Course: “Project: Software Engineering”

Design and development of a web application

Food Delivery Platform. Artifacts

Course of study: M.Sc. Computer Science

Tutor: Holger Klus

Author: Doniyor Rufatov

Matriculation: 9215551

October 2024

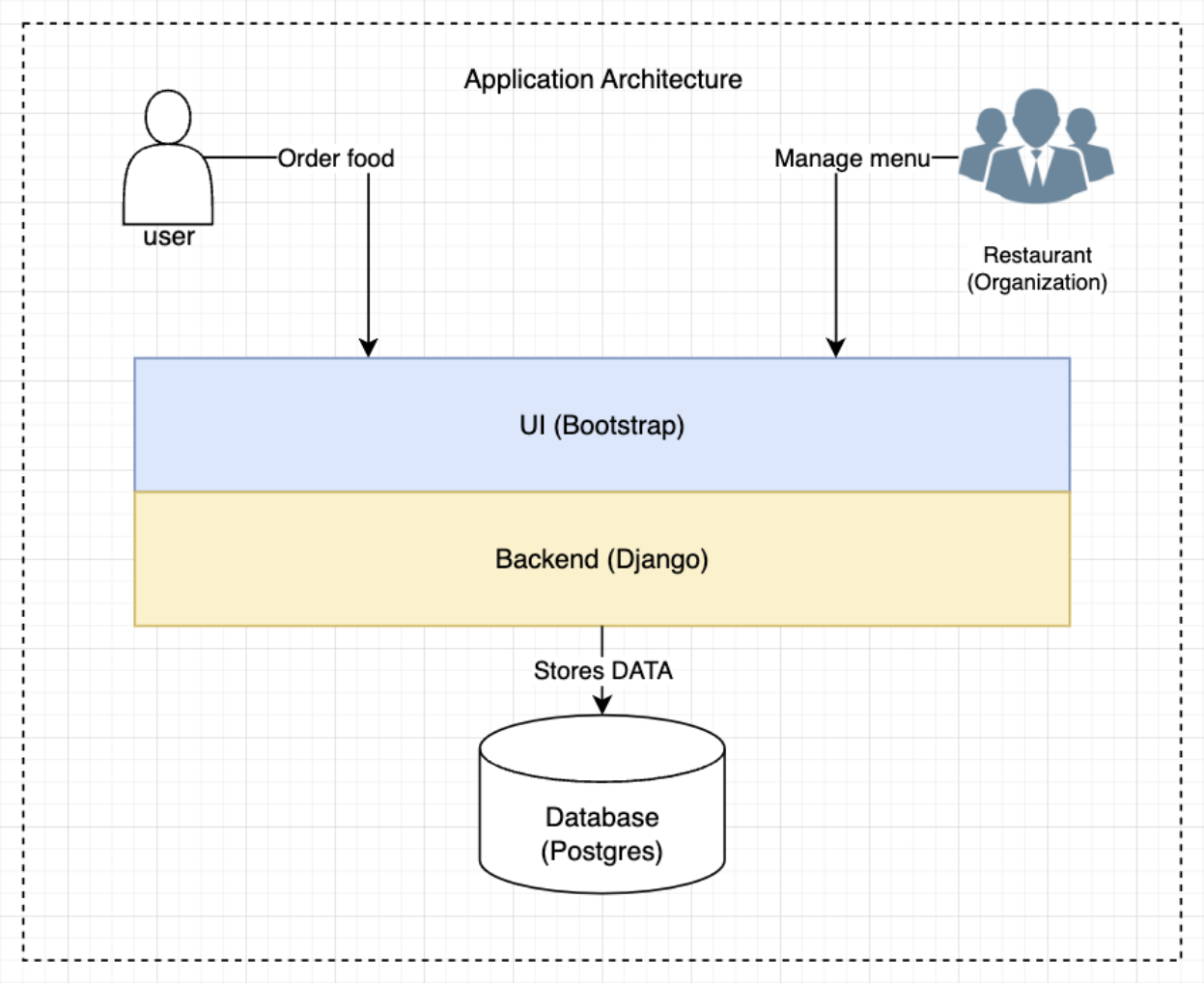

Figure1. Application Architecture

The Application Architecture Diagram provides a high-level overview of the structure of the Online Food Delivery Platform. The architecture is divided into three primary layers:

1. Presentation Layer (Frontend | UI):
    a. **Bootstrap**: This framework is used for creating a responsive and mobile-first user interface. Ensures that users have a seamless and consistent experience across different devices.
2. Business Logic Layer (Backend):
    a. **Django**: A high-level Python web framework that handles the core functionalities of the platform. Facilitates rapid development and follows the DRY (Don't Repeat Yourself) principle, making the platform efficient and scalable.
3. Data Layer:
    a. **PostgreSQL**: An advanced, open-source relational database system that stores data. Provides a reliable and robust database solution capable of handling complex queries and large volumes of data.

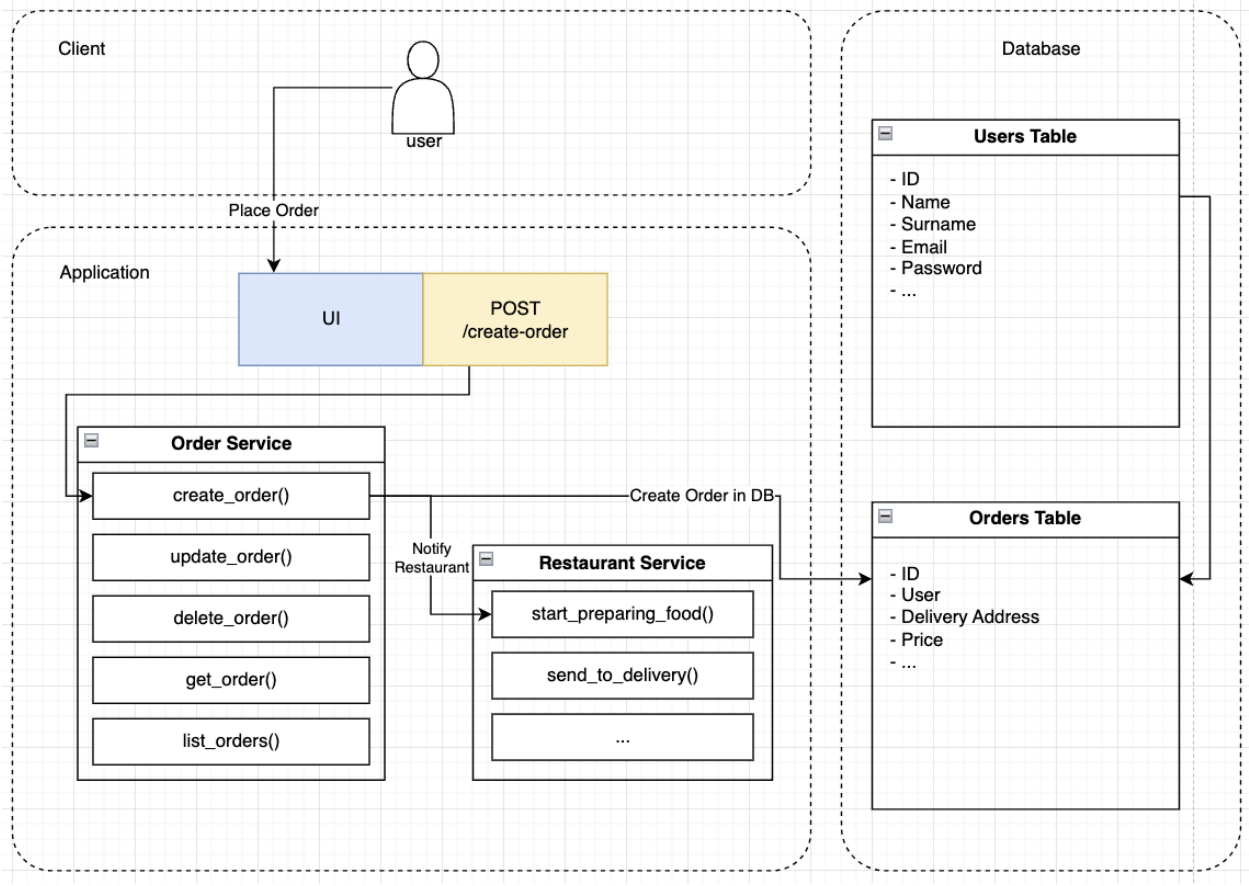

Figure 2. Order Placement Process

Requirement Type	Description
Functional Requirement	User Registration and Authentication
Functional Requirement	Restaurant Search and Filtering
Functional Requirement	Food Menu Display
Functional Requirement	Order Placement and Status Tracking
Functional Requirement	Restaurant Management
Functional Requirement	Customer Support
Functional Requirement	Feedback
Non-Functional Requirement	Security
Non-Functional Requirement	Performance
Non-Functional Requirement	Scalability
Non-Functional Requirement	Usability
Non-Functional Requirement	Reliability

Table 1. Requirements Table