

A simple pet project for an electronics store using Spring Boot. This project is an example and simple implementation in Spring Boot.

Technologies used: Spring, Spring Data, Spring Security, Spring Boot, Postgre SQL.

The settings for connecting to the database are stored in a file application.properties

```
server.port=8080
spring.datasource.url=jdbc:postgresql://127.0.0.1:5432/StoreDB
spring.datasource.username=postgres
spring.datasource.password=user1234
```

These settings need to be changed according to your database. The port can be left unchanged. If an application launch error occurs due to a busy port, change this parameter to another (for example, 8081 and so on). To create a Postgre SQL database and tables, write the following queries in the console or pgAdmin4 program:

**1. CREATE DATABASE "StoreDB"**

```
WITH
OWNER = postgres
ENCODING = 'UTF8'
LC_COLLATE = 'Belarusian_Belarus.1251'
LC_CTYPE = 'Belarusian_Belarus.1251'
TABLESPACE = pg_default
CONNECTION LIMIT = -1;
```

**2. CREATE TABLE public.baskets**

```
(
    id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1
    MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),
    CONSTRAINT baskets_pkey PRIMARY KEY (id)
)
TABLESPACE pg_default;
ALTER TABLE public.baskets
    OWNER to postgres;
```

**3. CREATE TABLE public.categories**

```
(
    id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1
    MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),
    name character varying(50) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT categorys_pkey PRIMARY KEY (id)
)
TABLESPACE pg_default;
ALTER TABLE public.categories
```

OWNER to postgres;

**4. CREATE TABLE public.delivery\_types**

```
(
    id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1
MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),
    type_name character varying(30) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT delivery_types_pkey PRIMARY KEY (id)
)
```

TABLESPACE pg\_default;

ALTER TABLE public.delivery\_types

OWNER to postgres;

**5. CREATE TABLE public.goods**

```
(
    id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1
MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),
    price numeric(20,15) NOT NULL,
    number_of_available integer NOT NULL,
    description character varying(200) COLLATE pg_catalog."default",
    name character varying(100) COLLATE pg_catalog."default" NOT NULL,
    category integer,
    manufacturer integer,
    CONSTRAINT "Goods_pkey" PRIMARY KEY (id),
    CONSTRAINT fk_goods_categorys FOREIGN KEY (category)
REFERENCES public.categories (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE NO ACTION,
    CONSTRAINT fk_goods_manufacturers FOREIGN KEY (manufacturer)
REFERENCES public.manufacturers (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE NO ACTION
)
```

TABLESPACE pg\_default;

ALTER TABLE public.goods

OWNER to postgres;

**6. CREATE TABLE public.goods\_baskets**

```
(
```

```

good_id integer NOT NULL,
basket_id integer NOT NULL,
quantity integer NOT NULL,
CONSTRAINT goods_baskets_pkey PRIMARY KEY (good_id, basket_id),
CONSTRAINT fk_goods_baskets_basket FOREIGN KEY (basket_id)
    REFERENCES public.baskets (id) MATCH SIMPLE
    ON UPDATE NO ACTION
    ON DELETE NO ACTION,
CONSTRAINT fk_goods_baskets_good FOREIGN KEY (good_id)
    REFERENCES public.goods (id) MATCH SIMPLE
    ON UPDATE NO ACTION
    ON DELETE NO ACTION
)
TABLESPACE pg_default;
ALTER TABLE public.goods_baskets
    OWNER to postgres;

```

## 7. CREATE TABLE public.goods\_orders

```

(
    good_id integer NOT NULL,
    order_id integer NOT NULL,
    quantity integer NOT NULL,
    price_for_one numeric(20,15) NOT NULL,
    CONSTRAINT goods_orders_pkey PRIMARY KEY (good_id, order_id),
    CONSTRAINT fk_goods_orders_good FOREIGN KEY (good_id)
        REFERENCES public.goods (id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT fk_goods_orders_order FOREIGN KEY (order_id)
        REFERENCES public.orders (id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
)
TABLESPACE pg_default;
ALTER TABLE public.goods_orders
    OWNER to postgres;

```

**8. CREATE TABLE public.manufacturers**

```
(
    id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1
MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),
    name character varying(30) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT manufacturers_pkey PRIMARY KEY (id)
)
TABLESPACE pg_default;
ALTER TABLE public.manufacturers
    OWNER to postgres;
```

**9. CREATE TABLE public.orders**

```
(
    id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1
MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),
    order_date_time timestamp with time zone NOT NULL,
    user_id integer NOT NULL,
    status integer NOT NULL,
    type_of_delivery integer NOT NULL,
    type_of_payment integer NOT NULL,
    total_price numeric(20,15) NOT NULL,
    CONSTRAINT orders_pkey PRIMARY KEY (id),
    CONSTRAINT fk_order_delivery_type FOREIGN KEY (type_of_delivery)
        REFERENCES public.delivery_types (id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT fk_order_payment_type FOREIGN KEY (type_of_payment)
        REFERENCES public.payment_types (id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT fk_order_status FOREIGN KEY (status)
        REFERENCES public.statuses (id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT fk_order_user FOREIGN KEY (user_id)
        REFERENCES public.users (id) MATCH SIMPLE
        ON UPDATE NO ACTION
```

ON DELETE NO ACTION

)

TABLESPACE pg\_default;

ALTER TABLE public.orders

OWNER to postgres;

**10. CREATE TABLE public.payment\_types**

(

id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1  
MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

type\_name character varying(20) COLLATE pg\_catalog."default" NOT NULL,

CONSTRAINT payment\_types\_pkey PRIMARY KEY (id)

)

TABLESPACE pg\_default;

ALTER TABLE public.payment\_types

OWNER to postgres;

**11. CREATE TABLE public.roles**

(

roles\_id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1  
START 1 MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

user\_role character varying(20) COLLATE pg\_catalog."default" NOT NULL,

CONSTRAINT roles\_pkey PRIMARY KEY (roles\_id)

)

TABLESPACE pg\_default;

ALTER TABLE public.roles

OWNER to postgres;

**12. CREATE TABLE public.statuses**

(

id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1  
MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),

status\_name character varying(30) COLLATE pg\_catalog."default" NOT NULL,

CONSTRAINT statuses\_pkey PRIMARY KEY (id)

)

TABLESPACE pg\_default;

ALTER TABLE public.statuses

OWNER to postgres;

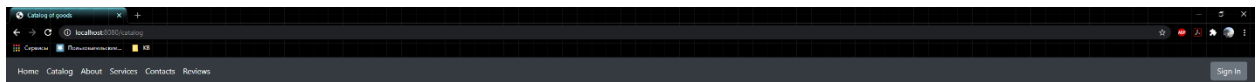
**13. CREATE TABLE public.users**

```

(
    login character varying(20) COLLATE pg_catalog."default" NOT NULL,
    email character varying(100) COLLATE pg_catalog."default" NOT NULL,
    password character varying(60) COLLATE pg_catalog."default" NOT NULL,
    name character varying(20) COLLATE pg_catalog."default",
    surname character varying(20) COLLATE pg_catalog."default",
    tel character varying(13) COLLATE pg_catalog."default",
    is_active boolean NOT NULL,
    role integer NOT NULL,
    id integer NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1 START 1
MINVALUE 1 MAXVALUE 2147483647 CACHE 1 ),
    basket integer NOT NULL,
    CONSTRAINT users_pkey PRIMARY KEY (id),
    CONSTRAINT fk_roles_users FOREIGN KEY (role)
        REFERENCES public.roles (roles_id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT fk_user_basket FOREIGN KEY (basket)
        REFERENCES public.baskets (id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
    NOT VALID
)
TABLESPACE pg_default;
ALTER TABLE public.users
    OWNER to postgres;

```

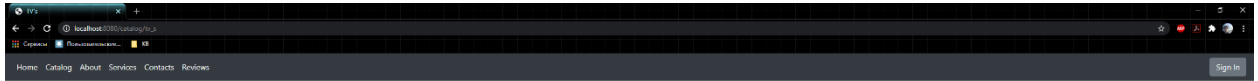
## Examples of what the application looks like





Catalog of mobile phones

Смартфон Xiaomi Mi Note 10 Lite 8GB/128GB универсальный телефон (белый)  
Смартфон Sony Xperia 1 II XQ-A122 8GB/256GB (белый)  
Смартфон Google Pixel 5 8GB/128GB универсальный телефон (зеленый)  
Смартфон Samsung Galaxy A31 5M-A315F/DS 4GB/128GB (серый)  
Смартфон Apple iPhone 11 64GB (черный)



Catalog of tv's

Телевизор Sony KD-55048096  
Телевизор Samsung UE50TU7100U  
Телевизор LG 48UH6000LA  
Телевизор LG 55UH73006A

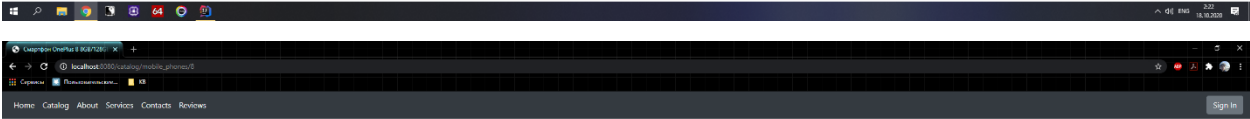






Catalog of cameras

There are no products in this category yet



Смартфон OnePlus 8 8GB/128GB европейская версия (зеленый)

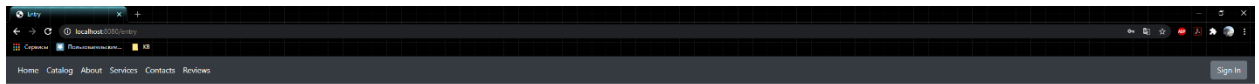
Android, экран 6.55" AMOLED (1080x2400), Qualcomm Snapdragon 865, ОЗУ 8 Гб, флэш-память 128 Гб, камера 48 Мп, аккумулятор 4300 мАч, 2 SIM

Available for order 5

Price: 790 USD

To add a product to the cart, please log in.





### Entry:

Login:

Password:

[New user registration](#)



### New user registration:

Fields marked with \* are required:

Login \*:

Email \*:

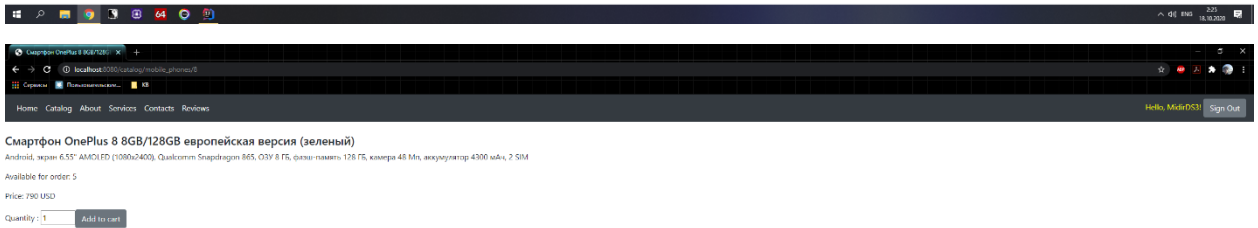
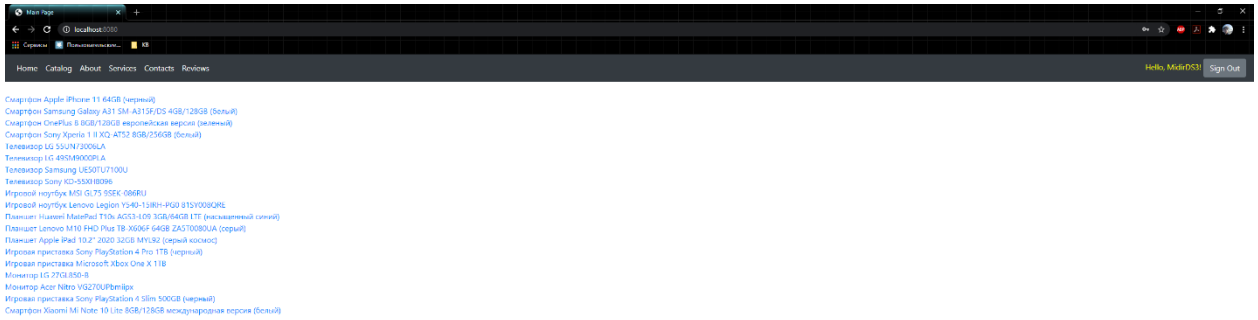
Password \*:

Name:

Surname:

Tel.:





My cart

Name of good	Available quantity	Current quantity	Price
Розроб. чортити. Lenovo Legion Y450-13IRH-82G 8151V02AC2E	2	1	1420
Common price:1420.000 USD			

Clear cart

Choose delivery type: | Counter delivery

Choose payment type: | Cash payment

Order now

User menu

- My cart
- My orders

## My orders

Order date and time: 2020-10-15 03:09:48.044

Delivery type: Pickup

Payment type: Cash payment

Order status: Processing

Total price: 925 USD

Name of good	Current quantity	Price
<a href="#">Iqeevvoop LG 23UM73006LA</a>	1	415
<a href="#">Traumagen Huawei MatePad T10s A0251-109 8GB/64GB (LTE) (86044296048) (new)</a>	1	210
<a href="#">Hepoxee (reprocessed Sony PlayStation 4 Slim 500GB) (reprocessed)</a>	1	300

Order date and time: 2020-10-15 03:05:31.988

Delivery type: Pickup

Payment type: Cash payment

Order status: Processing

Total price: 424 USD

Name of good	Current quantity	Price
<a href="#">Changpbow Samsung Galaxy A31 331 A2137/DS 4GB/128GB (new)</a>	2	474

## Admin menu

- My cart
- My orders
- Add good to catalog
- Moderate users

new good to catalog

localhost:3000/new\_good\_to\_catalog

Capexco | Resources | Home | 68

Home | Catalog | About | Services | Contacts | Reviews

Hello, Admin123! | Sign Out

Add good to catalog:

Fields marked with \* are required!

Name \*:  (Max size 100 symbols)

Description \*:  (Max size 200 symbols)

Number of available \*:

Price \*:  (USD)

Choose category \*: 

mobile\_phones  
tablets  
tv's  
gaming\_consoles  
monitors

Choose manufacturer \*: 

Apple  
Samsung  
Huawei  
OraPlus

Add good!

Microsoft Windows

localhost:3000/new\_users

Capexco | Resources | Home | 64

Home | Catalog | About | Services | Contacts | Reviews

Hello, Admin123! | Sign Out

All users

Taktomyh
Admin123
MADG23

Microsoft Windows

localhost:3000/new\_users

Capexco | Resources | Home | 64

Home | Catalog | About | Services | Contacts | Reviews

Hello, Admin123! | Sign Out

All users

Taktomyh
Admin123
MADG23

User info

User id: 11

User login: MidirDS3

Current user is active: true

Current user role: user

Choose variant: 

Unblock

Choose variant: 

user

Save

admin