changes of the data in databases and updating the data and time of change to the excel sheet at the same time.

6. **Python programming Concepts used:**

- python data structures: This is where the input will be stored and passed to the database
- functions: to modularize approach to make the code shorted for any functions that will be used again and again by the user.

- modules: We are taking help of external libraries like tkinter , sqlite and regex to shorten our work
- classes: We will use OOP approach like encapsulation, constructor and destructor.
- database connectivity: We will be using sqlite to connect the database with Python.
- file systems: File System will be used to connect the output of file with excel sheet.
- regex: whenever we retrieve any information from the database, filtering out of relevant knowledge will be done through regex.
- exception handling: to handle any traceback errors or any user created interrupts because of invalid inputs, etc.