

## Berry Smart Logistics, Ltd.

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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

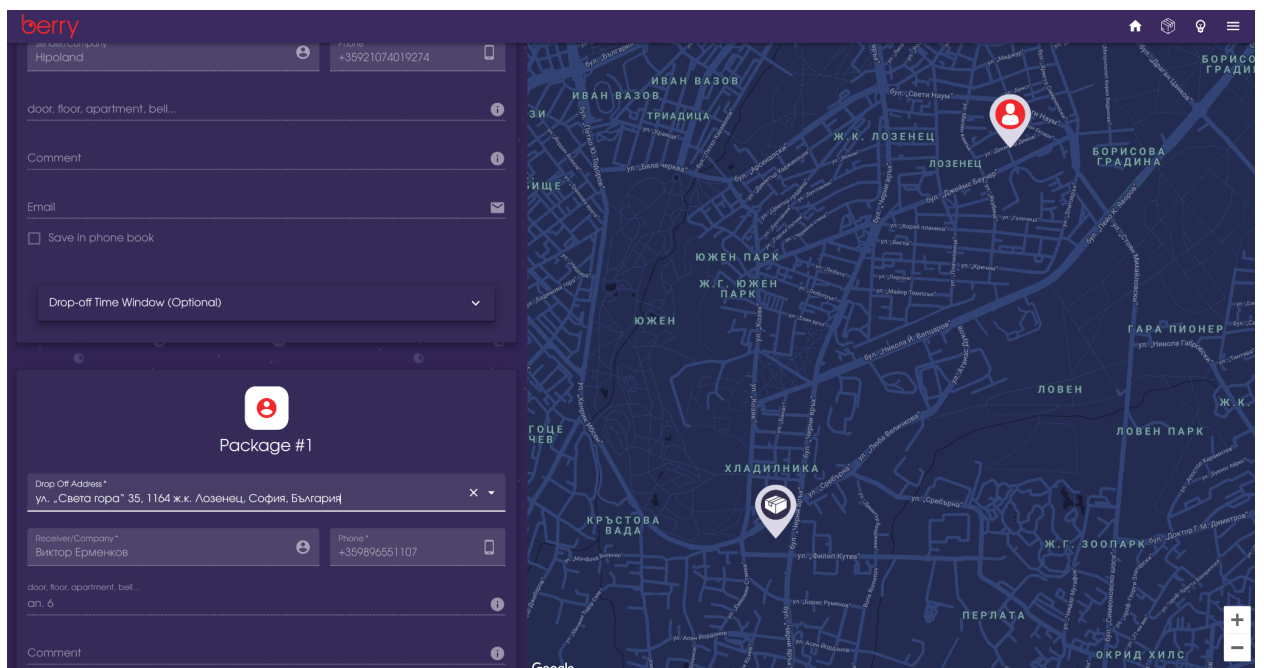
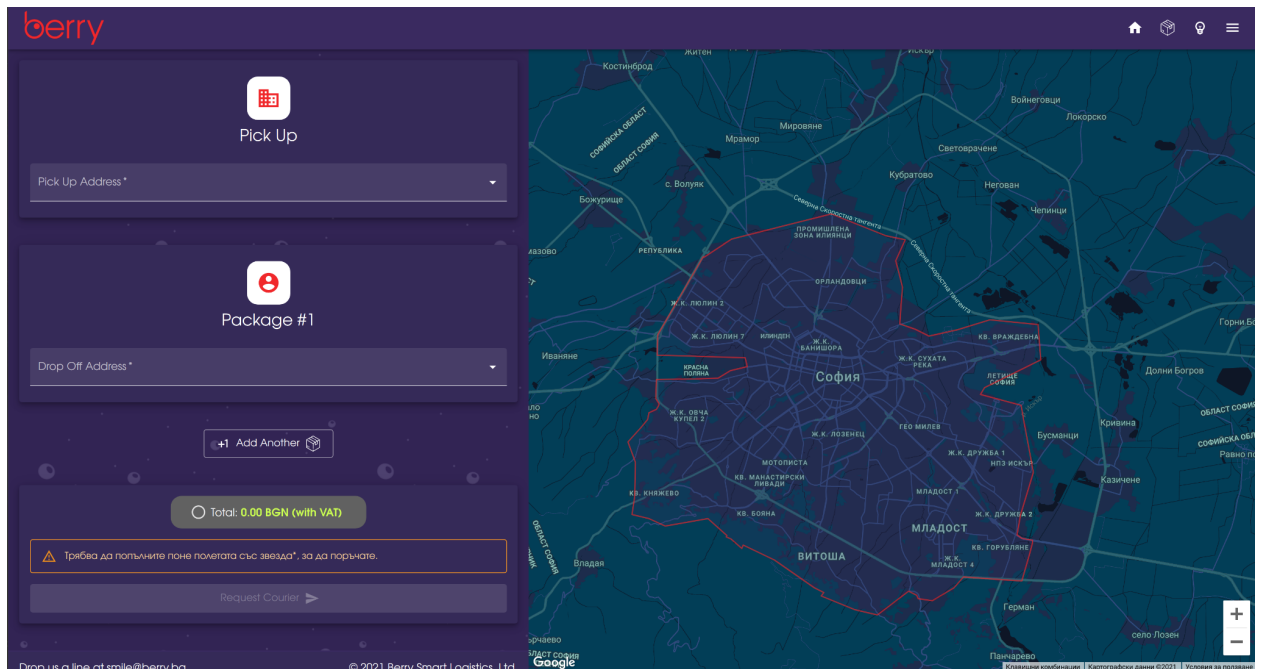
The platform is developed with the latest trends in software development with a technological stack involving Docker Products / React / ReactNative / RubyOnRails / Python / PostGIS / PostgreSQL / ML / CI+CD pipelines / Containerization / Microservice Architecture

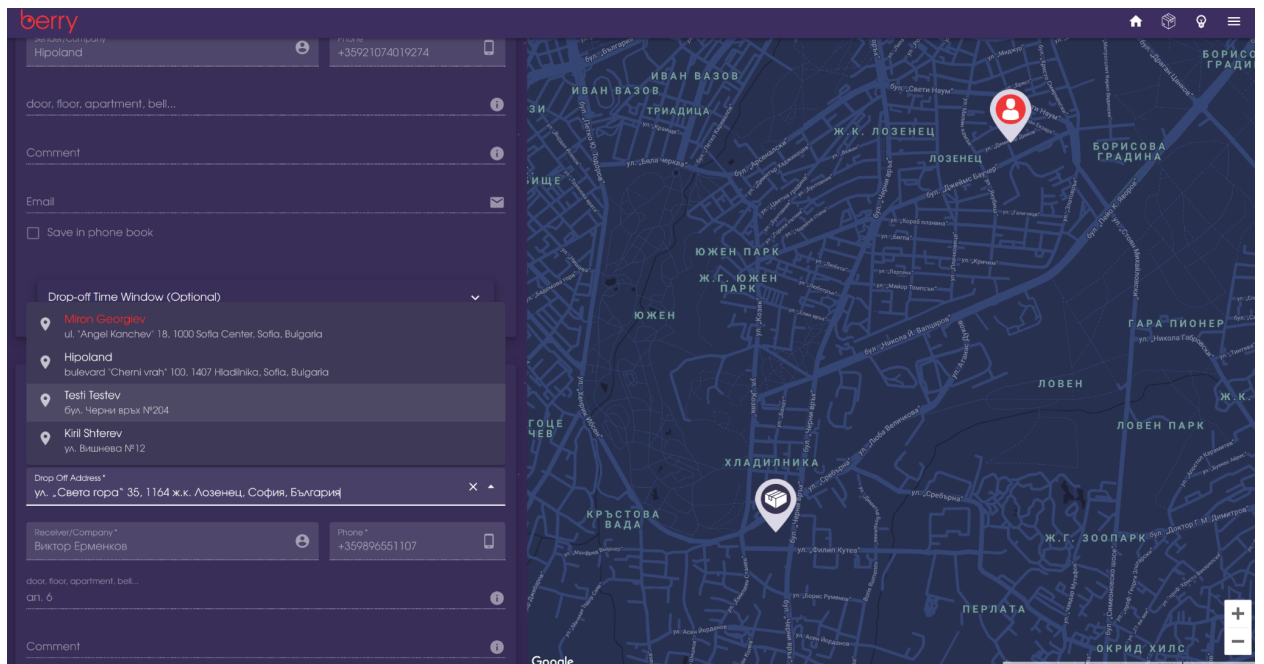
## Features

### I. Merchant/Dispatcher Panel

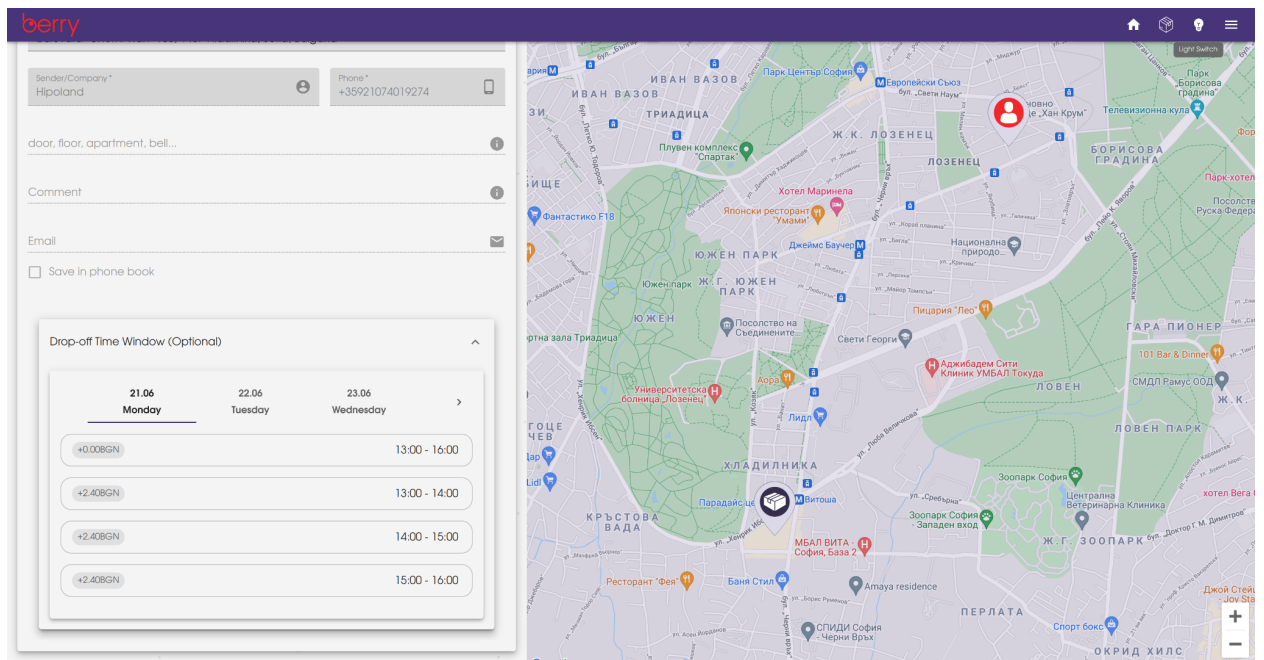
A web/mobile app that is the main administrative and control panel of the owner of the fleet.

## 1. Cockpit/Map





- Light theme available





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


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


Package Size\*

 Fits in a big envelope ✓

 Fits in a shoebox

 Fits in a big backpack

 Fits in big suitcase

 Fits in a car boot

Box/Envelope

Recycled (+0.25BGN)

0 BGN (no VAT)



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- Delivery window selection

Drop-off Time Window (Optional) ^

21.06  
Monday

22.06  
Tuesday

23.06  
Wednesday

>

+0.00BGN

13:00 - 16:00

+2.40BGN

13:00 - 14:00

+2.40BGN

14:00 - 15:00

+2.40BGN

15:00 - 16:00

## 2. All deliveries view

ID	Package ID	Name	Address	Status	Time Slot	Weight
1265	111015	Димитър Павлов	ул. Вили Казасян №8	Approved	12.02 10:00 - 13:00	7.06
1264	111014	Денца Анастасова	ул. „Алеко Константинов“ 41, 1505 Оборище, София, България	Approved	12.02 10:00 - 13:00	7.08
1263	111013	Даниел Стефанов	ул. „Антим I-ви“ 26, 1303 Център, София, България	Approved	12.02 10:00 - 13:00	5.18
1262	111012	Даниел Обретенов	ж.к. Левски В 20А, 1836 ж.к. Левски В, София, България	Approved	12.02 10:00 - 13:00	9.79
1261	111011	Грета Петкова	ж.к. Гае Делчев бл.232	Approved	12.02 10:00 - 13:00	6.32
1260	111010	Георги Мирчев	ул. Рихардо Вахарици №8	Approved	12.02 10:00 - 13:00	6.06
1259	111009	Георги Джангозов	ж.к. Гае Делчев бл.258	Approved	12.02 10:00 - 13:00	6.68
1258	111004	Блавест Белин	ж.к. Младост-1А бл.560	Approved	12.02 10:00 - 13:00	10.46
1257	111003	Ана Павлова	ж.к. Красно село бл.200	Approved	12.02 10:00 - 13:00	6.07
1256	111004	Блавест Белин	ж.к. Младост-1А бл.560	Cancelled	12.02 10:00 - 13:00	10.46
1255	111003	Ана Павлова	ж.к. Красно село бл.200	Cancelled	12.02 10:00 - 13:00	6.07
1254	111002	Виктор Ерменков	ул. „Света гора“ 35, 1164 ж.к. „Света гора“, София, България	Cancelled	12.02 10:00 - 13:00	6.11

**Package #1237**

10.69 BGN

(XL) Package #1237 Delivered

Picking up  
30 Nov 2020, 09:01:00 - 30 Nov 2020, 09:01:00

Box/Envelope: Recycled

Contents: sdtg

<b>Pick Up</b>	<b>Drop Off</b>
<p><b>Pick Up Address</b> ул. „Лерин“ 12, 1612 Жилушума, София, България ap 1</p> <p><b>Sender/Company</b> Виктор Ерменков</p> <p><b>Phone</b> +359876551107</p> <p><b>Pay on Delivery Amount</b> 0.00</p>	<p><b>Drop Off Address</b> ул. „Пирин“ 38, ж.к. Манастирски нивади, София, България asdfasdf</p> <p><b>Receiver/Company</b> Kiril Gilgarov</p> <p><b>Phone</b> +359234345345645</p> <p><b>Proof of Delivery PIN</b> 5326</p>

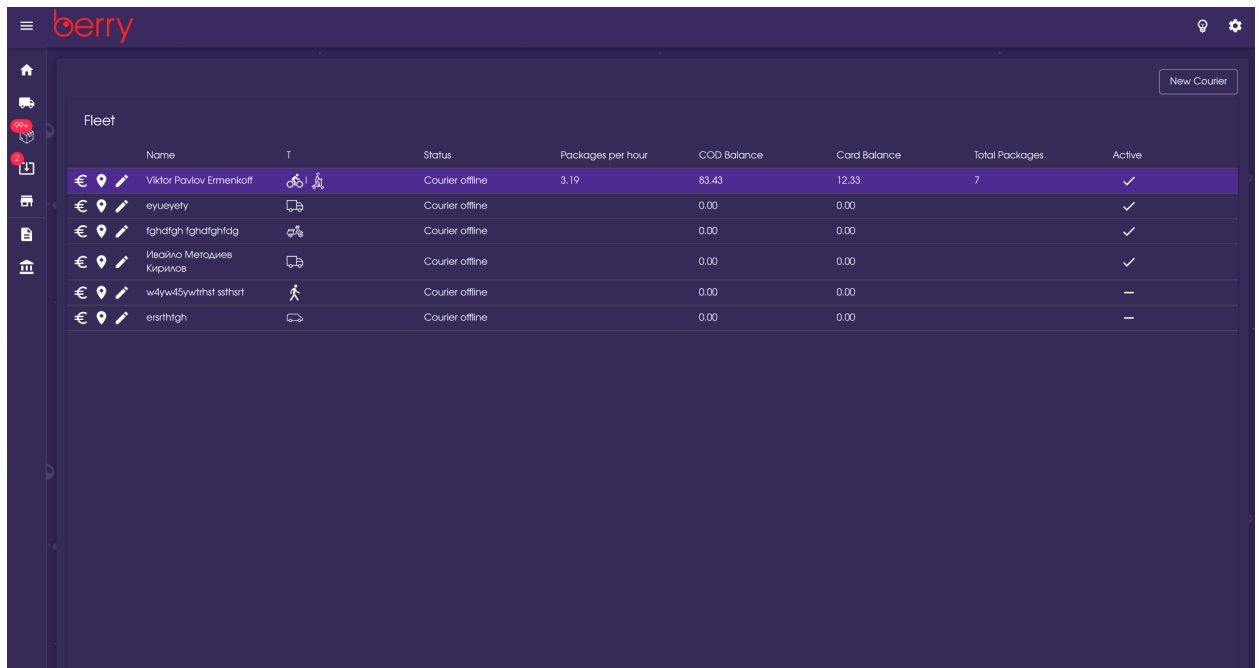
Create Reverse Create Similar Close

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

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

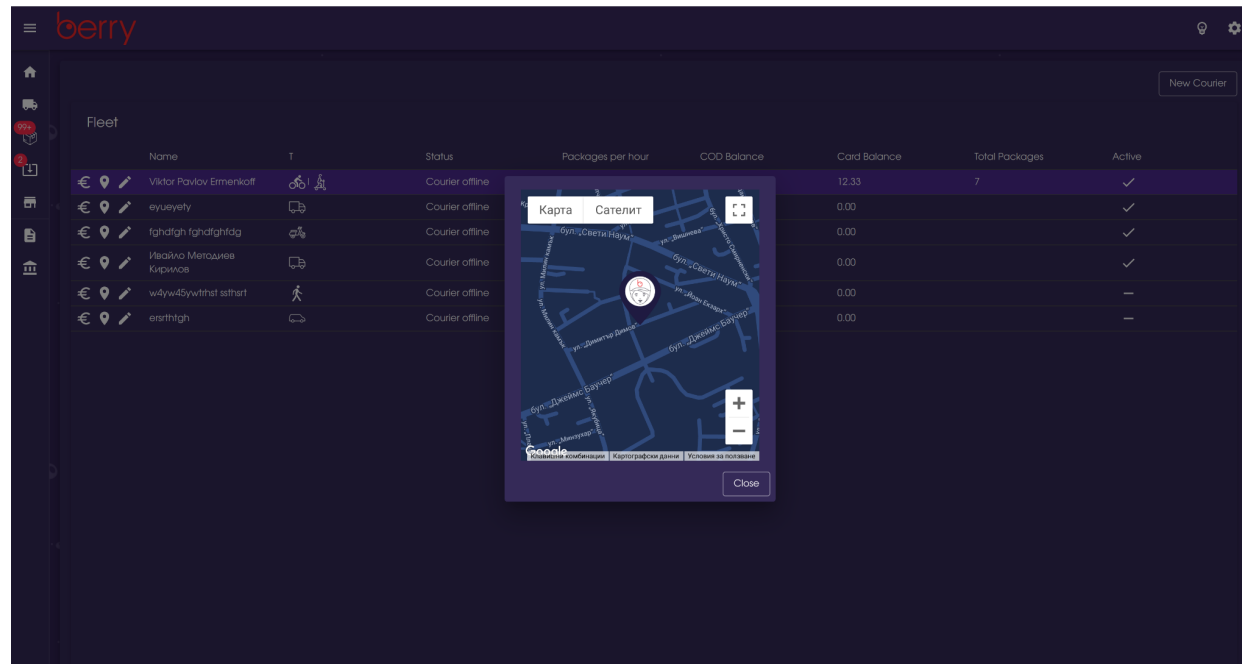
### 3. Fleet view (screenshots from development version)



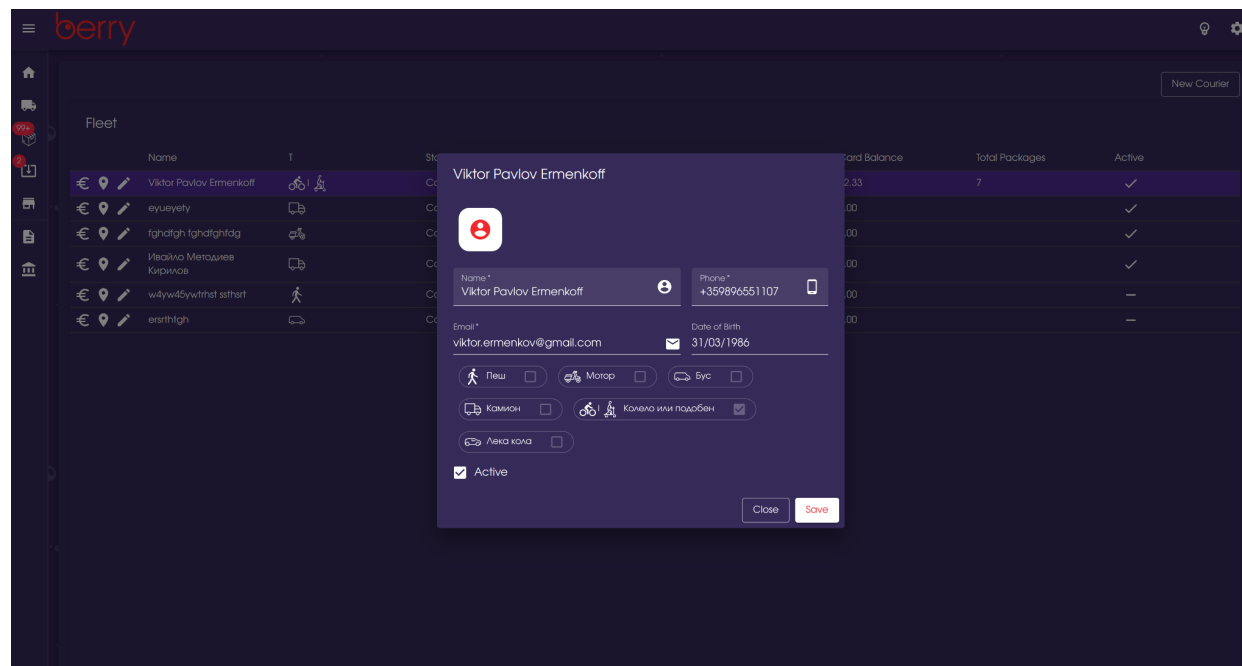
	Name	T	Status	Packages per hour	COD Balance	Card Balance	Total Packages	Active
€	Viktor Pavlov Ermenko	🚲	Courier offline	3.19	83.43	12.33	7	✓
€	eyueyely	🚚	Courier offline	0.00	0.00			✓
€	fghdgh fghdghdgh	🚲	Courier offline	0.00	0.00			✓
€	Иванов Меравее Корпков	🚚	Courier offline	0.00	0.00			✓
€	w4yw45yw4thst ssthat	🚶	Courier offline	0.00	0.00			—
€	ershtgh	🚚	Courier offline	0.00	0.00			—

- Courier live listing

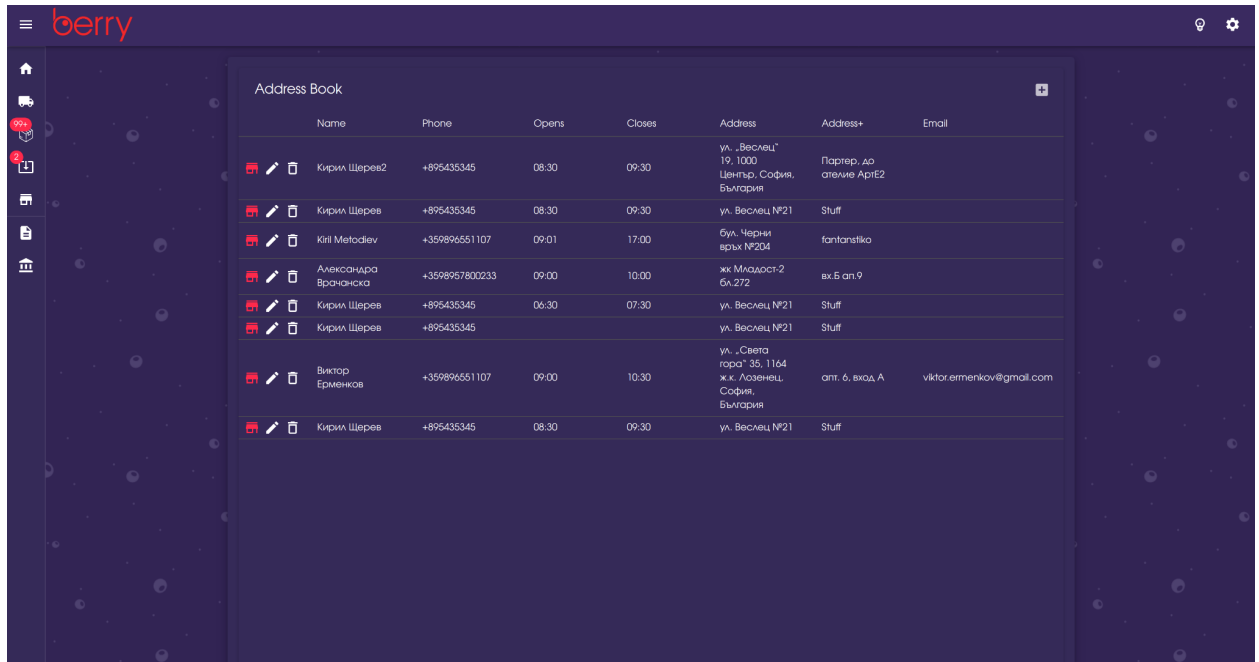
- Courier live tracking



















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



## 4. Address Book



















Name	Phone	Opens	Closes	Address	Address+	Email
  Кирил Щерев2	+895435345	08:30	09:30	ул. „Веслец“ 19, 1000 Център, София, България	Партер, до апартам. АриЕ2	
  Кирил Щерев	+895435345	08:30	09:30	ул. Веслец №21	Stuff	
  Kiril Metodiev	+359896551107	09:01	17:00	бул. Черни връх №204	fantastika	
  Александра Врананска	+3598957800233	09:00	10:00	жк Младост-2 6х272	вх.Б ап.9	
  Кирил Щерев	+895435345	06:30	07:30	ул. Веслец №21	Stuff	
  Кирил Щерев	+895435345			ул. Веслец №21	Stuff	
  Виктор Ерменков	+359896551107	09:00	10:30	ул. „Света гора“ 35, 1164 жк „Лозенец“, София, България	апрт. 6, вход А	viktor.emenkov@gmail.com
  Кирил Щерев	+895435345	08:30	09:30	ул. Веслец №21	Stuff	

- List/Add/Edit/Delete Addresses/Depots















berry

Address Book

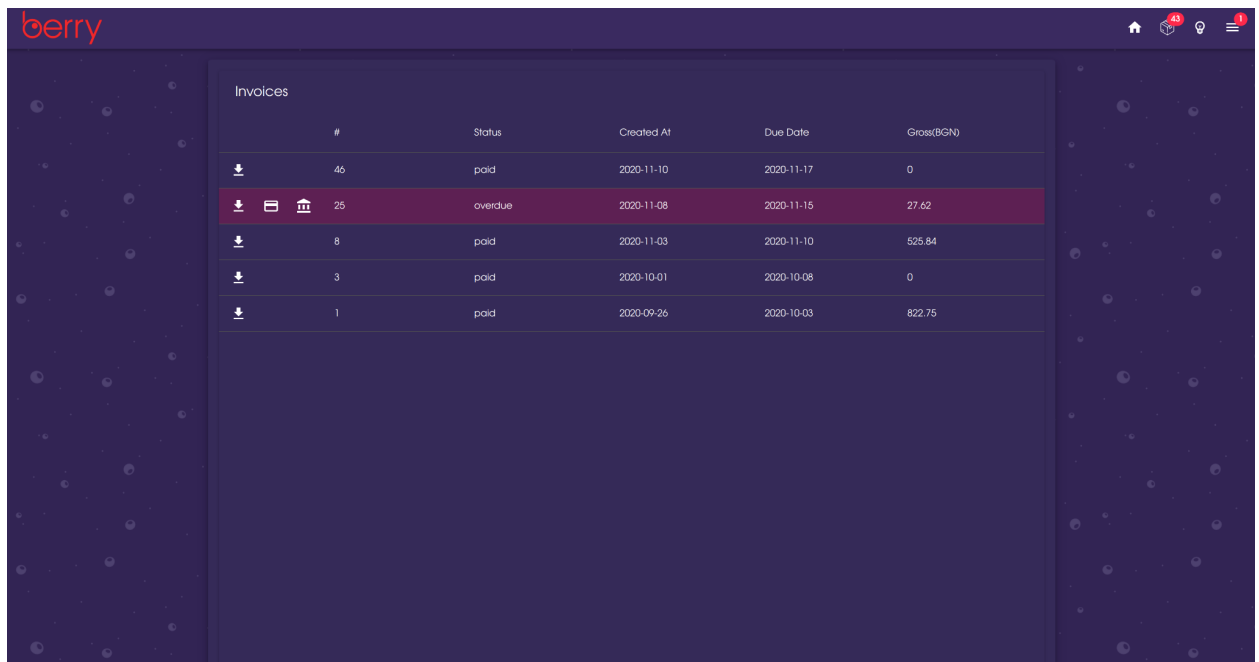
	Name	Phone	Opens	Closes	Address	Address+	Email
 	Кирил Щербаев	+8954353345	08:30	09:30	ул. "Веселый" 19, 1000 Центр, София, България	Партер, до стаята АР12	
 	Кирил Щербаев	+8954353345	08:30	09:30	ул. Веселу №21	Stuff	
 	Kali Metodiev	+359896551107	09:01	17:00	Бул. "Марни РДМ" №204	fantastika	
 	Александра Вранонска	+3598957800233	09:00	10:00	жк Младост-2 бул.272	ex.5 on 9	
 	Кирил Щербаев	+8954353345	06:30	07:30	ул. Веселу №21	Stuff	
 	Кирил Щербаев	+8954353345			ул. Веселу №21	Stuff	
 	Виктор Еремиков	+359896551107	09:00	10:30	ул. "Цвета рого" 35, 1104 жк. "Левелу", София, България	ant. 6, вход А	viktor.emenkov@gmail.com
 	Кирил Щербаев	+8954353345	08:30	09:30	ул. Веселу №21	Stuff	
✓ ✕	Name	Phone	Opens	Closes	Number + Street/Mail	Room/apartment/bld.	Email

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Address Book

	Name	Phone	Opens	Closes	Address	Address+	Email
 	Кирил Щербаев	+8954353345	08:30	09:30	ул. "Веселый" 19, 1000 Центр, София, България	Партер, до стаята АР12	
 	Кирил Щербаев	+8954353345	08:30	09:30	ул. Веселу №21	Stuff	
 	Kali Metodiev	+359896551107	09:01	17:00	Бул. "Марни РДМ" №204	fantastika	
 	Александра Вранонска	+3598957800233	09:00	10:00	жк Младост-2 бул.272	ex.5 on 9	
 	Кирил Щербаев	+8954353345	06:30	07:30	ул. Веселу №21	Stuff	
 	Кирил Щербаев	+8954353345			ул. Веселу №21	Stuff	
✓ ✕	Are you sure?						
 	Кирил Щербаев	+8954353345	08:30	09:30	ул. Веселу №21	Stuff	

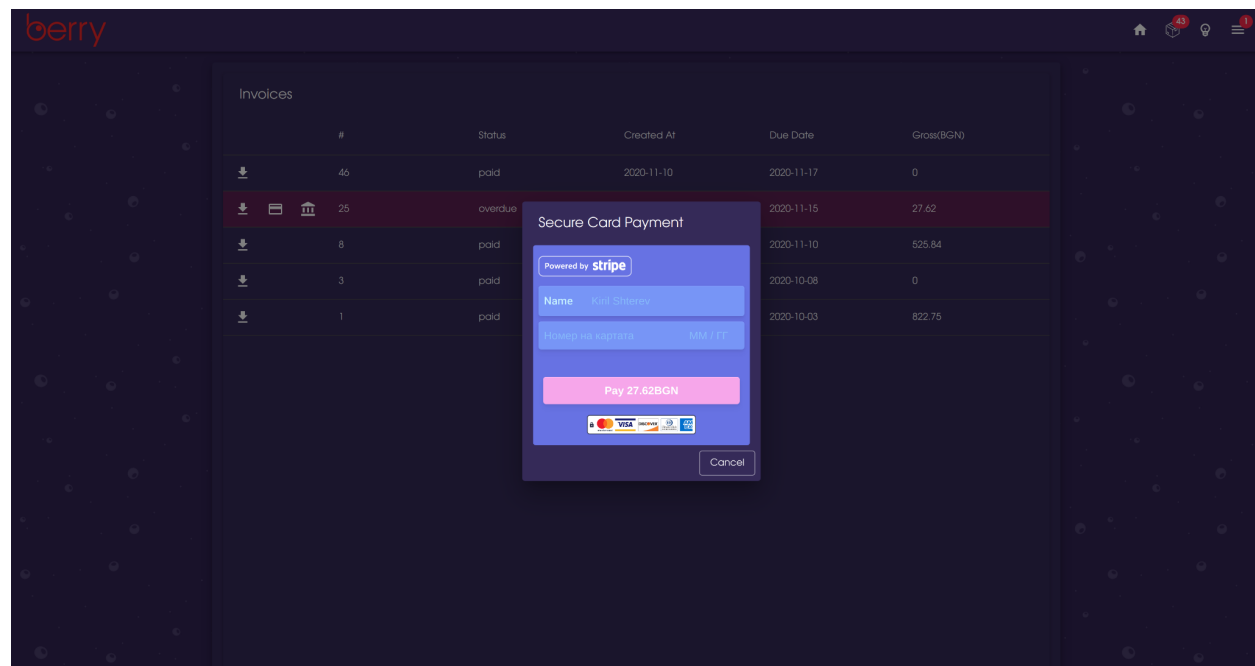
## 5. Invoices View



The screenshot shows the 'berry' application interface with the 'Invoices' view. A table lists several invoices with columns for ID, Status, Created At, Due Date, and Gross (BGN). The invoice with ID 25 is highlighted in red, indicating it is 'overdue'.

	#	Status	Created At	Due Date	Gross(BGN)
	46	paid	2020-11-10	2020-11-17	0
	25	overdue	2020-11-08	2020-11-15	27.62
	8	paid	2020-11-03	2020-11-10	525.84
	3	paid	2020-10-01	2020-10-08	0
	1	paid	2020-09-26	2020-10-03	822.75

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



The screenshot shows the same 'berry' application interface, but with a 'Secure Card Payment' modal open over the invoice table. The modal displays the Stripe logo, the name 'Karl Sherry', the amount '27.62BGN', and a 'Pay 27.62BGN' button. The background table shows the same list of invoices, with ID 25 still highlighted.

	#	Status	Created At	Due Date	Gross(BGN)
	46	paid	2020-11-10	2020-11-17	0
	25	overdue	2020-11-08	2020-11-15	27.62
	8	paid	2020-11-03	2020-11-10	525.84
	3	paid	2020-10-01	2020-10-08	0
	1	paid	2020-10-03	2020-10-03	822.75

- Pay by bank option



## 6. Pay on delivery balance view

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Balance Pay on Delivery Collections

Balance: 240.00 BGN

Transactions

ID	Amount(BGN)	Cashed Out
40	766.00	11/12/2020, 08:59

berry

Balance Pay on Delivery Collections

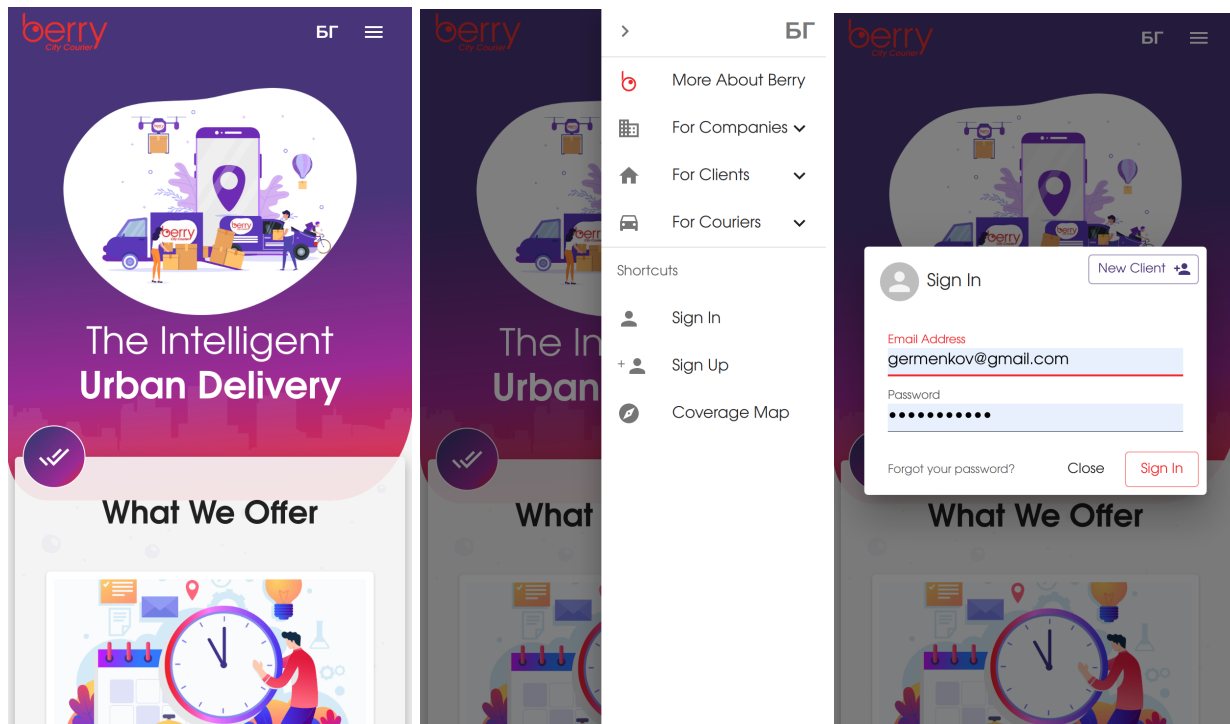
Pay on Delivery Collections

Package #	Reference ID	Name	Transaction	Amount(BGN)	Collected	Cashed Out
556		Georgi Ermenkov		100.00	13 Nov 2020, 15:13:23	No
558		Viktor		100.00	13 Nov 2020, 15:13:07	No
557		Viktor		40.00	13 Nov 2020, 15:12:59	No
1248		Kiril Gilgorov	40	123.00	11 Dec 2020, 08:57:14	11 Dec 2020, 08:59:14
1243		Методи Евангелиев	40	150.00	30 Nov 2020, 09:32:08	11 Dec 2020, 08:59:14
1242		Kiril Gilgorov	40	95.00	30 Nov 2020, 09:31:42	11 Dec 2020, 08:59:14
1241	2473	Виктор Ермаков	40	164.00	30 Nov 2020, 09:22:39	11 Dec 2020, 08:59:14
1240	2474	Виктор Ермаков	40	164.00	30 Nov 2020, 09:22:20	11 Dec 2020, 08:59:14
560		Виктор Ермаков	40	50.00	13 Nov 2020, 15:13:58	11 Dec 2020, 08:59:14
559		Виктор Ермаков	40	20.00	13 Nov 2020, 14:53:35	11 Dec 2020, 08:59:14

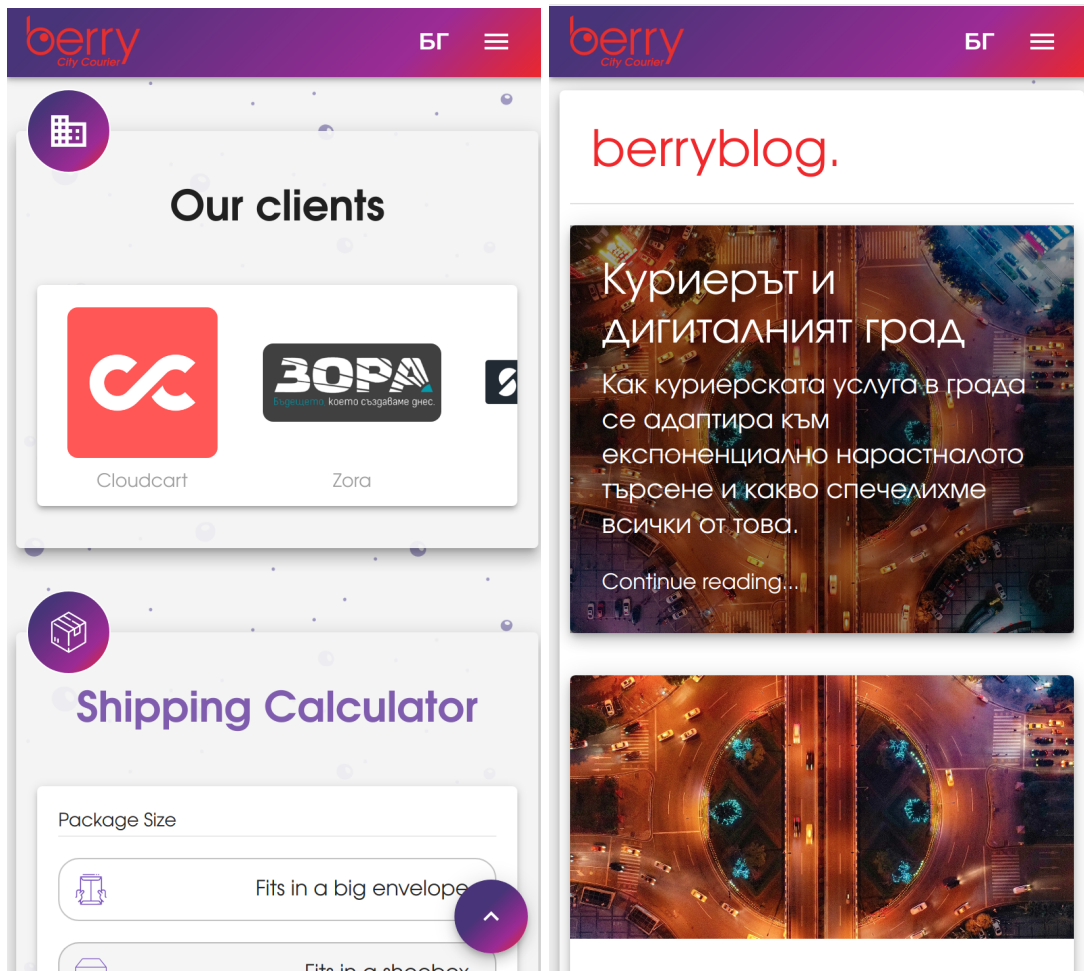
- Cash/Card collections by couriers

## II. Customer facing web-app

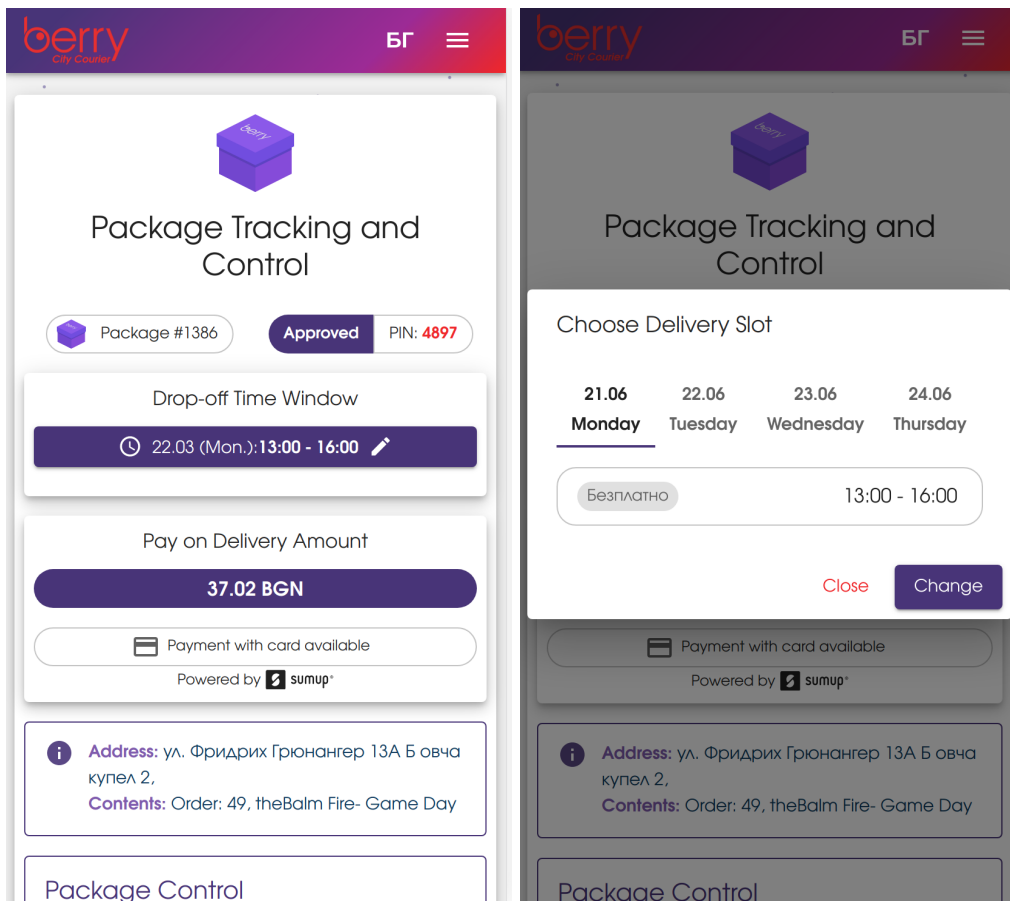
### 1. Website/Infosite

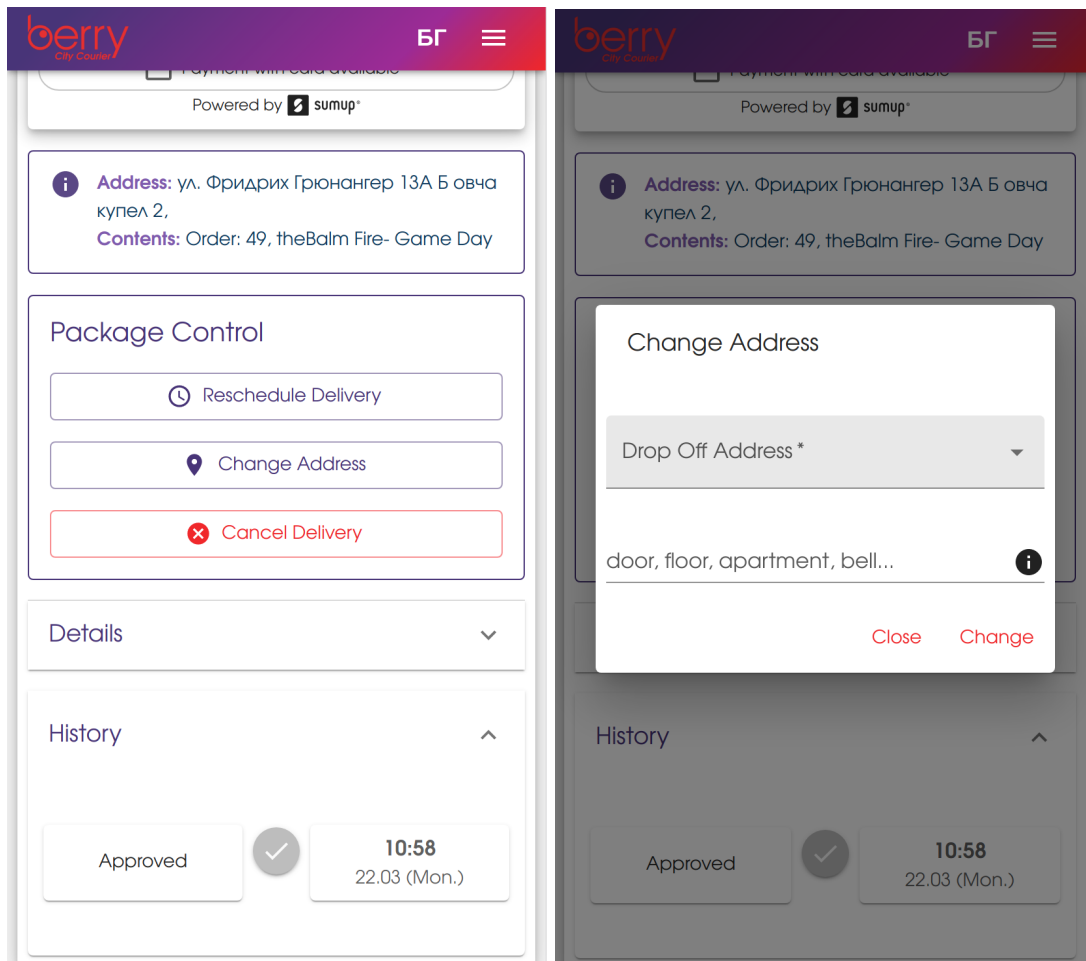


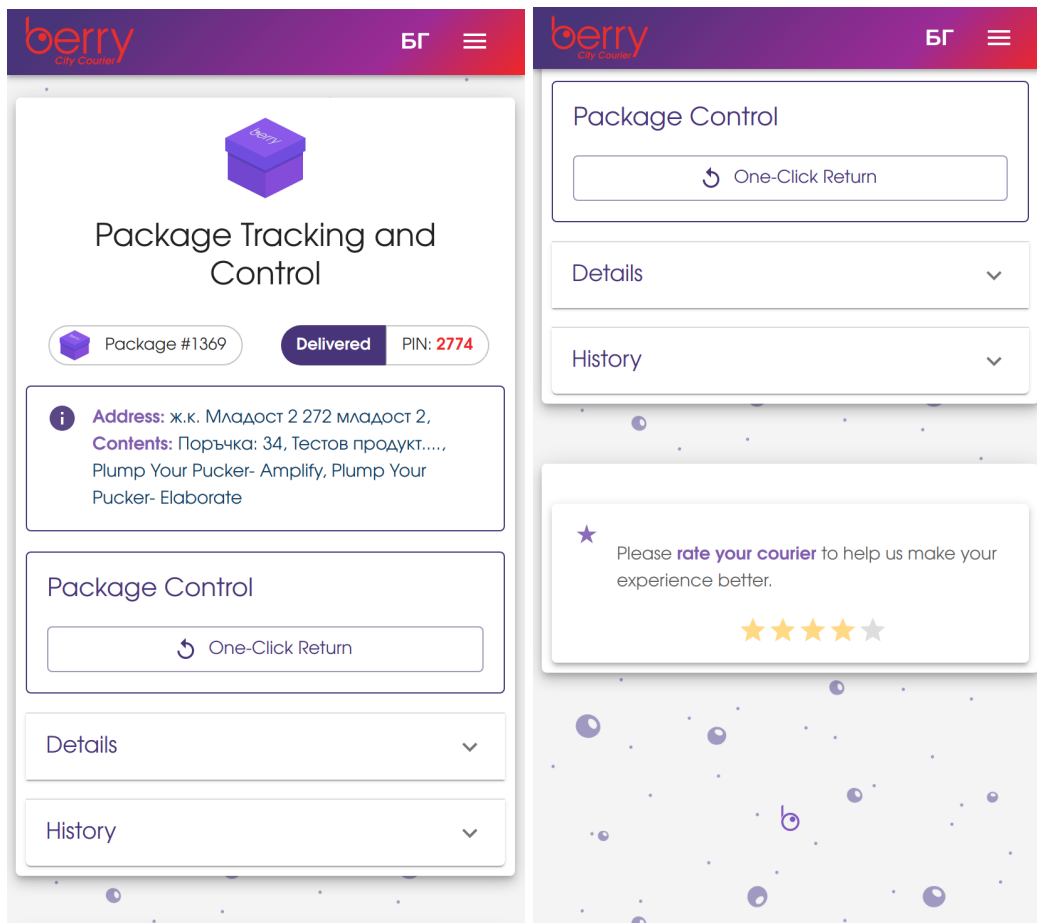
## 2. Blog/Press Pages



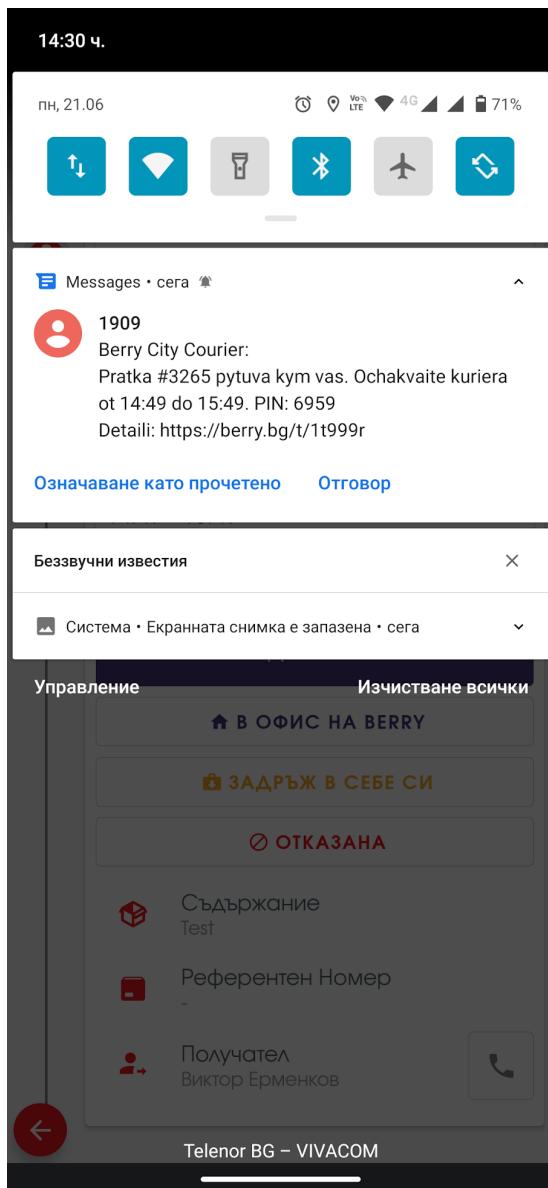
## 3. Package Tracking and Control Page







## 4. SMS Notification (screenshot in Bulgarian-Latin)

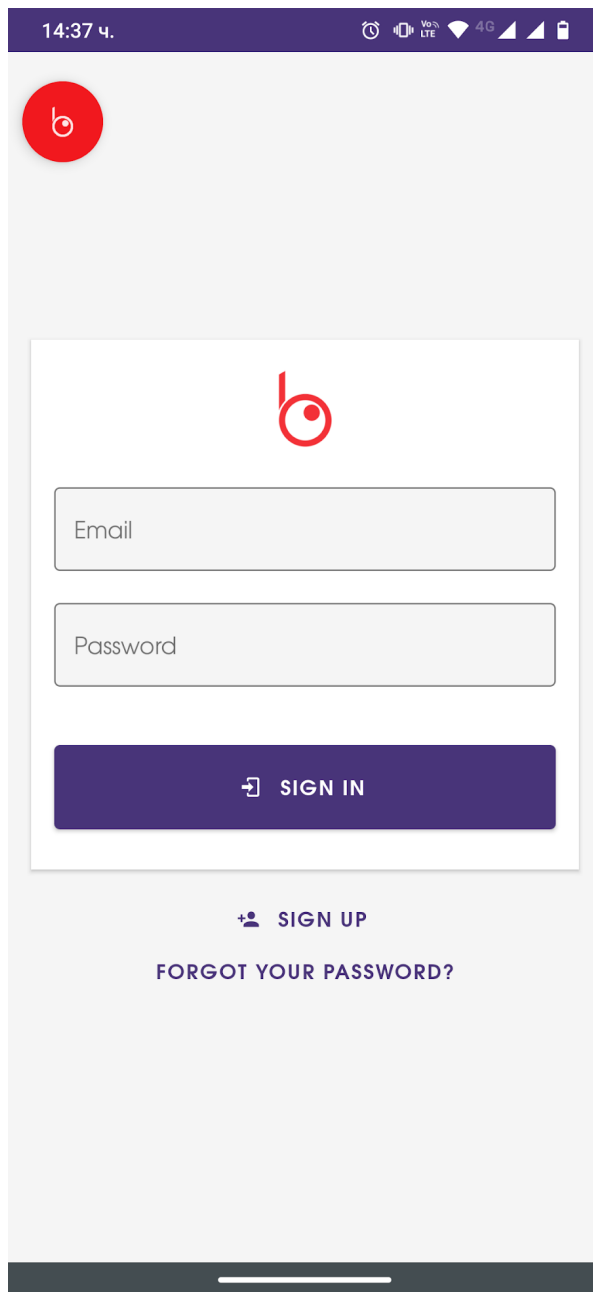




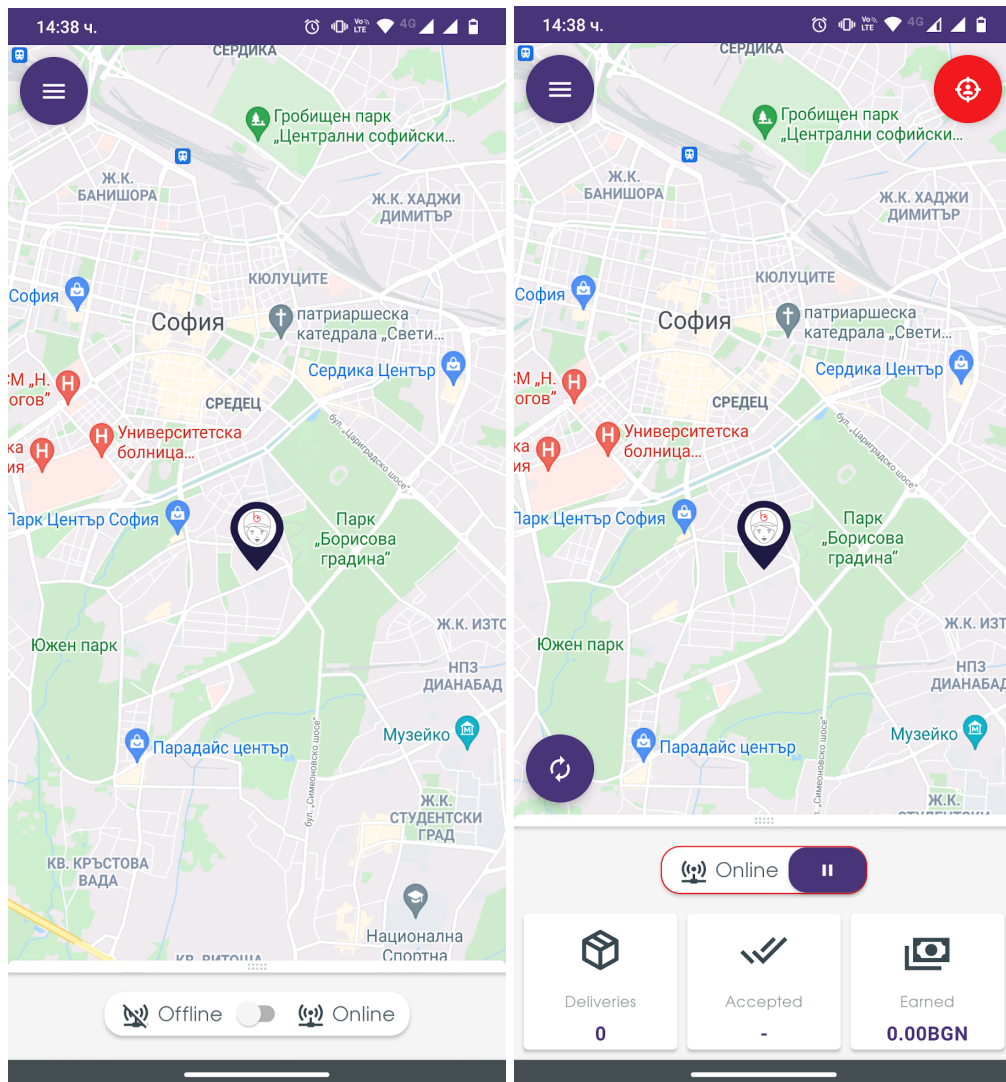
### III. Courier Android/iOS Apps

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

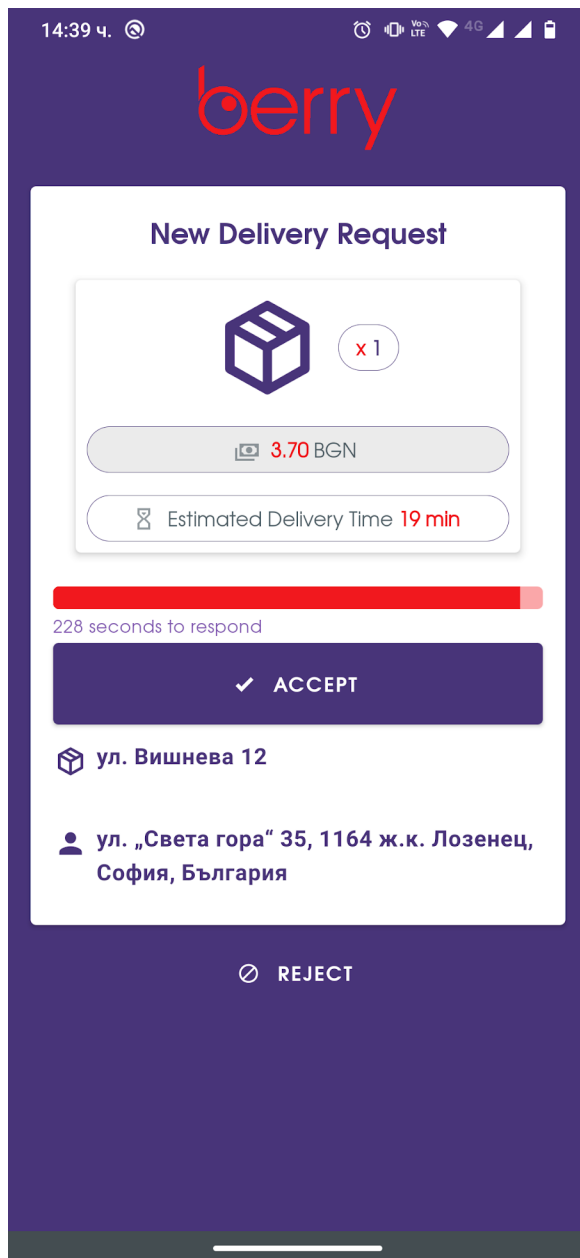


## 2. Stand-by screen Offline/Online/Paused

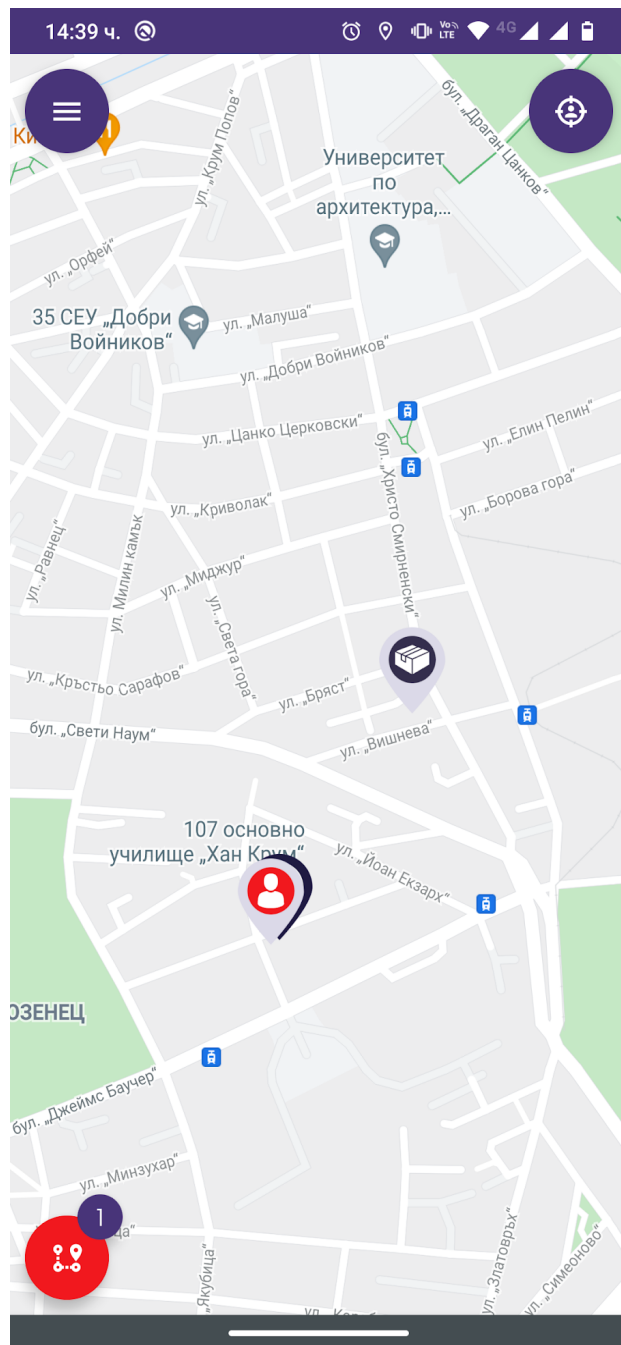




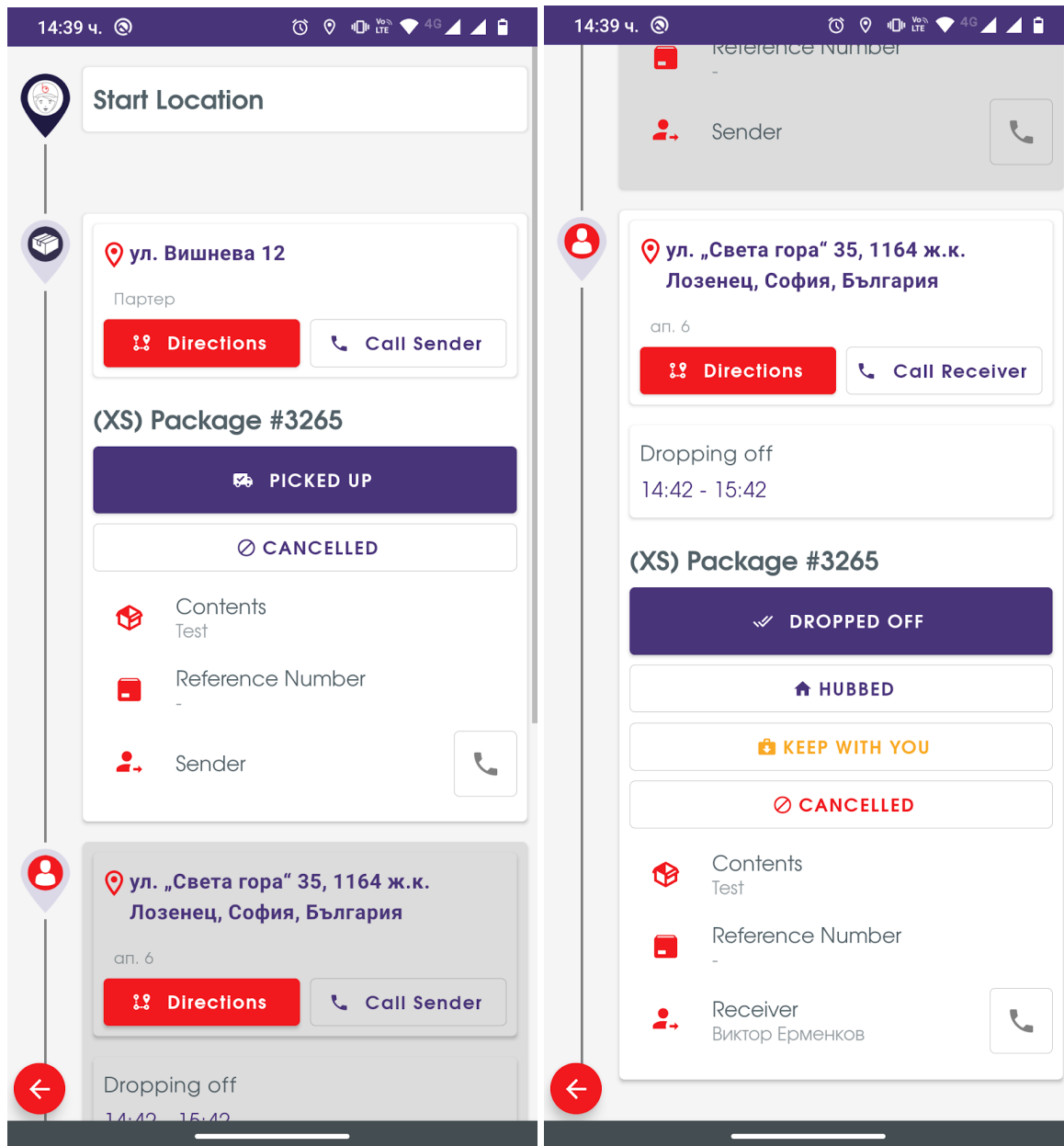
## 3. New delivery notification screen

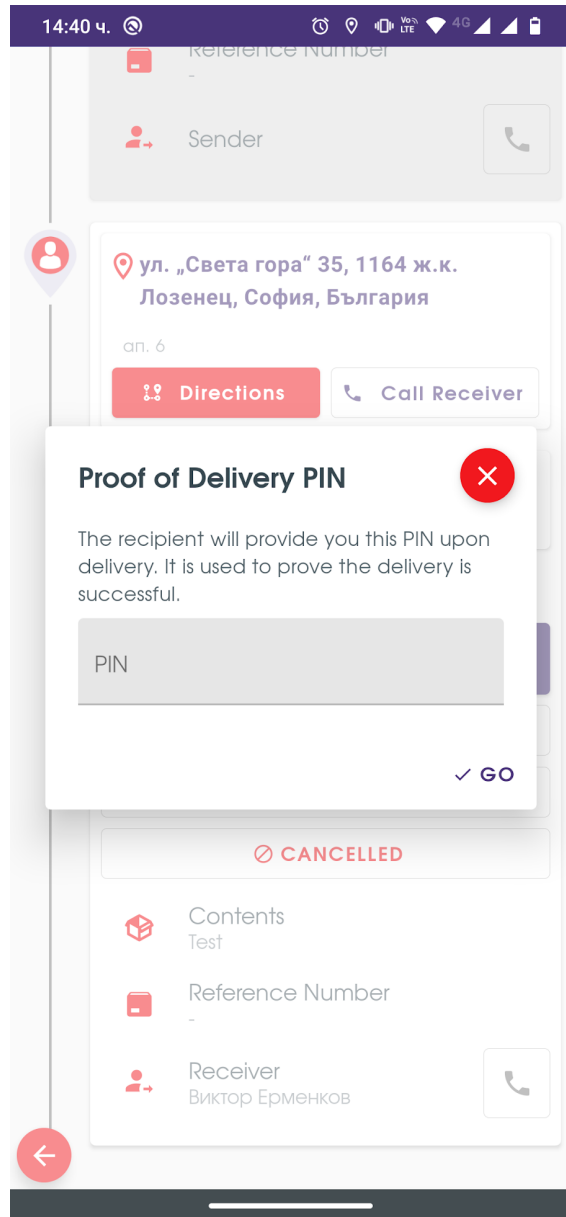


## 4. Active deliveries map view



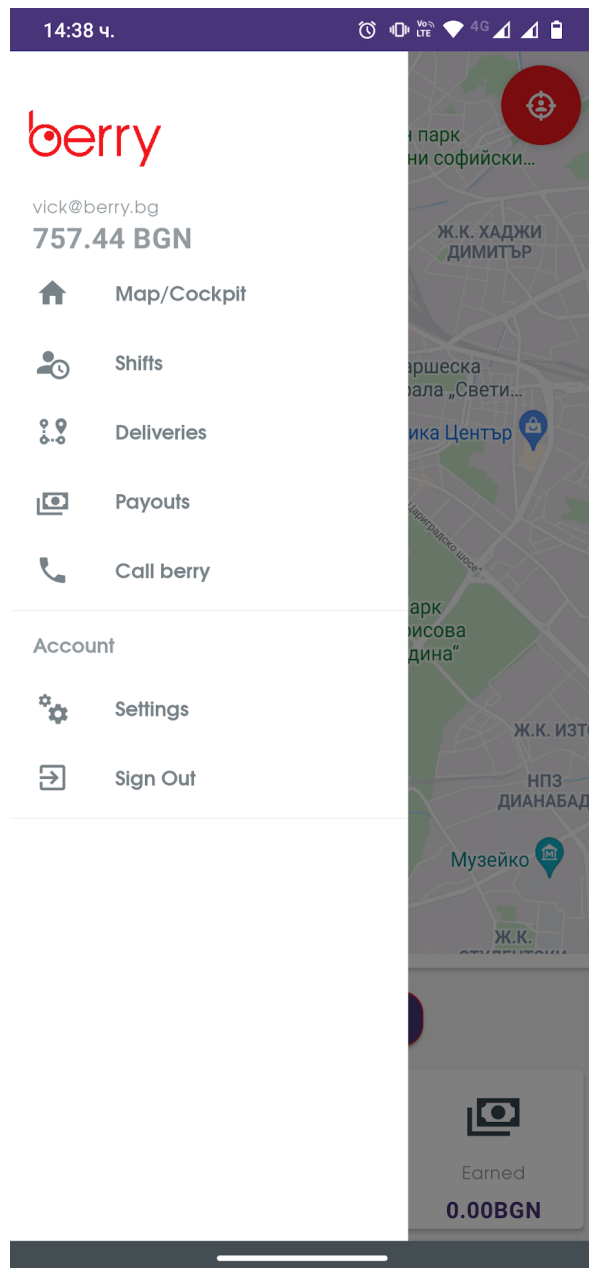
## 5. Active deliveries list view








## 6. Side menu



## 7. Shifts view

14:38 ч.



← Shifts

Start	End	
25.06 13:00	25.06 16:00	REQUEST
25.06 10:00	25.06 13:00	REQUEST
24.06 13:00	24.06 16:00	REQUEST
24.06 10:00	24.06 13:00	REQUEST
23.06 13:00	23.06 16:00	REQUEST
23.06 10:00	23.06 13:00	REQUEST
22.06 13:00	22.06 16:00	REQUEST
22.06 10:00	22.06 13:00	REQUEST
21.06 13:00	21.06 16:00	REQUEST

1/1 < >

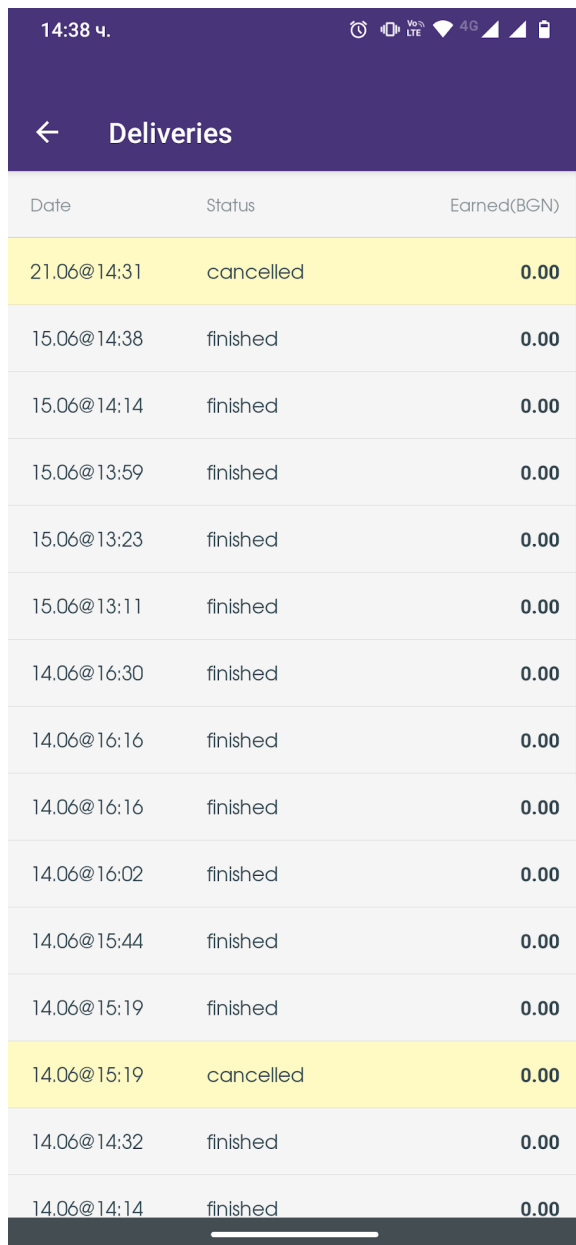
Процес на взимане на смени:



1. Заявка на смени

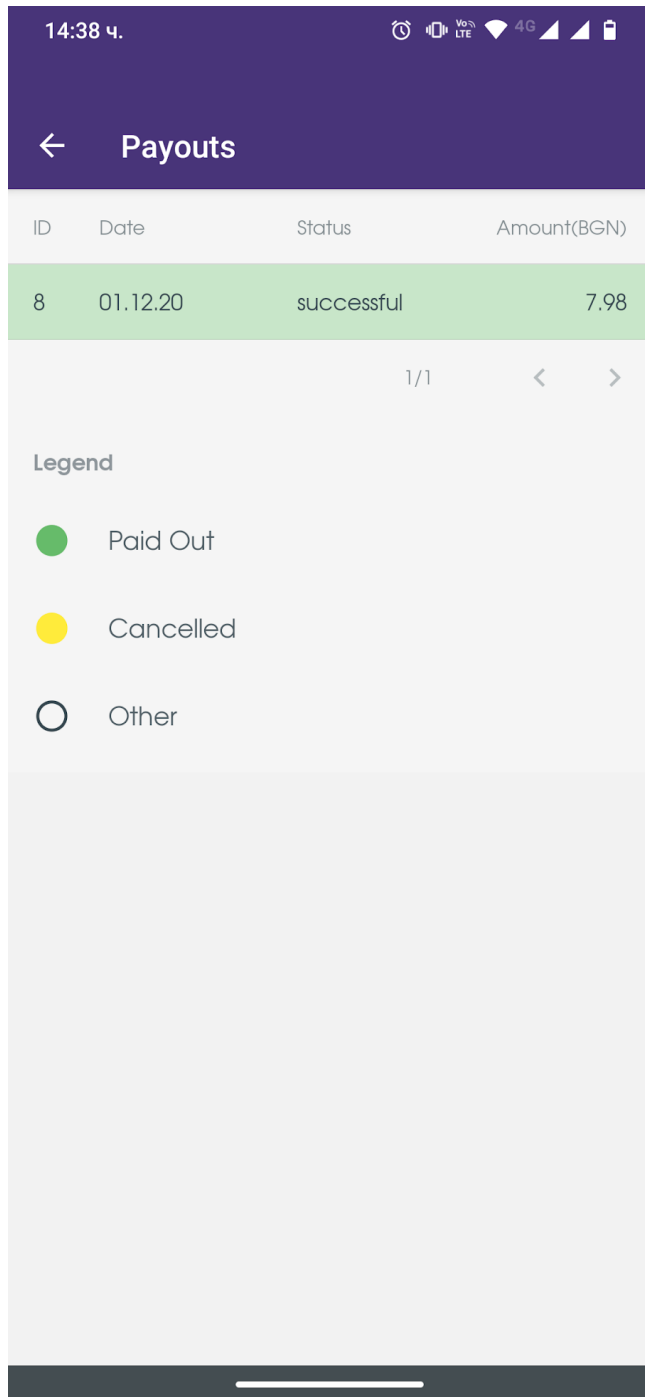
Всеки **четвъртък в 21:00** тук се появяват смените за следващата седмица. Трябва да заявиш удобни за теб смени с натискане на бутон "Заяви"

## 8. Delivery tours view



Date	Status	Earned(BGN)
21.06@14:31	cancelled	0.00
15.06@14:38	finished	0.00
15.06@14:14	finished	0.00
15.06@13:59	finished	0.00
15.06@13:23	finished	0.00
15.06@13:11	finished	0.00
14.06@16:30	finished	0.00
14.06@16:16	finished	0.00
14.06@16:16	finished	0.00
14.06@16:02	finished	0.00
14.06@15:44	finished	0.00
14.06@15:19	finished	0.00
14.06@15:19	cancelled	0.00
14.06@14:32	finished	0.00
14.06@14:14	finished	0.00

## 9. Payouts view



The screenshot shows a mobile application interface for viewing payouts. At the top, a dark purple header bar contains a back arrow and the title 'Payouts'. Above this, a status bar shows the time '14:38 ч.' and various system icons. Below the header is a table with four columns: 'ID', 'Date', 'Status', and 'Amount(BGN)'. A single row is visible with the values '8', '01.12.20', 'successful', and '7.98'. Below the table, there is a pagination indicator '1/1' and navigation arrows. A 'Legend' section follows, defining three status types: 'Paid Out' (green circle), 'Cancelled' (yellow circle), and 'Other' (white circle). The bottom of the screen shows a dark home indicator bar.

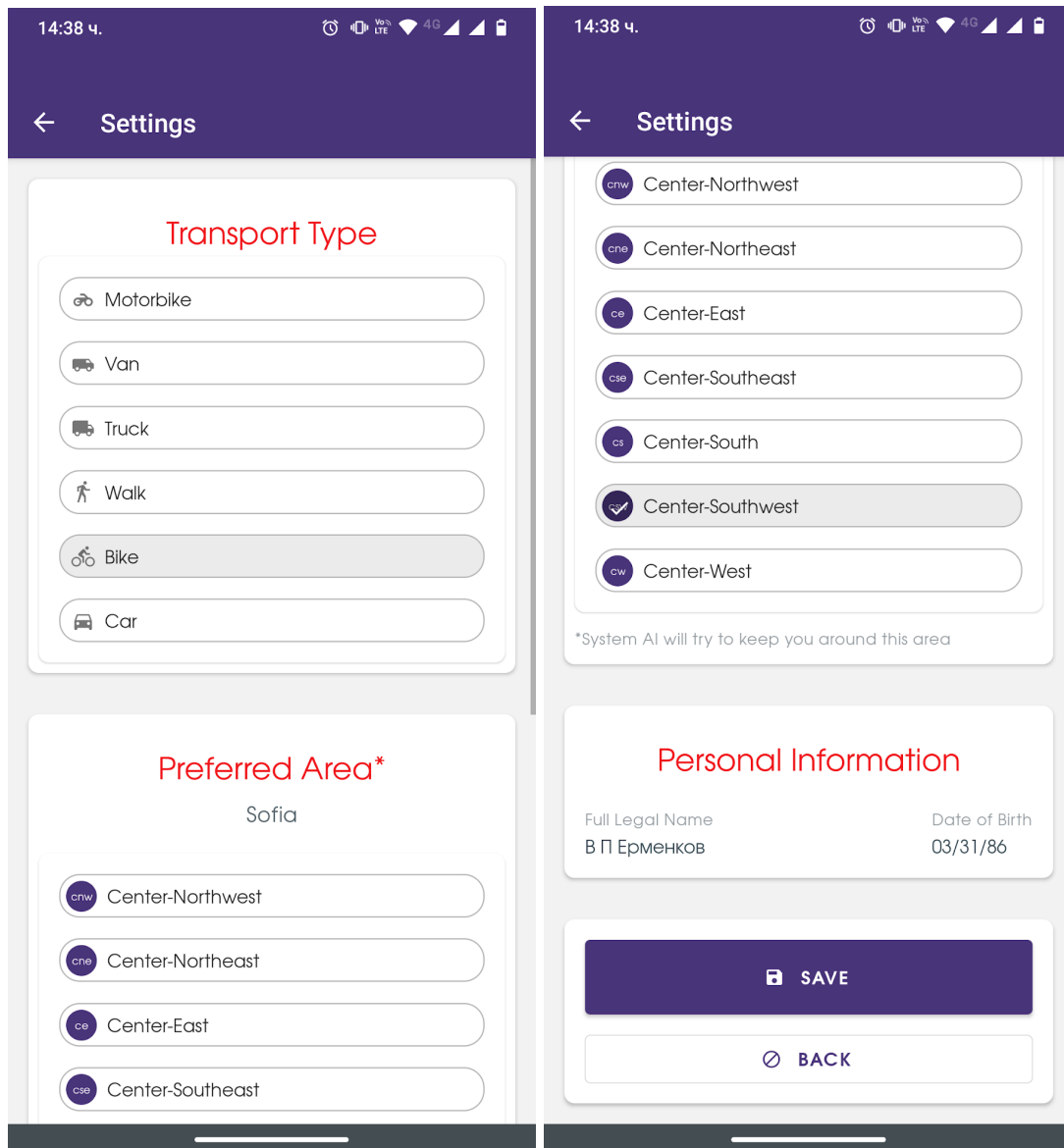
ID	Date	Status	Amount(BGN)
8	01.12.20	successful	7.98

1/1 < >

**Legend**

- Paid Out
- Cancelled
- Other

## 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

