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Last-Mile Delivery Management Ecosystem

June 21, 2021

Overview

The platform is developed to be used internally by Berry Smart Logistics for its last mile delivery operations. The platform is intended to be sold as a SaaS with white-labeling to other SME couriers and/or online trades that offer their own delivery in the city.

Specifications

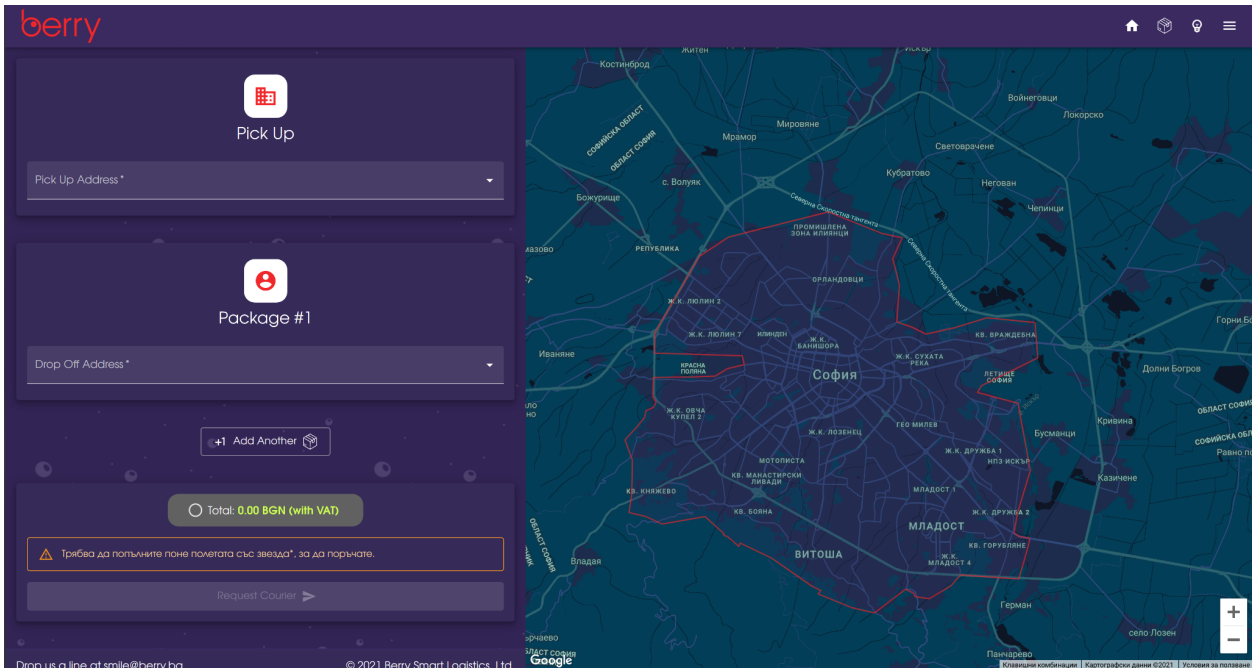
The platform is developed with the latest trends in software development with a technological stack involving Docker Products / React / ReactNative / RubyOnRails / Python / PostGIS / PostgreSQL / ML / CI+CD pipelines / Containerization / Microservice Architecture

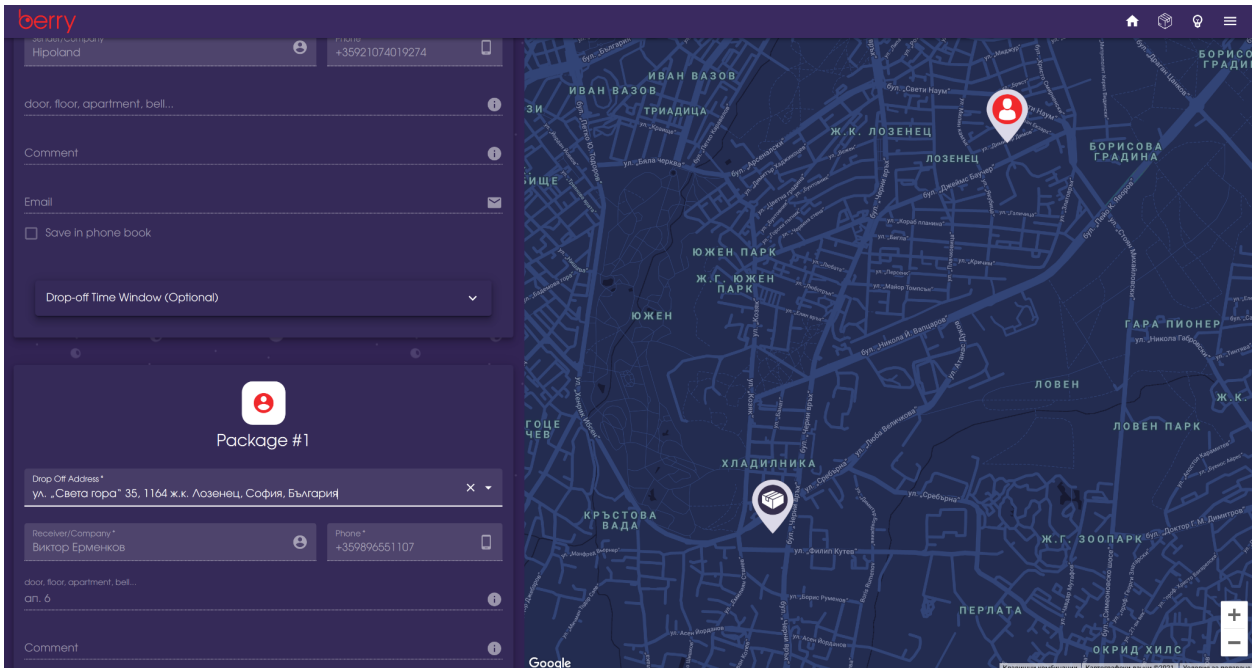
Features

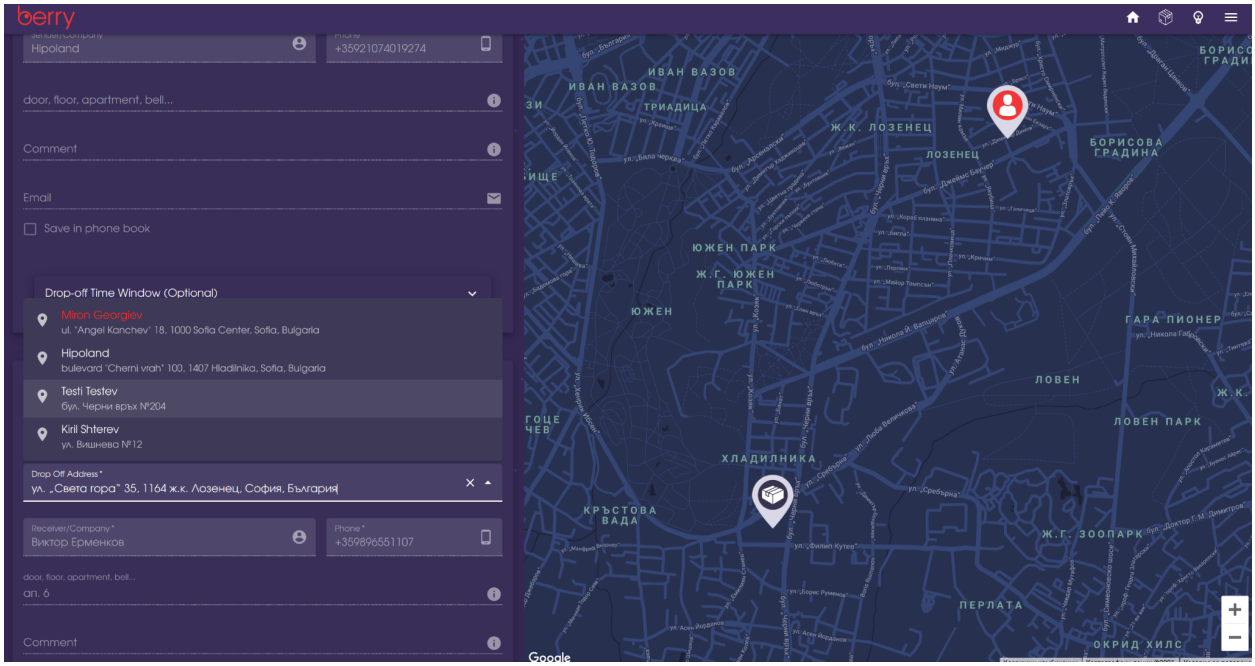
I. Merchant/Dispatcher Panel

A web/mobile app that is the main administrative and control panel of the owner of the fleet.

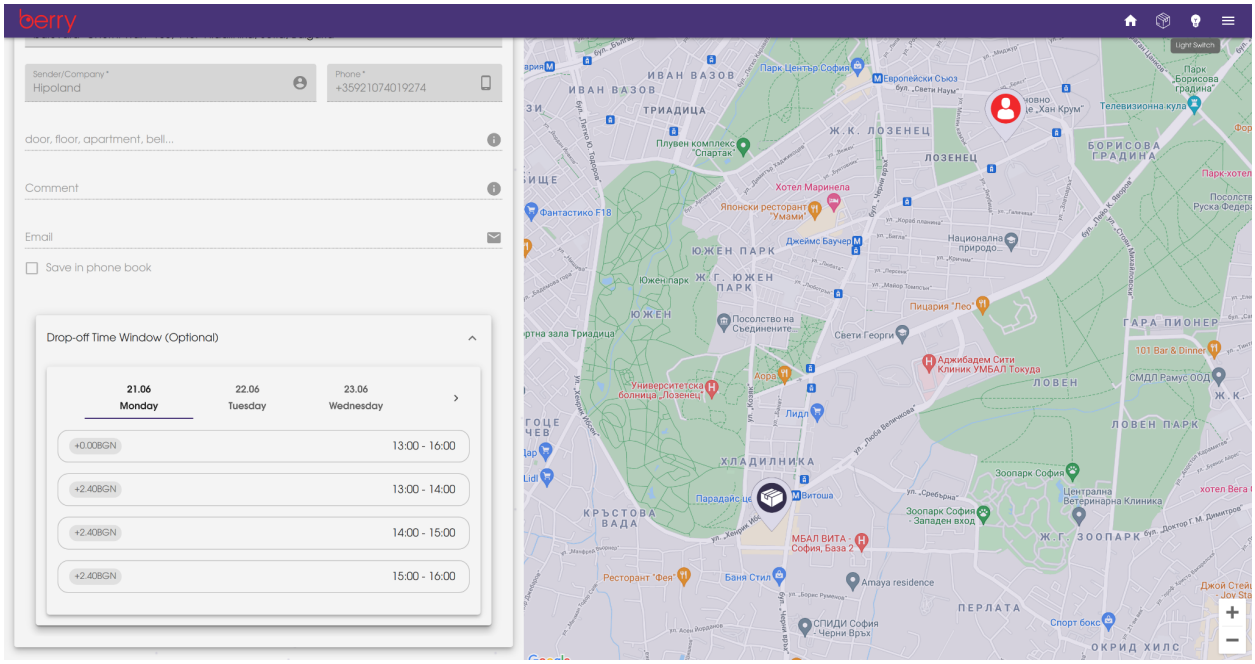
1. Cockpit/Map





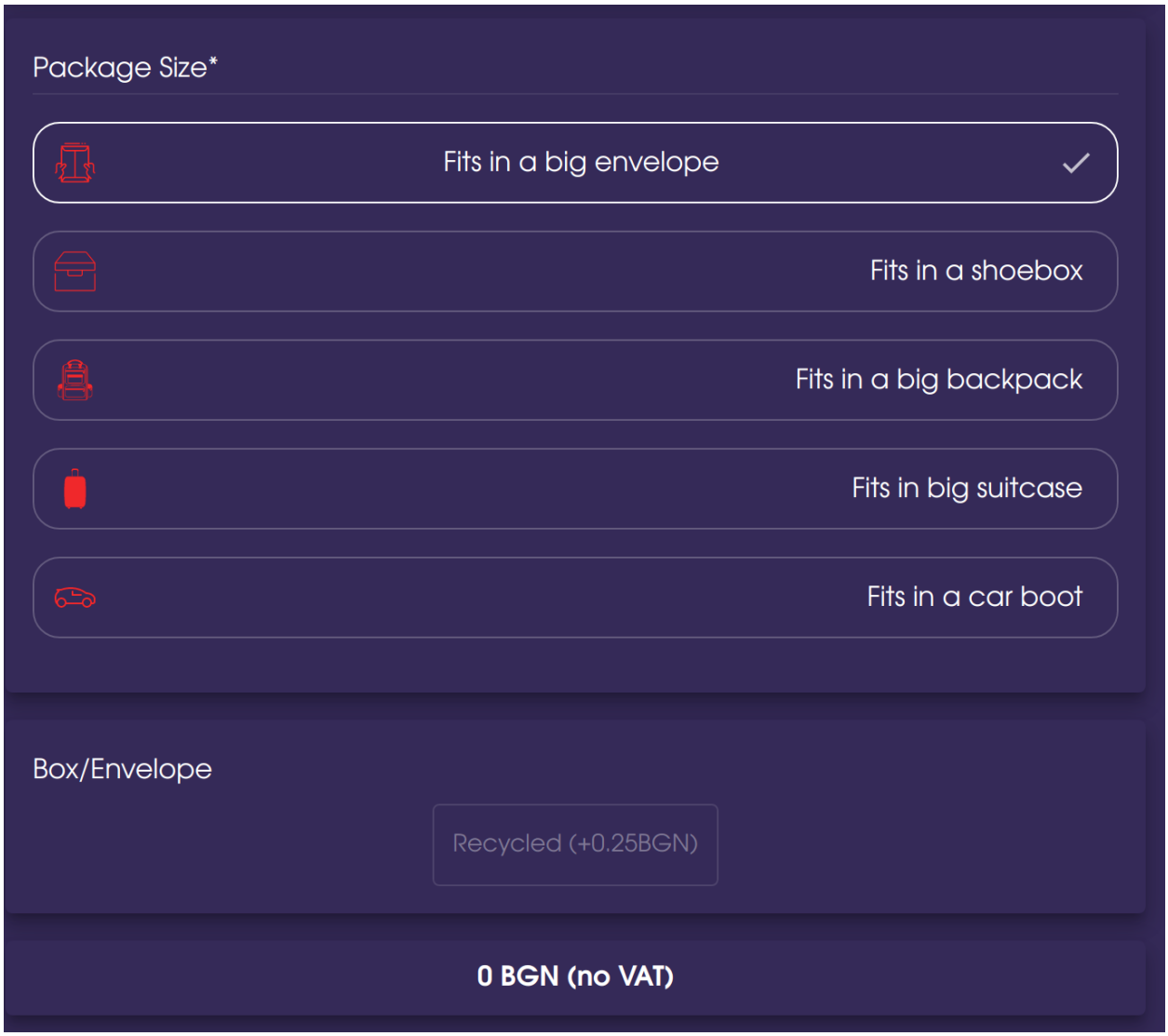


- Light theme available



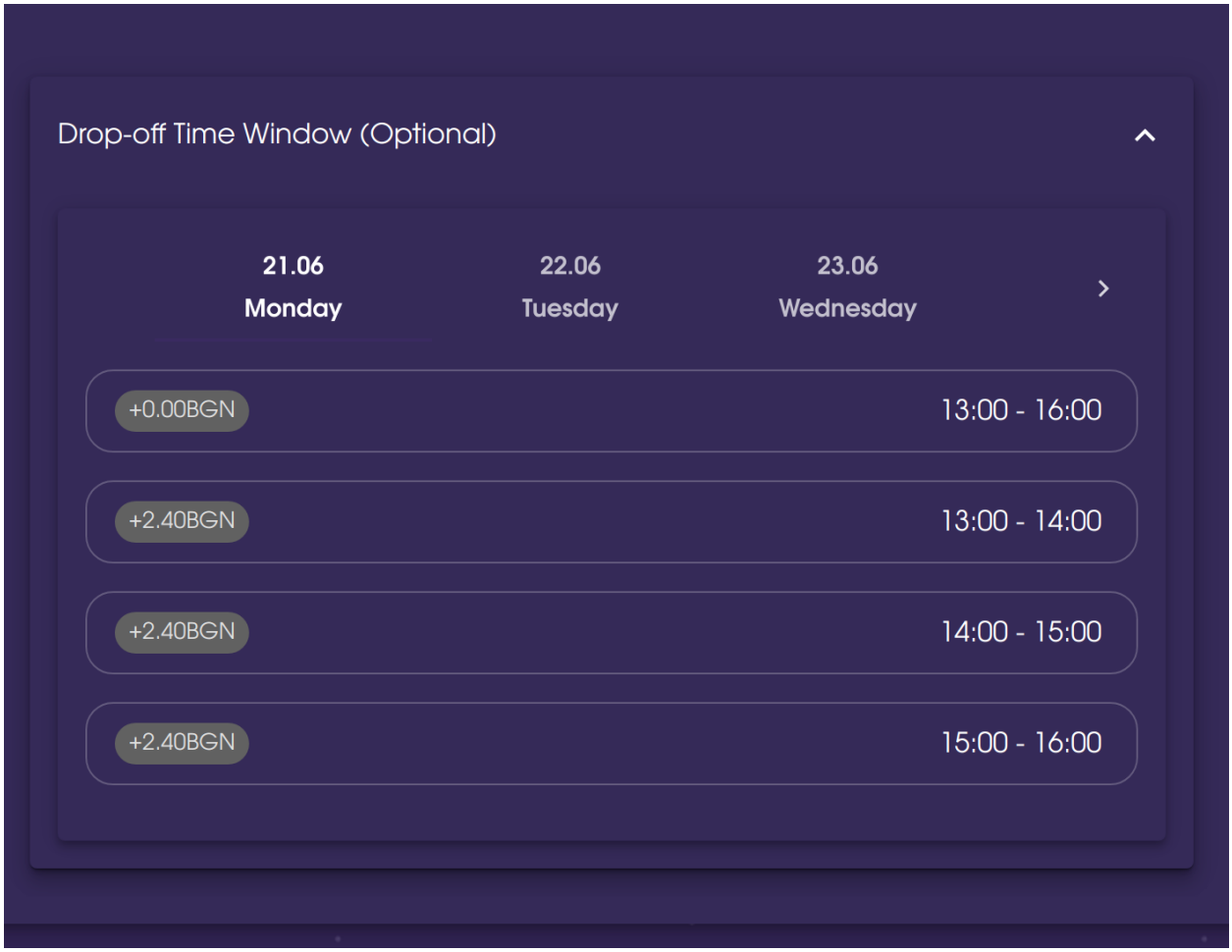
- Address book suggestions
- Address autocomplete
- Live map update with markers

- Live price calculations
- Live input error hinting
- Package size selection

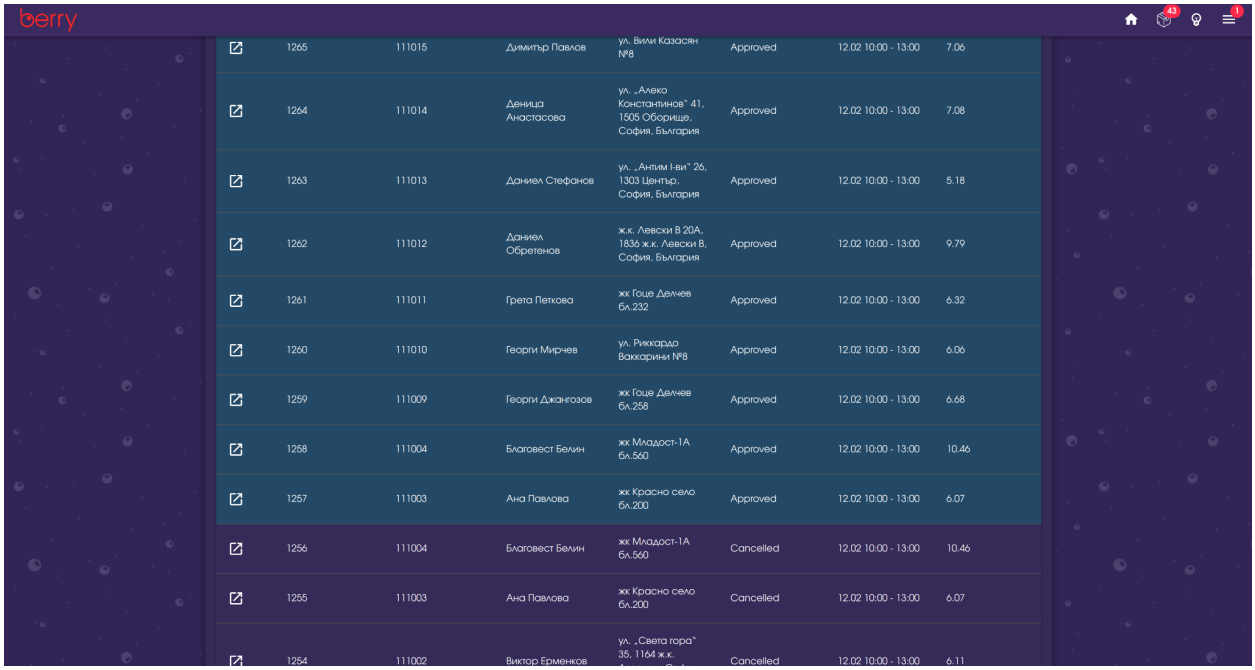


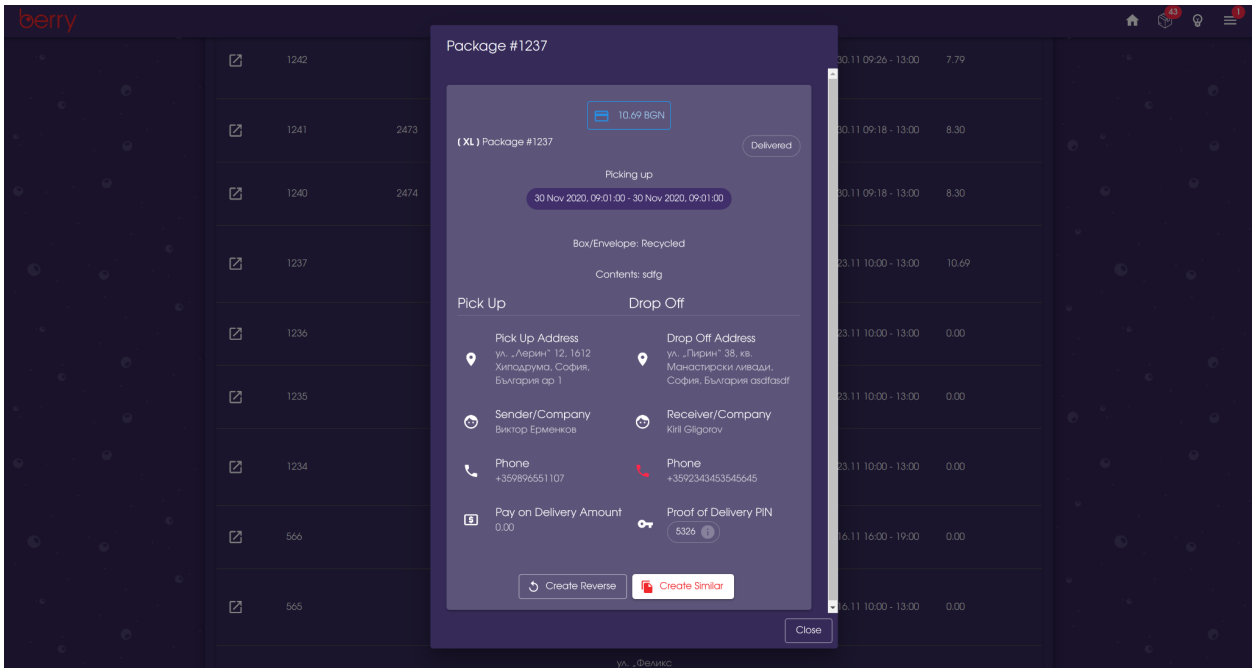
5

- Delivery window selection



2. All deliveries view

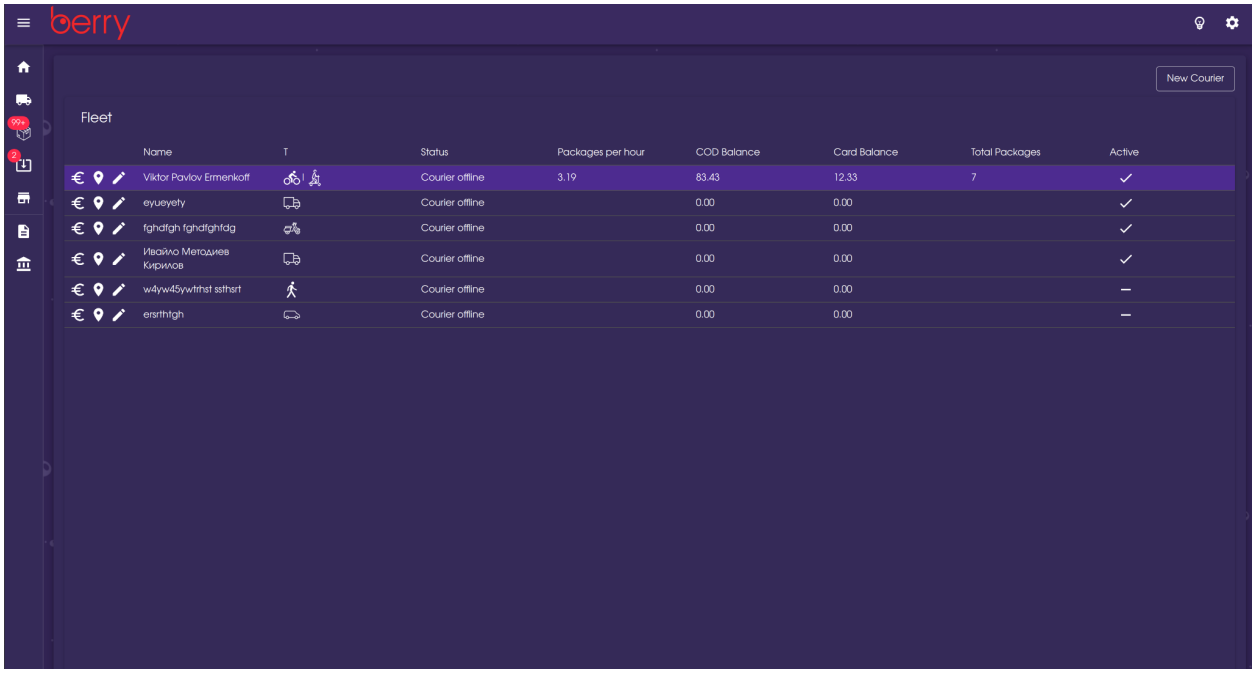




- List of all deliveries with statuses and information
- Reverse delivery option
- Similar delivery option

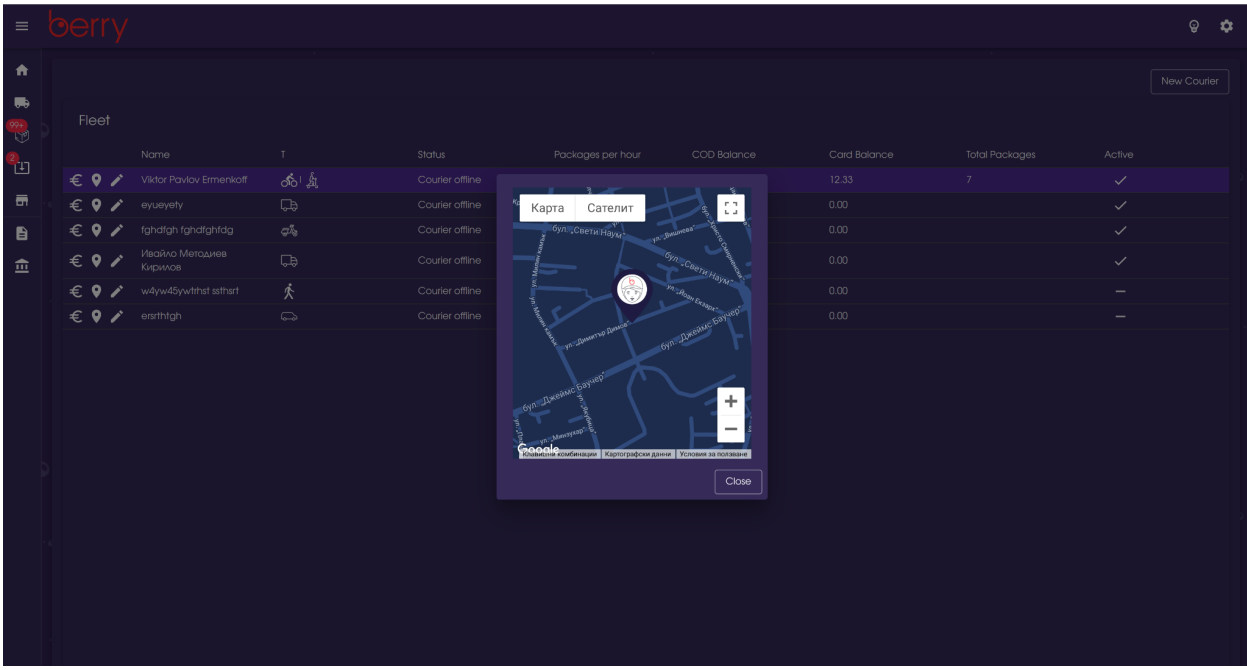
- Cancel delivery option
- Live table updates
- Live courier track on map
- Full delivery/contact info window

3. Fleet view (screenshots from development version)

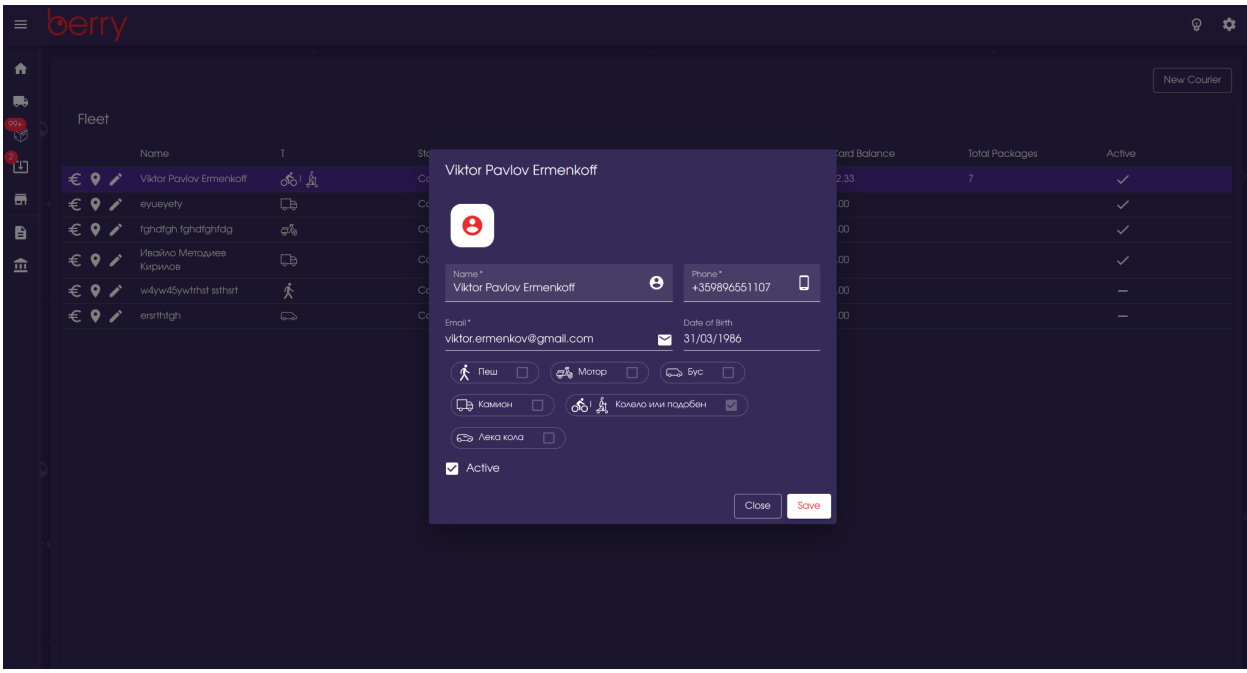


- Courier live listing

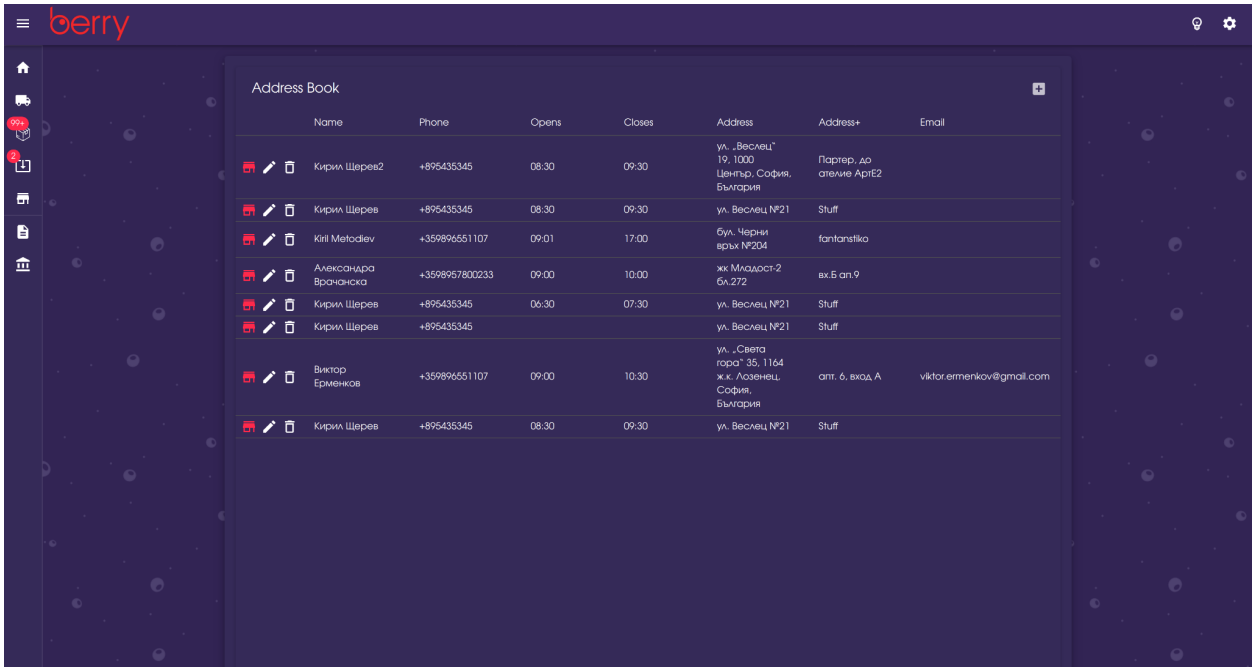
- Courier live tracking



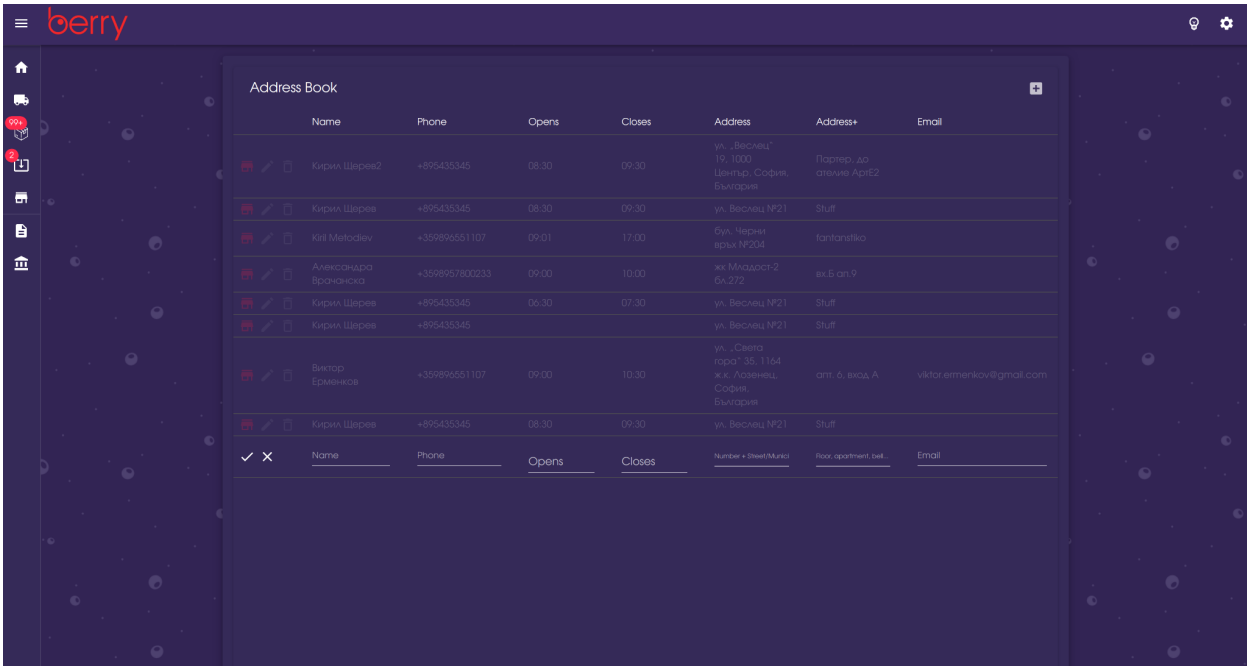
- Courier cash on delivery tracking
- Courier rating
- Courier effectiveness calculations algorithm
- Add/Edit courier

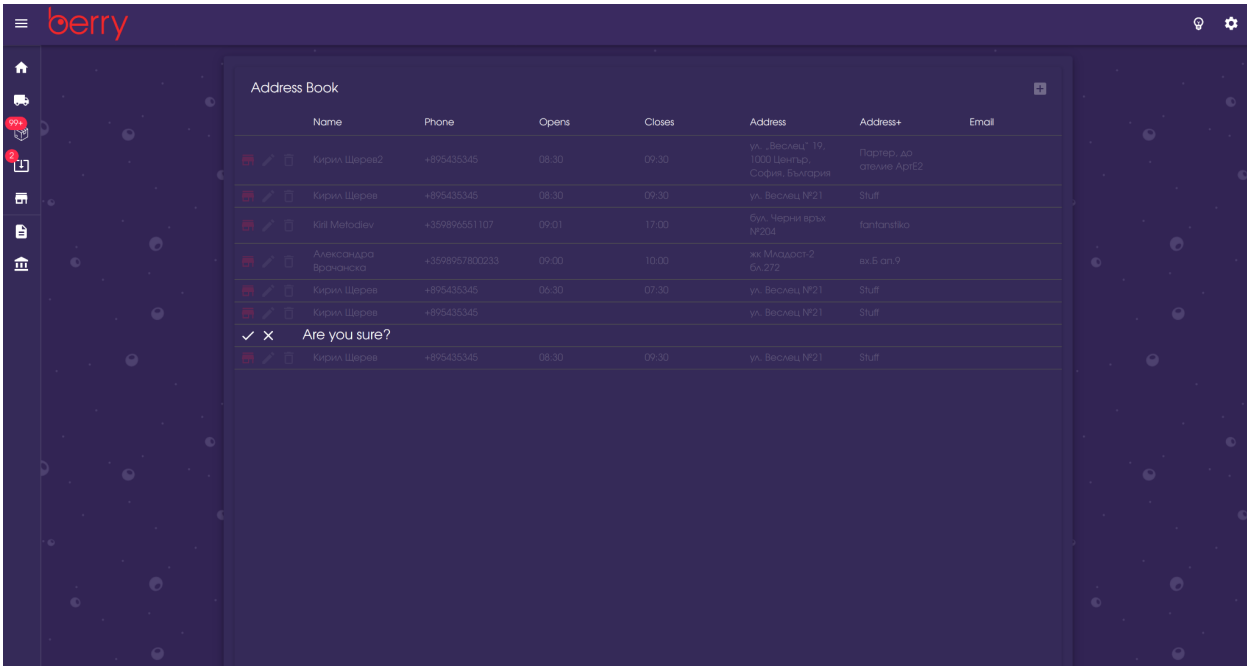


4. Address Book

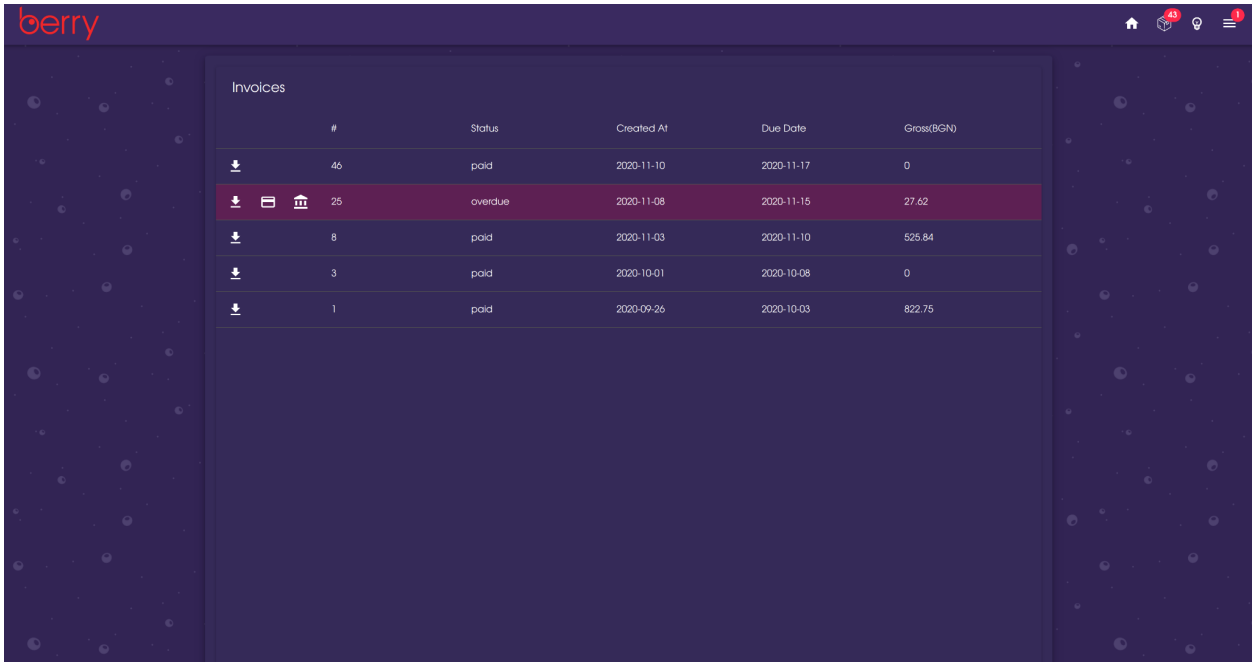


- List/Add/Edit/Delete Addresses/Depots

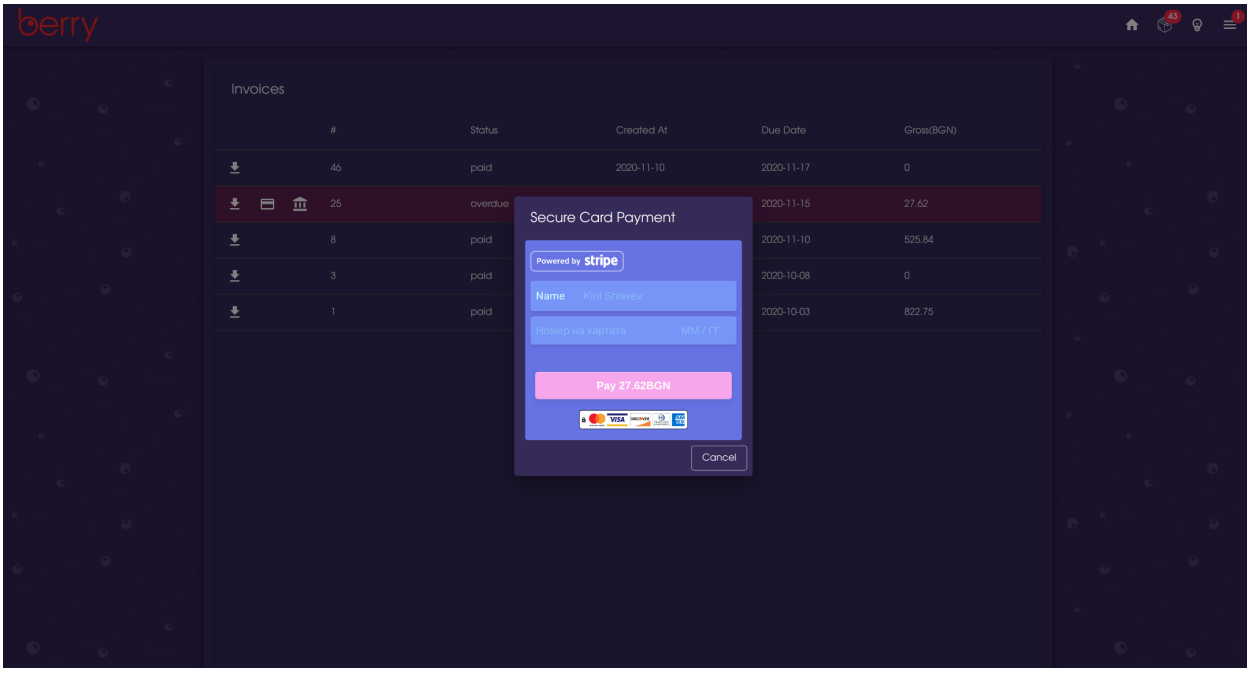




5. Invoices View

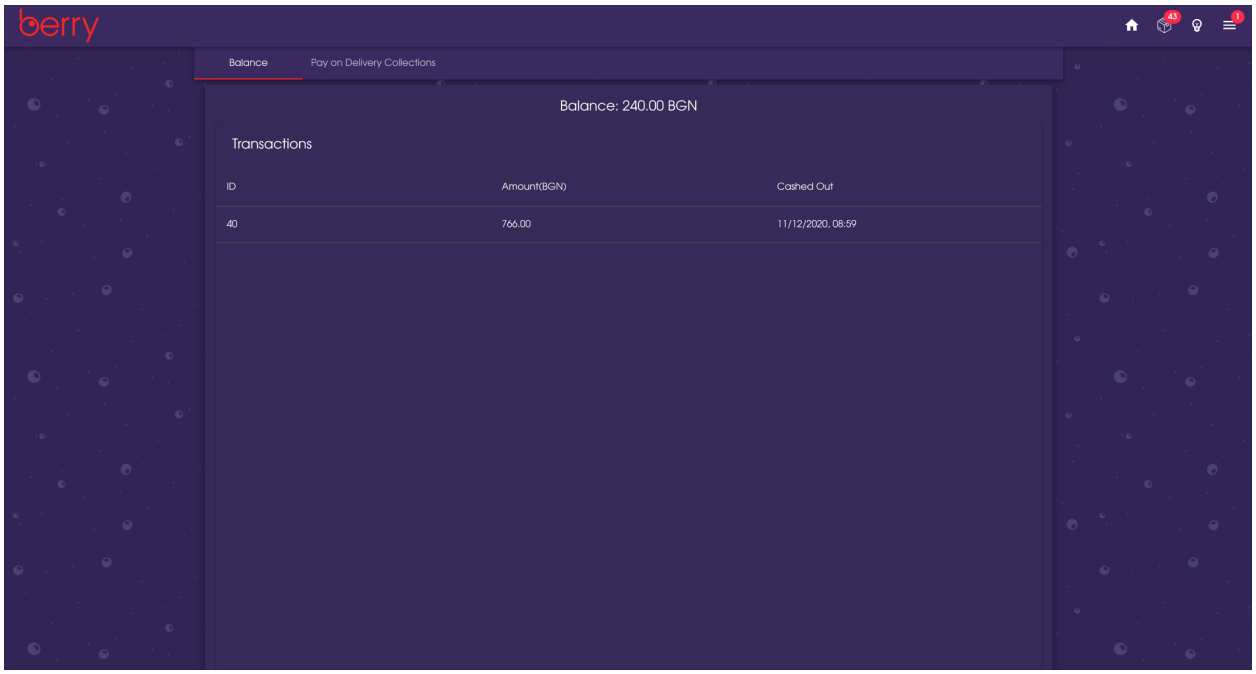


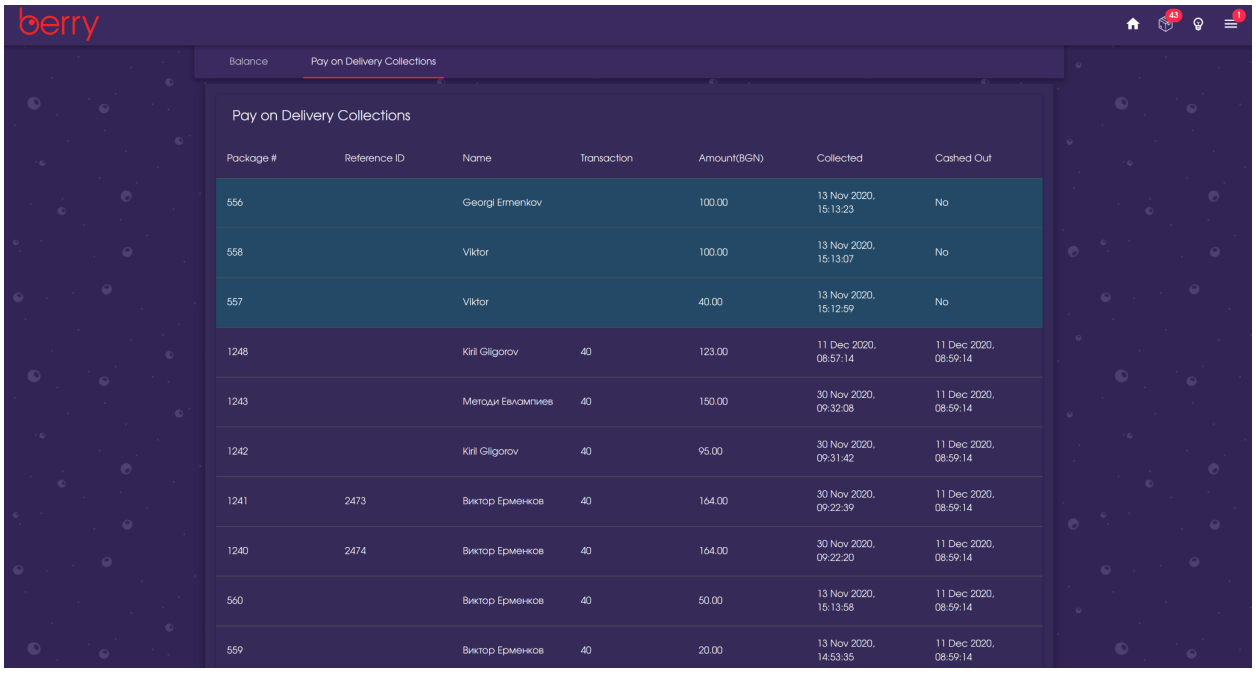
- Issued invoices
- Pay with card option (Full Stripe integration)



- Pay by bank option

6. Pay on delivery ballance view

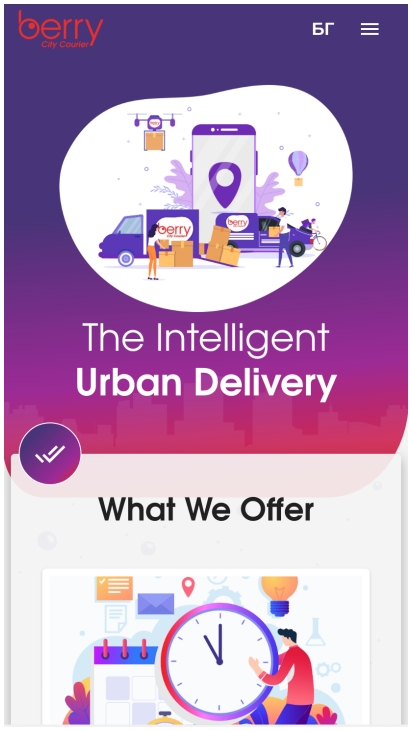


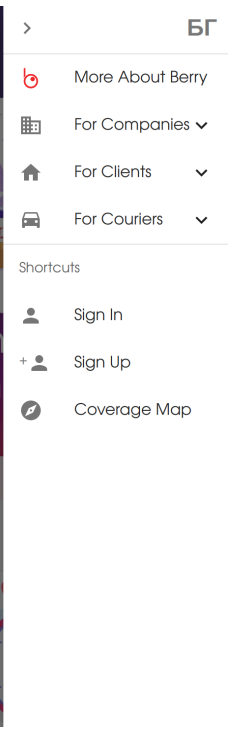


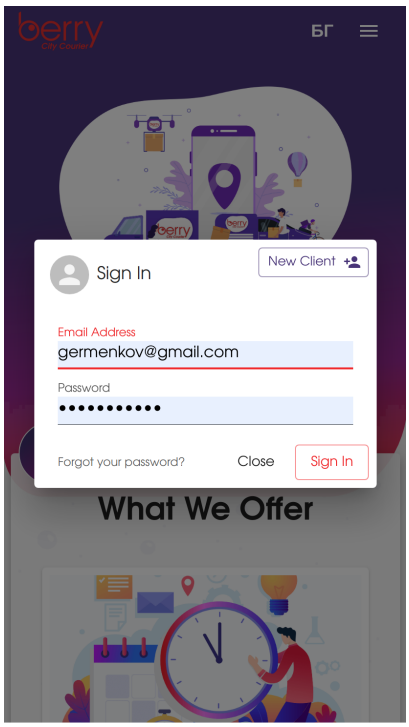
- Cash/Card collections by couriers

II. Customer facing web-app

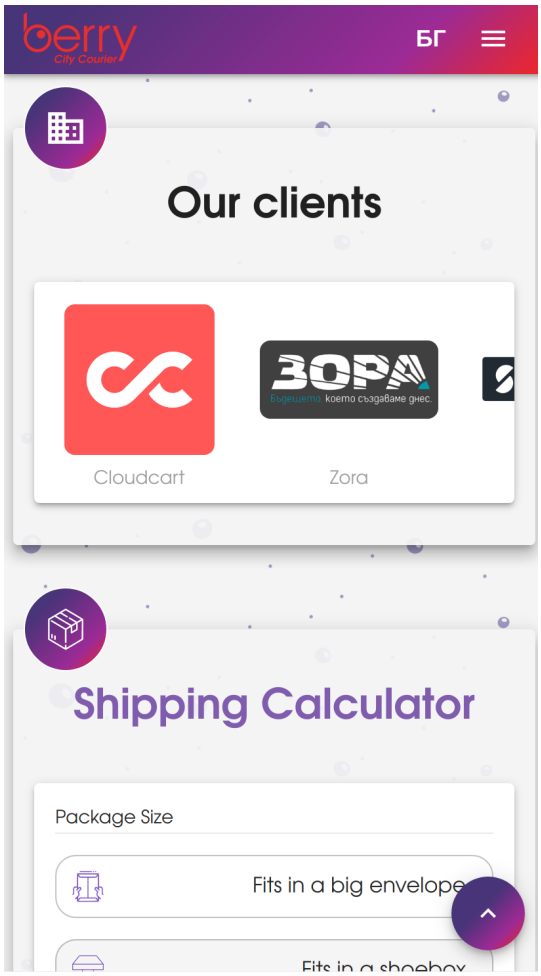
1. Website/Infosite



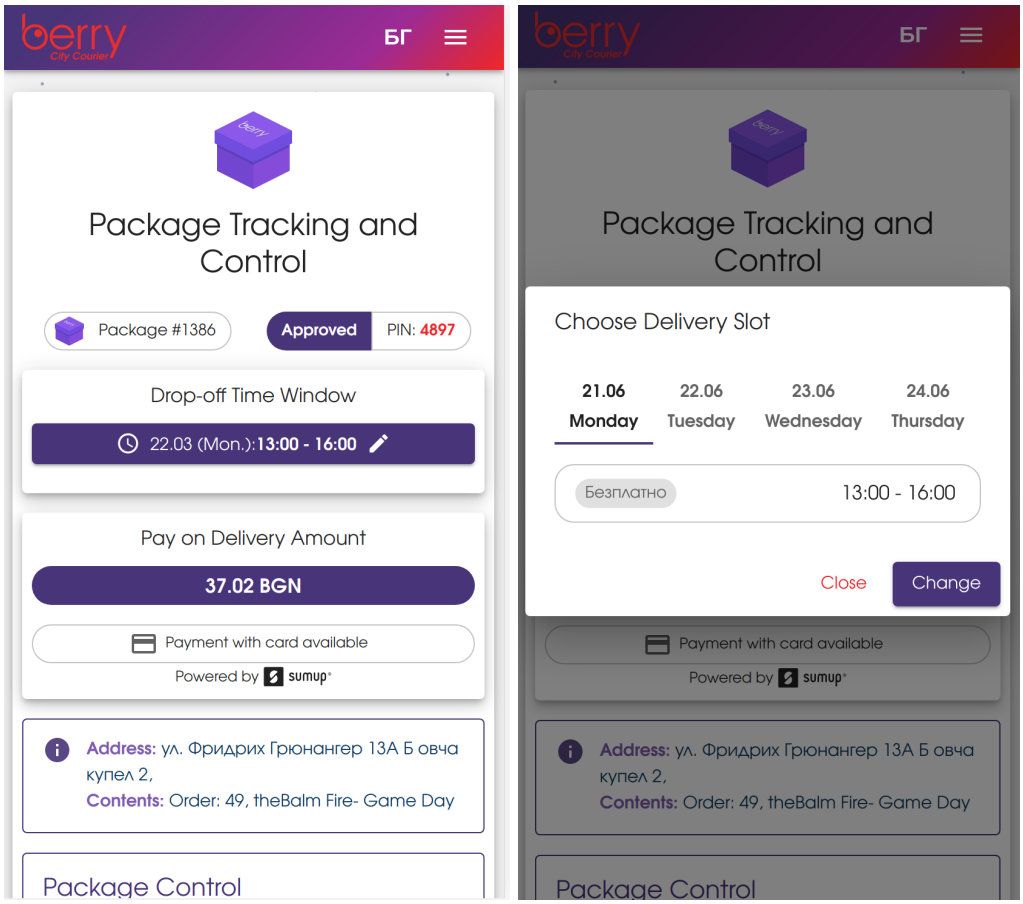


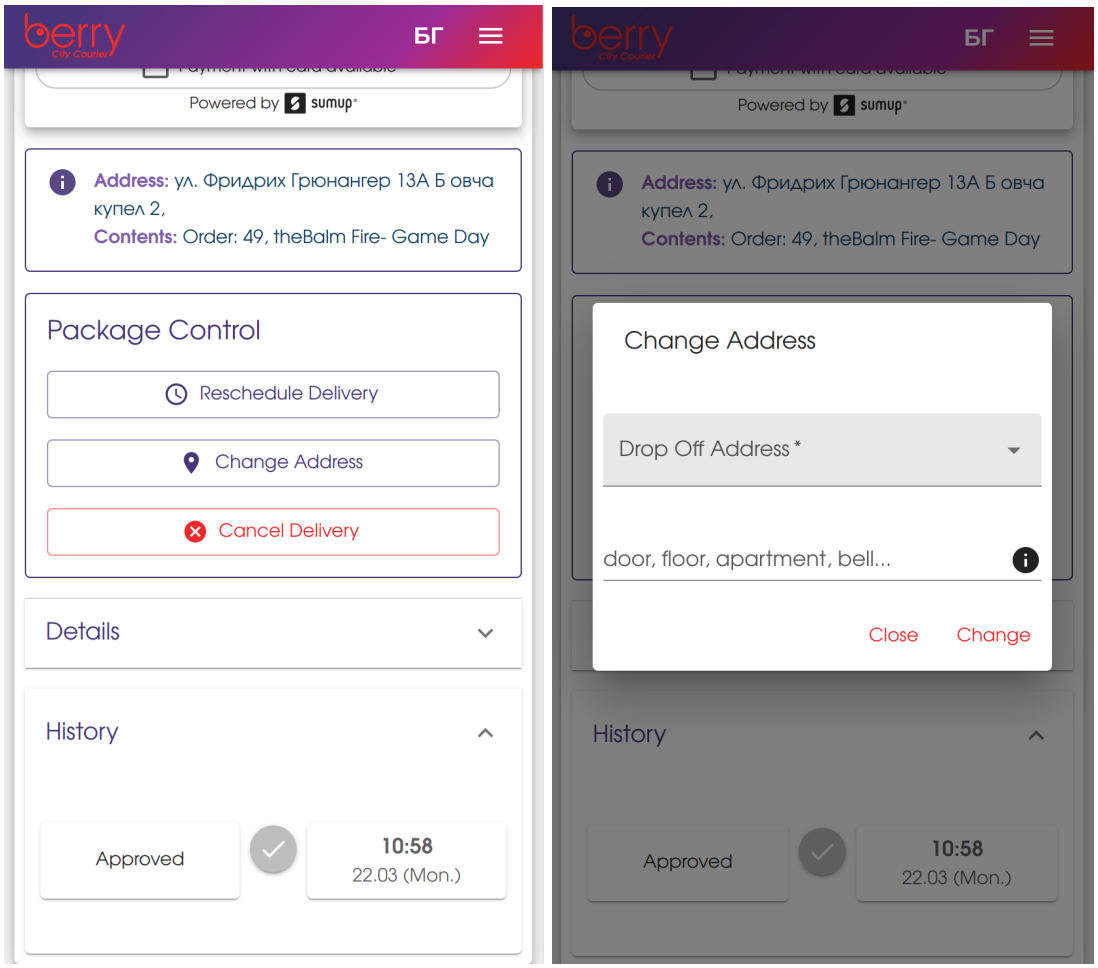


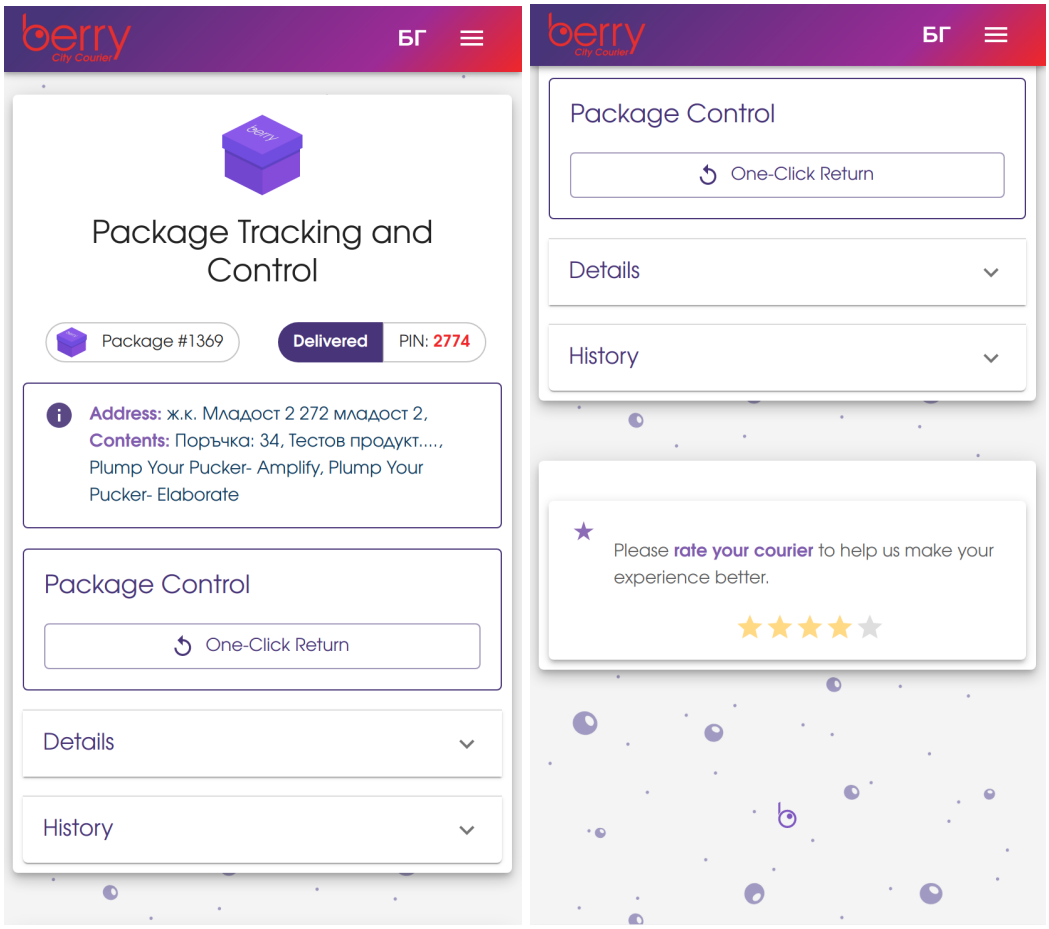
2. Blog/Press Pages



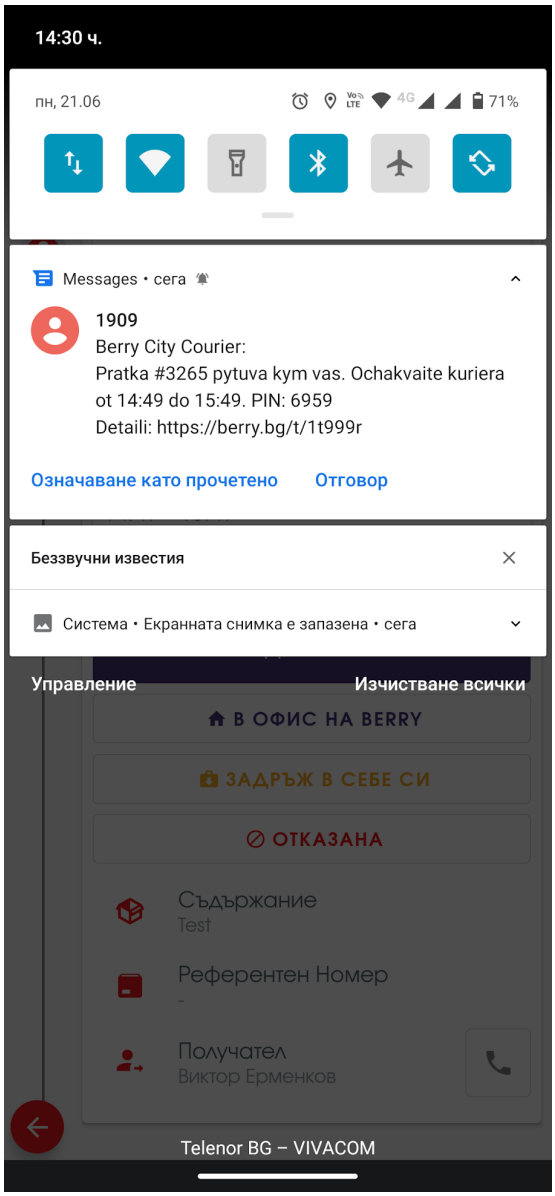
3. Package Tracking and Control Page




berry
City Courier
БГ
Powered by sumup
Address: ул. Фридрих Грюнангер 13А Б овча купел 2,
Contents: Order: 49, theBalm Fire- Game Day
Package Control
Reschedule Delivery
Change Address
Cancel Delivery
Details
History
Approved
10:58
22.03 (Mon.)
Change Address
Drop Off Address *
door, floor, apartment, bell...
Close
Change


berry
City Courier
БГ
Package Tracking and Control
Package #1369
Delivered
PIN: 2774
Address: ж.к. Младост 2 272 младост 2,
Contents: Поръчка: 34, Тестов продукт...., Plump Your Pucker- Amplify, Plump Your Pucker- Elaborate
Package Control
One-Click Return
Details
History
Please rate your courier to help us make your experience better.

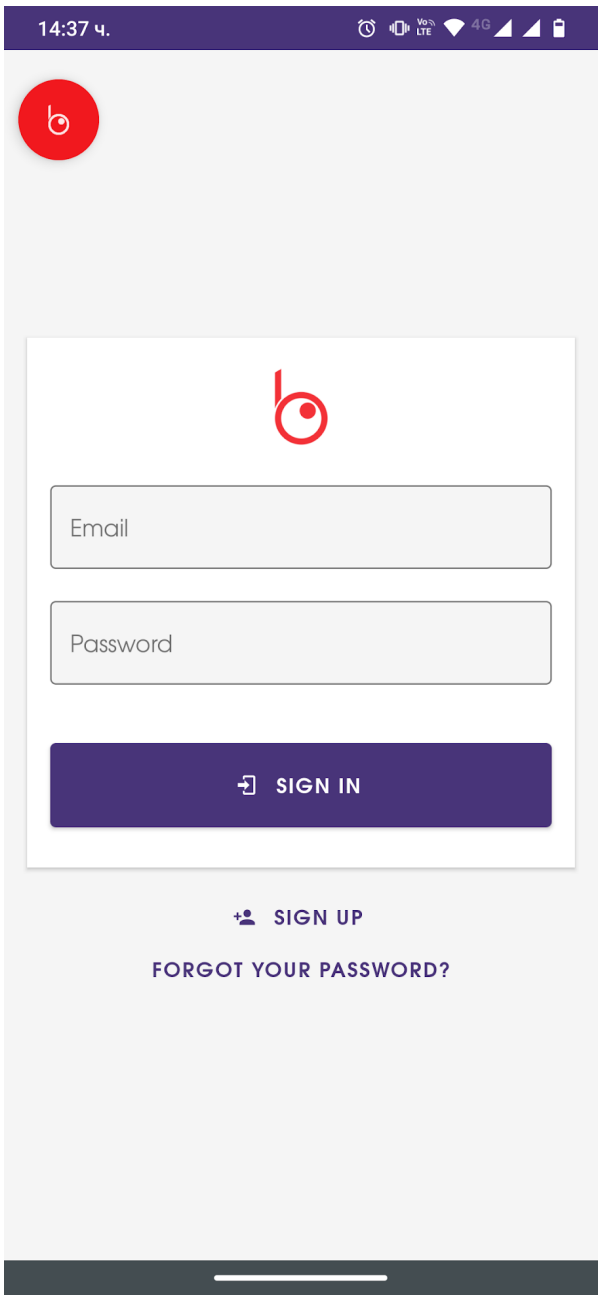
4. SMS Notification (screenshot in Bulgarian-Latin)



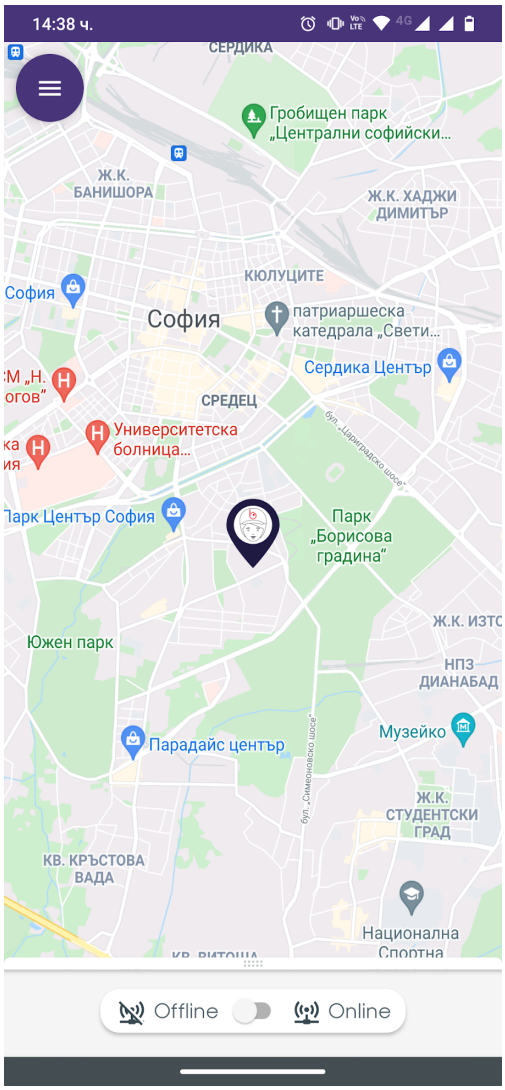
III. Courier Android/iOS Apps

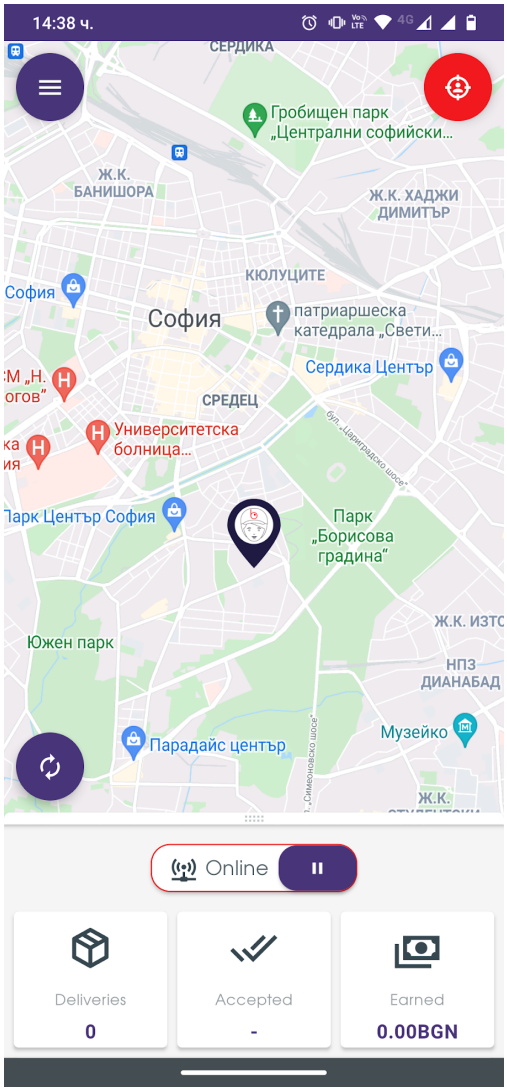
This mobile app provides all the needed features to maximize the courier performance, effectiveness and wellbeing at the job

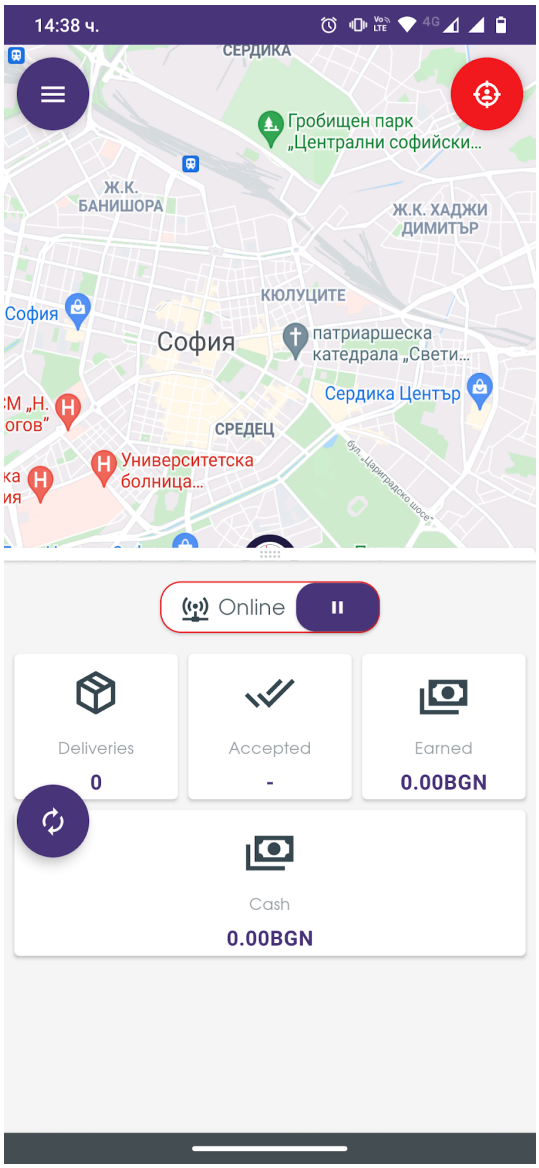
1. Sign in/Sign Up Screens

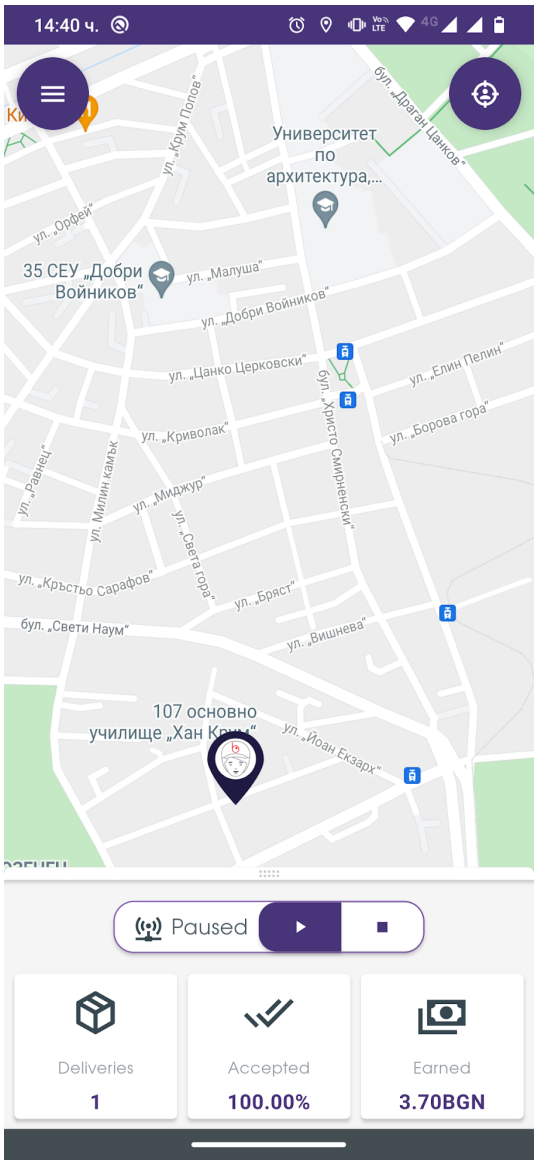


2. Stand-by screen Offline/Online/Paused

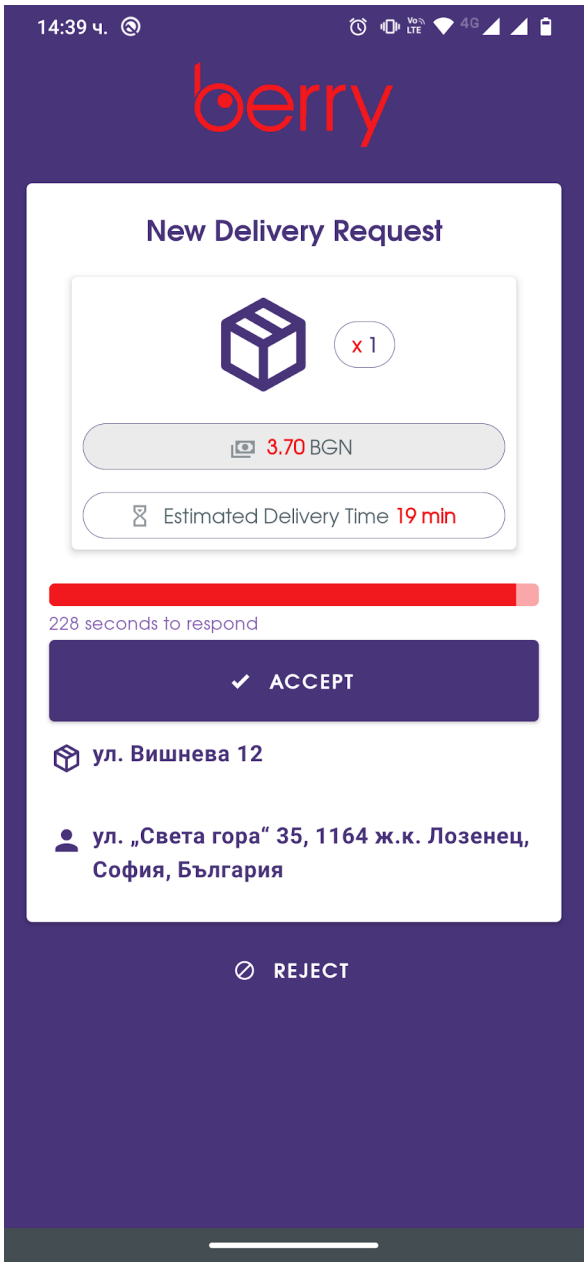




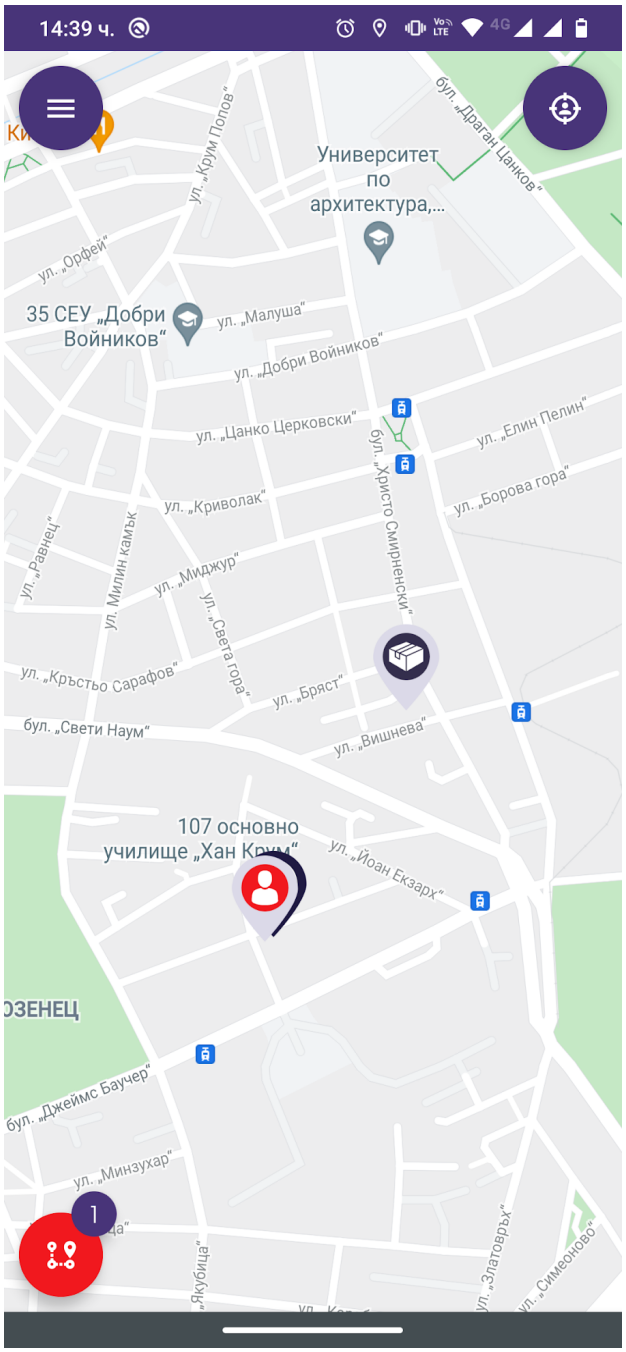

14:38 ч.
СЕРДИКА
Гробищен парк „Централни софийски...
Ж.К. БАНИШОРА
Ж.К. ХАДЖИ ДИМИТЪР
КЮЛУЦИТЕ
София
София
патриаршеска катедрала „Свети...
Сердика Център
СРЕДЕЦ
Университетска болница...
Online
Deliveries
0
Accepted
-
Earned
0.00BGN
Cash
0.00BGN


14:40 ч.
Университет по архитектура,...
35 СЕУ „Добри Войников“
ул. „Малуша“
ул. „Добри Войников“
ул. „Цанко Церковски“
ул. „Елин Пелин“
ул. „Борова гора“
ул. „Криволак“
ул. „Миджур“
ул. „Бряст“
ул. „Вишнева“
бул. „Свети Наум“
107 основно училище „Хан Крум“
ул. „Йоан Екзарх“
Paused
Deliveries
1
Accepted
100.00%
Earned
3.70BGN

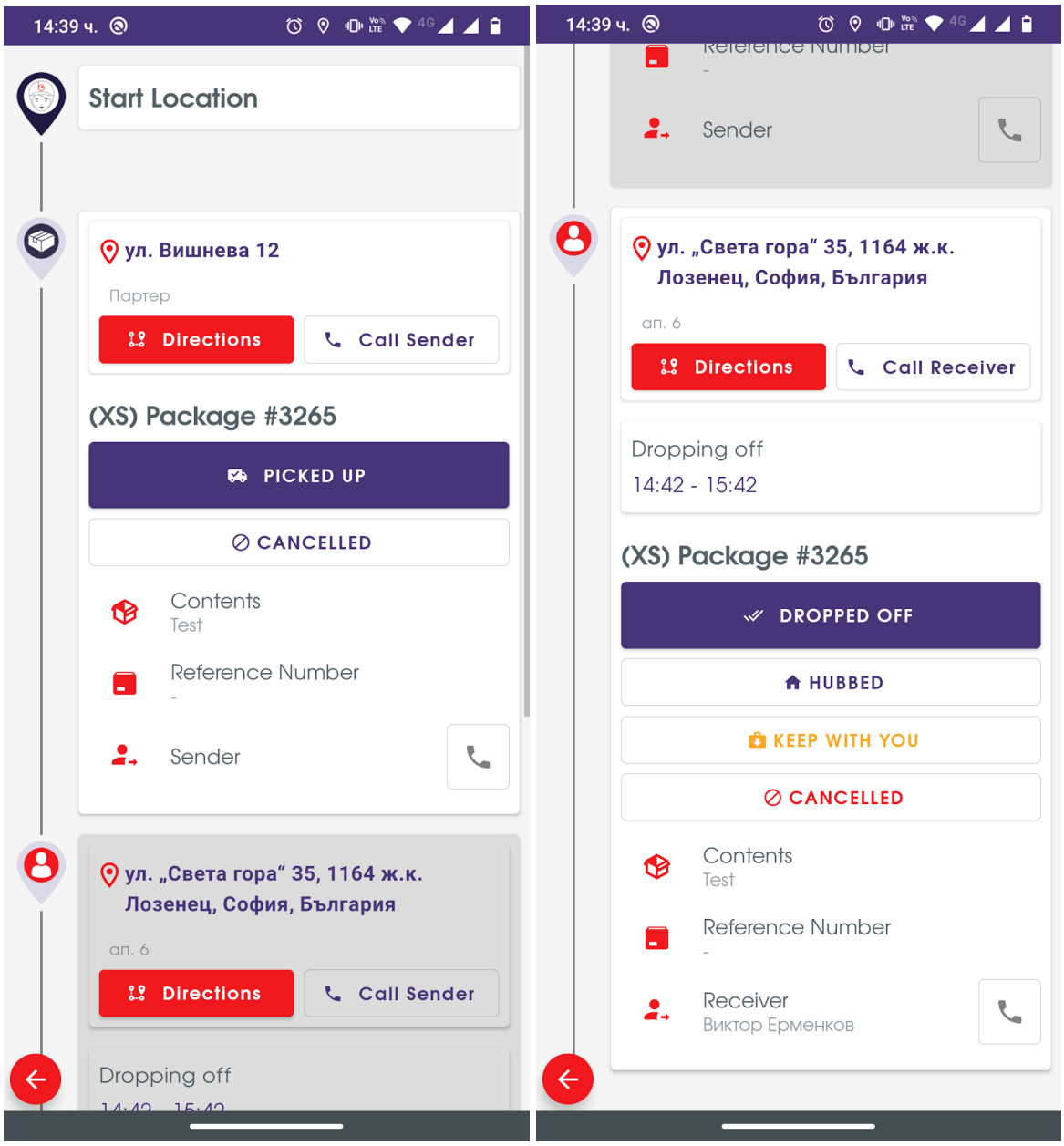
3. New delivery notification screen

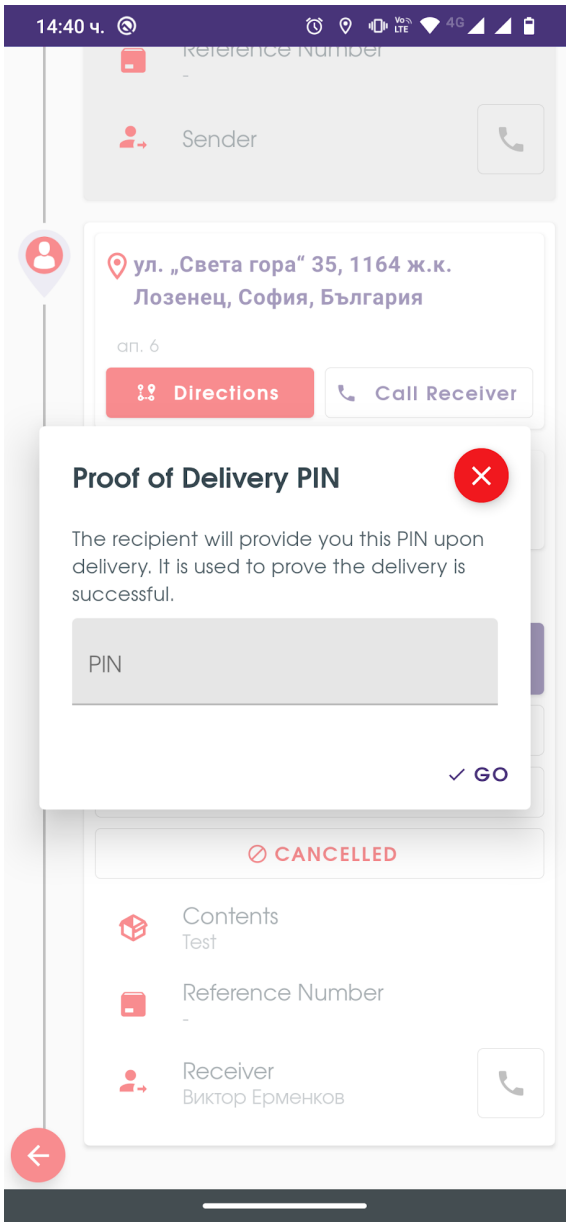


4. Active deliveries map view

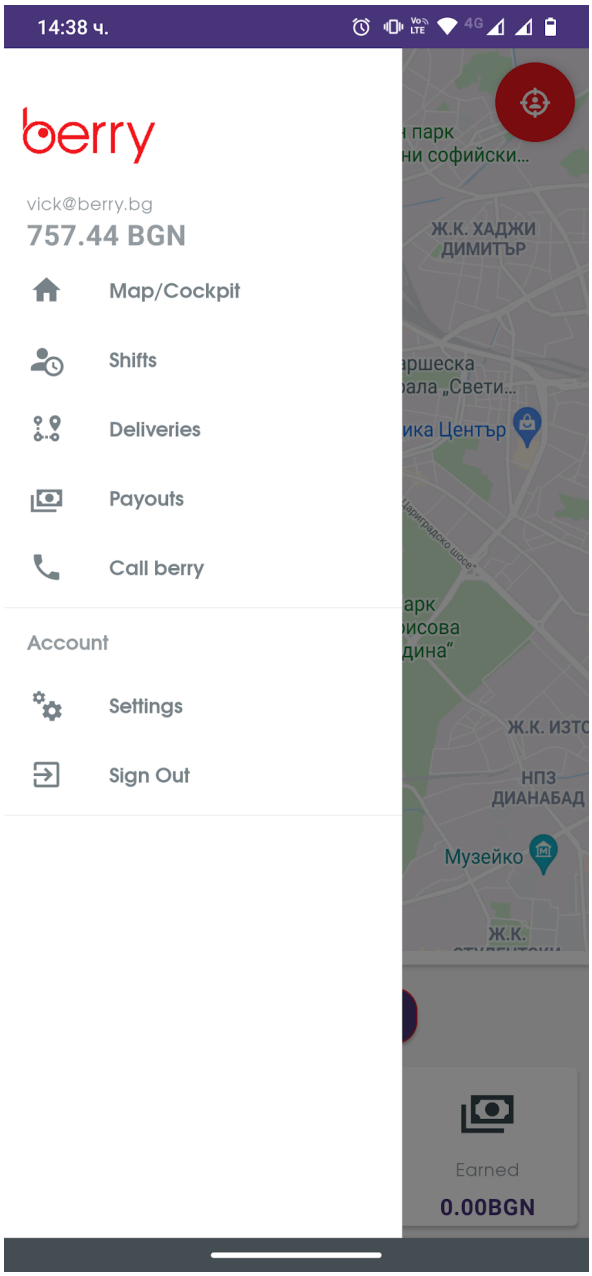


5. Active deliveries list view



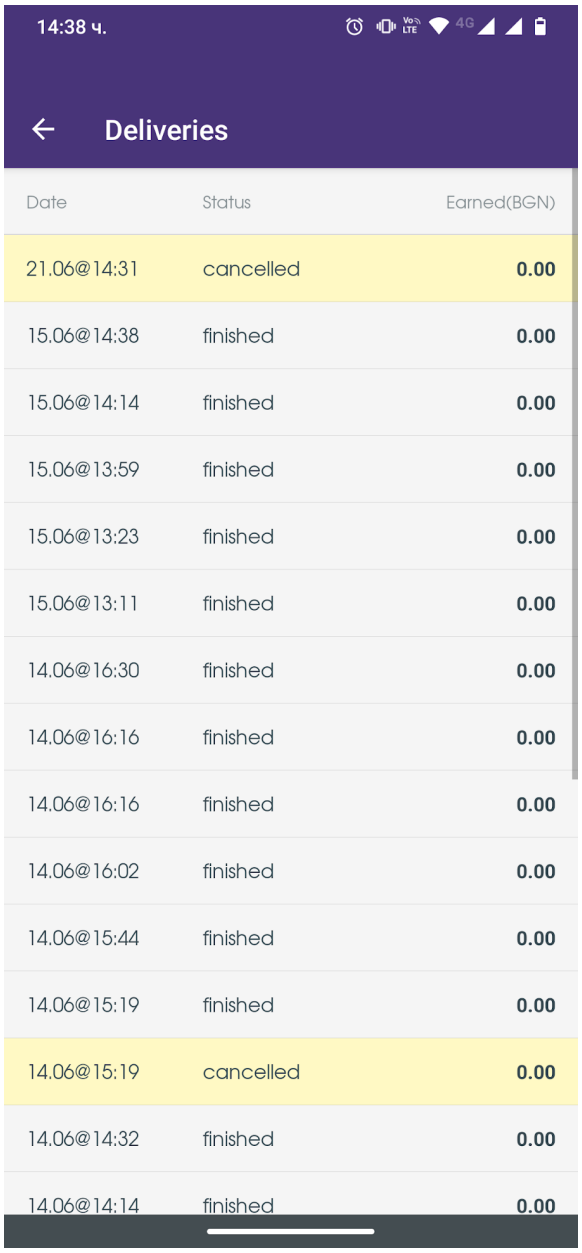

14:40 ч.
Reference Number
-
Sender
ул. „Света гора“ 35, 1164 ж.к. Лозенец, София, България
ап. 6
Directions
Call Receiver
Proof of Delivery PIN
The recipient will provide you this PIN upon delivery. It is used to prove the delivery is successful.
PIN
GO
CANCELLED
Contents
Test
Reference Number
-
Receiver
Виктор Ерменков

6. Side menu

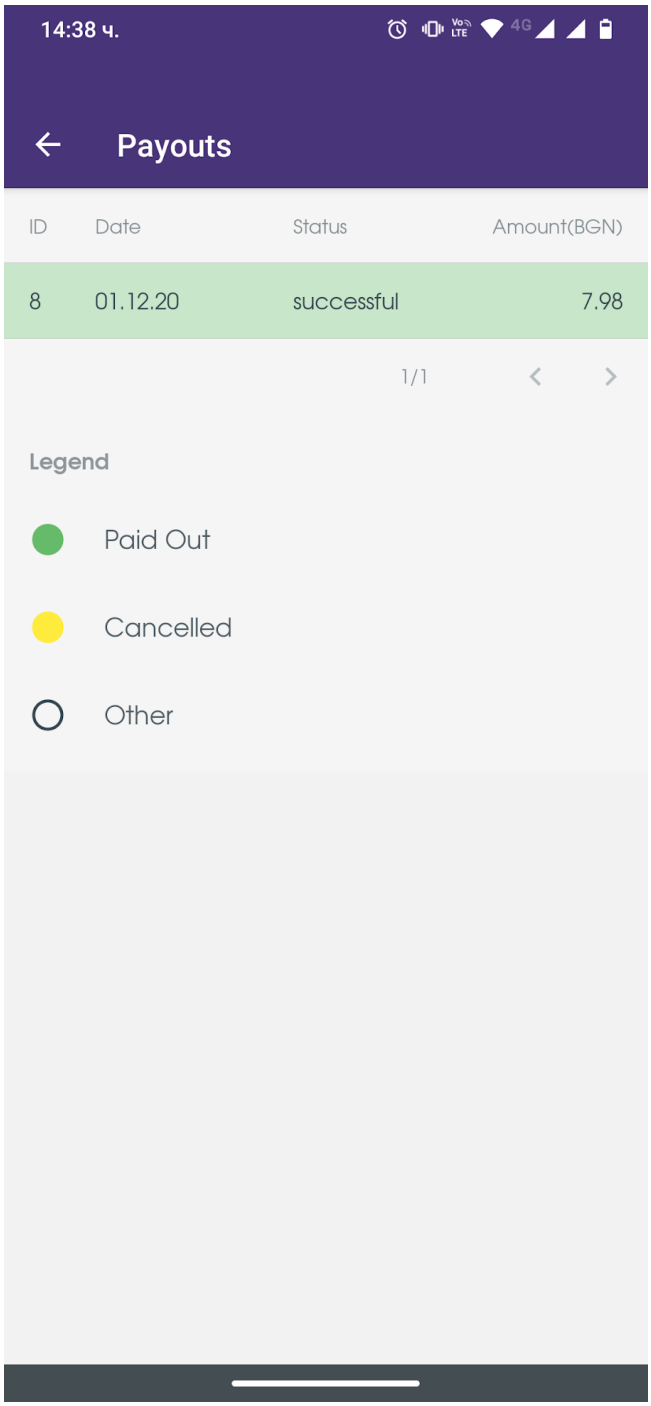

14:38 ч.
berry
vick@berry.bg
757.44 BGN
Map/Cockpit
Shifts
Deliveries
Payouts
Call berry
Account
Settings
Sign Out
Ж.К. ХАДЖИ ДИМИТЪР
Earned
0.00BGN

7. Shifts view

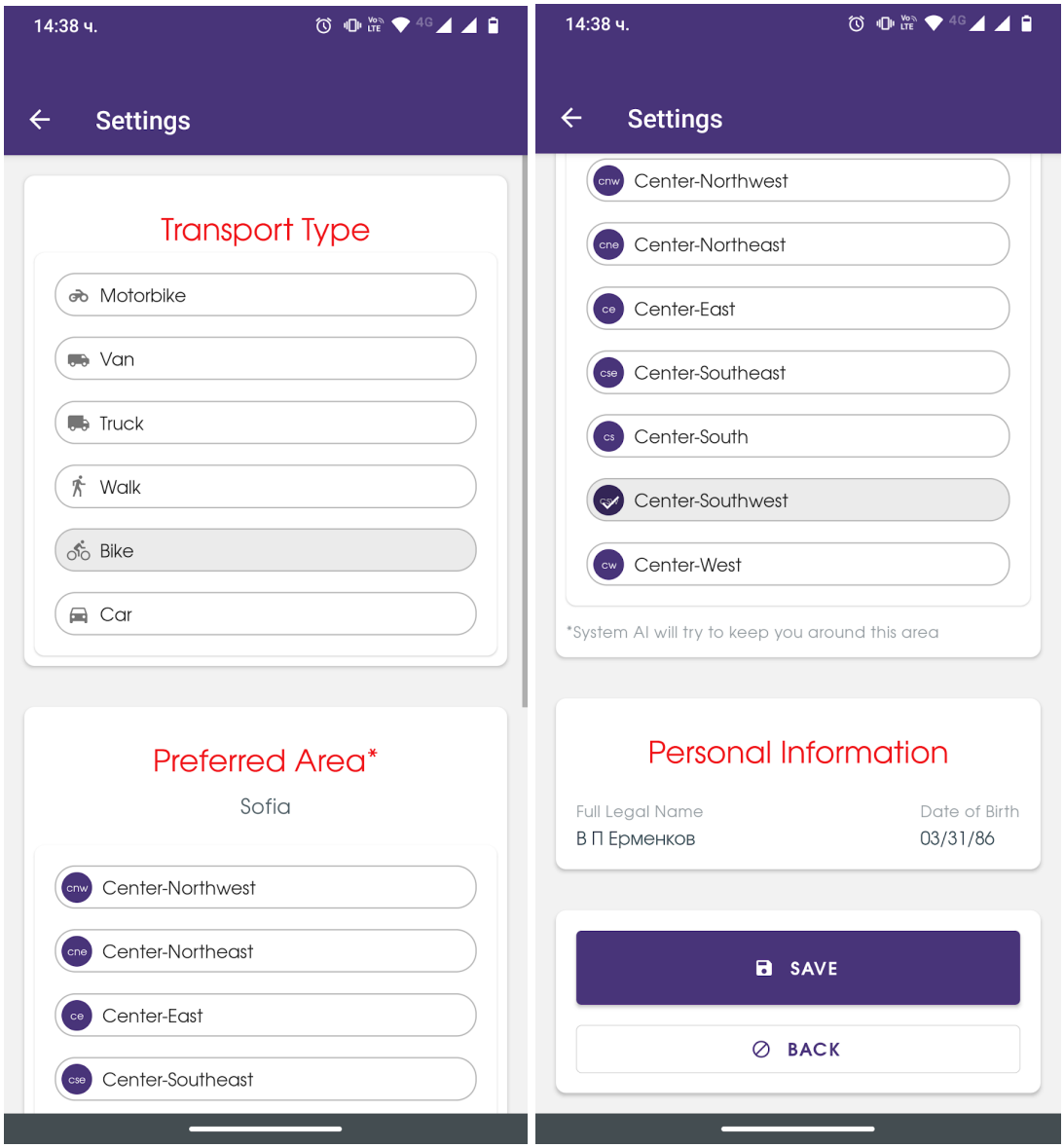
8. Delivery tours view



9. Payouts view



10. Settings view



IV. Back-end

The so called back-end or the gears that run the processes behind the apps are listed in this section:

- Full CI/CD automated process for fast and one-command deployment
- AI powered route optimization and distribution algorithm for package-courier
- Scheduled tasks involving payment processing, invoice generation, delivery distribution, courier shifts generation, courier performance coefficient calculations and much more…
- Runs in docker containers
- Runs on Google Cloud Platform (currently)
- Built with RubyOnRails and Python
- Extensive end-to-end automated tests
- Payment processor integration (stripe)
- Geo services integration (Google Maps/Places + BG Maps)
- SMS integration for client notifications