

Productivity App – Project Report

1. General Information

- **Project Title:** Productivity App
 - **Student Name:** Asma Merzkani
 - **University:** University of Tahri Mohammed – Béchar (U.T.M.B)
 - **Academic Year:** 2024–2025
 - **Programming Language:** Python
 - **Database System:** SQLite
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2. Introduction

This project presents the development of a simple task management application called **Productivity App**, implemented using the Python programming language and the SQLite database system. The application is designed to help users organize and manage their daily tasks efficiently through a command-line interface.

The main purpose of this project is to apply fundamental programming concepts, including object-oriented programming and database management, in a practical and structured manner.

3. Project Objectives

The main objectives of this project are:

- To understand and apply the use of SQLite databases with Python.
 - To implement object-oriented programming (OOP) concepts.
 - To organize a software project into multiple modules for clarity and maintainability.
 - To develop a simple and functional task management application.
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4. Tools and Technologies

The following tools and technologies were used in the development of this project:

- Python programming language

- SQLite3 database
 - Command Line Interface (CLI)
 - GitHub for project version control and management
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5. Project Structure

The project is organized according to the following structure:

```
Productivity-App/  
├── main.py  
├── database.py  
├── user.py  
├── task.py  
├── README.md  
└── project.pdf
```

6. Application Workflow

1. The application is launched by executing the `main.py` file.
 2. The user is prompted to either register a new account or log in.
 3. After successful authentication, the user can:
 - Add new tasks
 - View existing tasks
 - Delete tasks
 4. The user may log out or exit the application at any time.
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7. Conclusion

In conclusion, the Productivity App is a simple yet effective task management application that demonstrates the practical use of Python, SQLite, and object-oriented programming principles. The project is well structured and fulfills its intended objectives. Future improvements may include adding a graphical user interface or additional features.

End of Project Report