# **Darkstore API**

Software Requirements Specification

# **Contents**

| ntroduction                         | 3 |
|-------------------------------------|---|
| Purpose                             | 3 |
| System restrictions                 |   |
| Intended audience and project scope |   |
| Potential improvements              |   |
| Non-Functional Requirements         |   |
| References                          |   |
| Class diagram                       | 4 |

#### Introduction

#### Purpose

The purpose of this project is to create a REST API service that manages couriers, orders, and their distribution for a darkstore. The service aims to optimize the courier workflow, manage orders, and streamline the allocation process, ensuring smooth operations and timely deliveries within the darkstore ecosystem.

#### System restrictions

- The system will not provide real-time tracking of courier locations.
- The system will not support chat or notification features.
- The service will not support multiple languages; all data and communication will be in the same language.

#### Intended audience and project scope

#### 1. Administrators / Logistics Managers:

- Function: Responsible for managing and organizing courier operations, such as assigning orders to couriers, monitoring delivery progress, and maintaining courier schedules.
- Access: Full system access, including order assignment, tracking, and data management.

#### 2. Couriers:

- Function: Responsible for executing the deliveries, viewing assigned orders, updating order status upon delivery, and managing their availability schedules.
- Access: Restricted access limited to the orders assigned and their delivery status updates.

#### Potential improvements

- Real-time order tracking
- Machine learning for demand prediction
- Registration of new couriers via app

### Non-Functional Requirements

#### • Performance requirements

- The application will use a stable database system that can handle higher current load
- The application will take into account the growth of users and the growing volume of stored data.

#### • Security requirements

- Login credentials will be encrypted and secured
- o The system will use an external payment gateway to transfer funds

#### Quality requirements

- The design of the application will be intuitive, modern and minimalistic
- The application will be usable without limitations on all common operating systems and browsers

#### References

https://gitlab.fel.cvut.cz/B231 B6B36EAR/morenmat

## Class diagram

Only the highlighted (blue) lines in the class diagram will be implemented.

