

Business Management System Report

This application was developed to meet the business requirements specified by the client. The app is divided into three main sections: **Signup, Login, and Dashboard**, all of which are controlled through a central **Main Controller**.

The app incorporates various SQL features, including:

- **Views** to display specific data subsets.
- **User-defined functions** for custom business logic.
- **Triggers** to enforce business rules like updating stock levels upon order placement.
- Full support for **CRUD** operations (Create, Read, Update, Delete) across multiple tables, ensuring seamless data management.

Additionally, the application integrates external libraries:

- **bcrypt**: Utilized for secure password hashing and validation.
- **Pillow**: Used for adding images to product entries in the database, enriching the product catalog.

An **ER Diagram** has been provided to illustrate the database structure, which has been normalized to **Third Normal Form (3NF)** for efficiency and integrity.

Although the application fully satisfies the client's current requirements, there are plans for future updates. The client has requested additional features such as:

- **Online payment integration**
- **Delivery status tracking**

Despite these pending enhancements, the application has undergone thorough testing, addressing all known minor bugs. Every functionality has been tested to ensure smooth operation in line with the business requirements.