	Министерство науки и высшего образования Российской Федерации **Федеральное государственное бюджетное образовательное учреждение высшего образования** **«Московский государственный технический университет имени Н.Э. Баумана** **(национальный исследовательский университет)» (МГТУ им. Н.Э. Баумана)**

ФАКУЛЬТЕТ ИНФОРМАТИКА И СИСТЕМЫ УПРАВЛЕНИЯ

КАФЕДРА СИСТЕМЫ ОБРАБОТКИ ИНФОРМАЦИИ И УПРАВЛЕНИЯ

Отчет по домашнему заданию

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Задание:

Необходимо доработать ваше приложение из лабораторной работы №7 или №8. Необходимо решить следующие задачи:

Модифицировать базу данных:

- База данных должна содержать основную таблицу (например, "акции") и вторую таблицу (например, "компания акции").
- Основная таблица ссылается через внешний ключ на вторую таблицу.

Доработать веб-сервис:

- Добавить в веб-сервис новый метод получения списка значений из второй таблицы.
- Доработать фронтенд:
- Добавить на страницу с данными основной таблицы кнопки добавления, редактирования и удаления значений через API сервиса. Для добавления и редактирования использовать страницу отображения конкретного объекта.
- На всех страницах должны отображаться значения из таблиц вместо идентификаторов.

На странице отображения конкретного объекта необходимо использовать компонент combobox (выпадающий список). Необходимо использовать в этом компоненте новый метод веб-сервиса для второй таблицы.

Текст программы:

client/:

api/types/:

ManufacturerType.ts:

```
export type ManufacturerType = {
  pk: number;
  name: string;
  adress: string;
  email: string;
};
```

ProductType.ts:

```
import { ManufacturerType } from './ManufacturerType';

export type ProductType = {
  pk: number;
  name: string;
  price: number;
  weight: number;
  imgSrc: string;
  quantity: number;
  description?: string;
  id_manufacturer: number;
  manufacturer?: ManufacturerType;
};
```

api/product/:

addProduct.ts:

```
import { ProductType } from 'api/types';

export const addProduct = async (values: Partial<ProductType>) => {
  const body = new FormData();
  for (const [key, value] of Object.entries(values)) {
    body.append(key, value.toString());
  }
  const data = await fetch('http://127.0.0.1:8000/product/', {
```

```
    method: 'POST',
    body: body,
  });
  if (data.ok) {
    return true;
  } else {
    return false;
  }
};
```

getProductById.ts:

```
import { ProductType } from 'api/types';

export const getProductById = async (id: number) => {
  const data = await fetch(`http://127.0.0.1:8000/product/${id}`, {
    headers: {
      'Content-Type': 'json/application',
    },
  });
  if (data.ok) {
    const parsedData: ProductType = await data.json();
    return parsedData;
  } else {
    return undefined;
  }
};
```

getProducts.ts:

```
import { ProductType } from 'api/types';

export const getProducts = async () => {
  const data = await fetch('http://127.0.0.1:8000/product', {
    headers: {
      'Content-Type': 'json/application',
    },
  });
  if (data.ok) {
    const parsedData: ProductType[] = await data.json();
    return parsedData;
  } else {
    return undefined;
  }
};
```

removeProductById.ts:

```
export const removeProductById = async (id: number) => {
  const data = await fetch(`http://127.0.0.1:8000/product/${id}`, {
    method: 'DELETE',
    headers: {
      'Content-Type': 'json/application',
    },
  });
  if (data.ok) {
    return true;
  } else {
    return false;
  }
};
```

updateProductById.ts:

```
import { ProductType } from 'api/types';

export const updateProductById = async (
  id: number,
  values: Partial<ProductType>,
) => {
  const body = new FormData();
  for (const [key, value] of Object.entries(values)) {
    if (value) {
      body.append(key, value.toString());
    }
  }
  const data = await fetch(`http://127.0.0.1:8000/product/${id}`, {
    method: 'PUT',
    body: body,
  });
  if (data.ok) {
    return true;
  } else {
    return false;
  }
};
```

api/manufacturer/:

addManufacturer.ts

```ts
import { ManufacturerType } from 'api/types';

export const addManufacturer = async (values: Partial<ManufacturerType>) => {
  const body = new FormData();
  for (const [key, value] of Object.entries(values)) {
    body.append(key, value.toString());
  }
  const data = await fetch('http://127.0.0.1:8000/manufacturer/', {
    method: 'POST',
    body: body,
  });
  if (data.ok) {
    return true;
  } else {
    return false;
  }
};
```

getManufacturer.ts:

```ts
import { ManufacturerType } from 'api/types';

export const getManufacturer = async () => {
  const data = await fetch('http://127.0.0.1:8000/manufacturer', {
    headers: {
      'Content-Type': 'json/application',
    },
  });
  if (data.ok) {
    const parsedData: ManufacturerType[] = await data.json();
    return parsedData;
  } else {
    return undefined;
  }
};
```

getManufacturerById.ts:

```ts
import { ManufacturerType } from 'api/types';

export const getManufacturerById = async (id: number) => {
  const data = await fetch(`http://127.0.0.1:8000/manufacturer/${id}`, {
```

```
    headers: {
      'Content-Type': 'json/application',
    },
  });
  if (data.ok) {
    const parsedData: ManufacturerType = await data.json();
    return parsedData;
  } else {
    return undefined;
  }
};
```

removeManufacturerById.ts:

```
export const removeManufacturerById = async (id: number) => {
  const data = await fetch(`http://127.0.0.1:8000/manufacturer/${id}`, {
    method: 'DELETE',
    headers: {
      'Content-Type': 'json/application',
    },
  });
  if (data.ok) {
    return true;
  } else {
    return false;
  }
};
```

updateManufacturerById.ts:

```
import { ManufacturerType } from 'api/types';

export const updateManufacturerById = async (
  id: number,
  values: Partial<ManufacturerType>,
) => {
  const body = new FormData();
  for (const [key, value] of Object.entries(values)) {
    body.append(key, value.toString());
  }
  const data = await fetch(`http://127.0.0.1:8000/manufacturer/${id}`, {
    method: 'PUT',
    body: body,
  });
  if (data.ok) {
    return true;
```

```
  } else {
    return false;
  }
};
```

components/:

Button/:

Button.style.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';

import { ButtonProps } from './Button.types';

export const Button = styled.button<ButtonProps>`
  background-color: ${({ backgroundColor }) =>
    backgroundColor || 'transparent'};

  padding: ${({ round }) => (round ? '5px 5px' : '10px 16px')};
  border: 1px solid ${({ backgroundColor }) => backgroundColor || 'transparent'};
  border-radius: 16px;
  cursor: pointer;

  color: ${Colors.TEXT_MAIN_COLOR};
  font-family: Roboto;
  font-size: 14px;
  font-weight: 400;

  &:hover {
    border-color: ${({ backgroundColor, backgroundHoverColor }) =>
      backgroundHoverColor
        ? backgroundHoverColor
        : backgroundColor || 'transparent'};
    background-color: ${({ backgroundColor, backgroundHoverColor }) =>
      backgroundHoverColor
        ? backgroundHoverColor
        : backgroundColor || 'transparent'};
  }
`;
```

Button.types.tsx:

```
export type ButtonProps = {
  backgroundColor?: string;
  backgroundHoverColor?: string;
```

```
  round?: boolean;
};
```

Card/:

Card.styles.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';

export const CardWrapper = styled.div`
  display: flex;
  flex: 1 0 26%;
  position: relative;
  height: 300px;
  border: 1px solid ${Colors.BORDER_MAIN};
  border-radius: 16px;
  margin: 26px;
  padding: 20px;
  flex-direction: column;
  justify-content: space-between;
  align-items: center;
  background-color: ${Colors.CARD_MAIN};
`;
```

Card.tsx:

```
import { Colors } from 'constants/colors';

import React, { useCallback } from 'react';
import { useNavigate } from 'react-router';
import { removeProductById } from 'api';
import { ReactComponent as IcClose } from 'assets/icons/close.svg';

import { Button } from 'components/Button';
import { Image } from 'components/Image';
import { StyledLink } from 'components/StyledLink/StyledLink.style';
import { Text } from 'components/Text';

import { CardWrapper } from './Card.styles';
import { CardProps } from './Card.types';
import { CardNavbar } from './CardNavbar';

export const Card = ({ data, onRemove, detailed }: CardProps): JSX.Element => {
  const handleRemoveCard = useCallback(async () => {
    await removeProductById(data.pk);
    if (onRemove) {
      onRemove();
    }
```

```
  }, []);

  const navigator = useNavigate();

  const handleManfClick = useCallback(() => {
    const params = new URLSearchParams();
    params.append('manf', data.id_manufacturer.toString());
    navigator({ search: params.toString() });
  }, []);

  return (
    <CardWrapper>
      <CardNavbar>
        <Button round onClick={handleRemoveCard}>
          <IcClose width={16} height={16} />
        </Button>
      </CardNavbar>
      <Image src={data.imgSrc}></Image>
      <Text bold>{data.name}</Text>
      <Text>Количество: {data.quantity} шт.</Text>
      <Text>Стоимость: {data.price} руб.</Text>
      <Text>Вес: {data.weight} гр.</Text>
      {detailed && (
      <Text>Описание: {data.description}</Text>
      )}
      <div style={{ display: 'flex', alignItems: 'center' }}>
        <Text style={{ paddingRight: '10px' }}>
          Показать: {data.manufacturer?.name}
        </Text>
        <Button
          backgroundColor={Colors.MAIN}
          backgroundHoverColor={Colors.MAIN_HOVERED}
          onClick={handleManfClick}
        >
          Перейти
        </Button>
      </div>
      {!detailed ? (
        <StyledLink to={`/product/${data.pk}`}>
          <Button
            backgroundColor={Colors.MAIN}
            backgroundHoverColor={Colors.MAIN_HOVERED}
          >
            Открыть
          </Button>
        </StyledLink>
      ) : (
        <StyledLink to={`/product/${data.pk}/edit`}>
          <Button
            backgroundColor={Colors.MAIN}
            backgroundHoverColor={Colors.MAIN_HOVERED}
```

```
          >
            Редактировать
          </Button>
        </StyledLink>
      )}
    </CardWrapper>
  );
};
```

Card.types.tsx:

```
import { ProductType } from 'api/types';

export type CardProps = {
  data: ProductType;
  onRemove?: () => void;
  detailed?: boolean;
};
```

CardNavbar/:

CardNavbar.styles.tsx:

```
import styled from 'styled-components';

export const CardNavbar = styled.div`
  position: absolute;
  top: 5px;
  right: 5px;
`;
```

fields/:

CustomField/:

CustomField.styles.tsx:

```
import styled from 'styled-components';

export const CustomInput = styled.input`
  background: transparent;
  border: 1px solid #c8c8c8;
  padding: 8px 16px;
  border-radius: 16px;
  color: white;
  height: 20px;

  &::placeholder {
    color: #bfbfbf;
  }
```

```
  &:hover {
    background: #43484b;
  }

  &:focus {
    background: #4e5457;
  }
`;

export const ErrorMessage = styled.p`
  font-size: 10px;
  color: red;
  margin: 0;
  margin-top: 4px;
`;
```

CustomField.tsx:

```
import React from 'react';
import { Field } from 'react-final-form';

import { CustomInput, ErrorMessage } from './CustomField.styles';
import { CustomInputFieldProps } from './CustomField.types';

export const CustomField = <T extends string | number>(
  props: CustomInputFieldProps<T>,
): JSX.Element => {
  const { required, ...inputProps } = props;
  return (
    <Field<T> {...inputProps}>
      {({ input: { value, onChange, onFocus, onBlur }, meta: { touched } }) => (
        <div style={{ display: 'flex', flexDirection: 'column' }}>
          <CustomInput
            value={value}
            onInput={onChange}
            onFocus={onFocus}
            onBlur={onBlur}
            {...inputProps}
          />
          {required && !value && touched && (
            <ErrorMessage>Обязательное поле</ErrorMessage>
          )}
        </div>
      )}
    </Field>
  );
};
```

CustomField.types.ts

```ts
import { FieldProps, FieldRenderProps } from 'react-final-form';

export type CustomInputFieldProps<T extends string | number> = FieldProps<
  T,
  FieldRenderProps<T, HTMLElement, T>,
  HTMLElement,
  T
> &
  Omit<
    FieldProps<T, FieldRenderProps<T, HTMLElement, T>, HTMLElement, T>,
    'children'
  > & {
    name: string;
    required?: boolean;
  };
```

CustomSelector/:

CustomSelector.tsx:

```tsx
import React, { useCallback, useEffect, useState } from 'react';
import { Field } from 'react-final-form';
import Select, {
  ActionMeta,
  MultiValue,
  SingleValue,
  StylesConfig,
} from 'react-select';

import { CustomInputFieldProps, Option } from './CustomSeletor.types';

export const CustomSelector = (
  props: CustomInputFieldProps<Option>,
): JSX.Element => {
  const { required, options, ...inputProps } = props;
  const Styles: StylesConfig<
    Option,
    boolean,
    Record<string, string> & { options: Option[] }
  > = {
    container: (provided) => ({
      ...provided,
      width: 201,
    }),
    singleValue: (provided) => ({
      ...provided,
      color: 'white',
```

```
  }),
  menuList: (provided) => ({
    ...provided,
    padding: 0,
  }),
  menu: (state) => ({
    width: 199,
    position: 'absolute',
    padding: 0,
    backgroundColor: 'transparent',
    borderRadius: 4,
    zIndex: 10,
    border: `1px solid #c8c8c8`,
  }),
  option: (provided, state) => ({
    ...provided,
    boxShadow: 'none',
    maxWidth: 193,
    fontWeight: 12,
    color: 'white',
    whiteSpace: 'nowrap',
    textOverflow: 'ellipsis',
    overflow: 'hidden',
    borderRadius: 4,
    cursor: 'pointer',
    border: `1px solid #c8c8c8`,
    backgroundColor: '#181a1b',

    ':hover': {
      backgroundColor: '#43484b',
    },
  }),
  dropdownIndicator: (provided, state) => ({
    transition: 'transform 1s ease',
    transform: state.selectProps.menuIsOpen ? 'rotate(180deg)' : 'none',
    width: 20,
    height: 20,
  }),
  control: (provided, state) => ({
    ...provided,
    width: 203,
    height: 33,
    padding: 0,
    backgroundColor: 'transparent',
    borderRadius: 16,
    boxShadow: 'none',
    cursor: state.selectProps.menuIsOpen ? 'text' : 'pointer',
    border: `1px solid #c8c8c8`,
    ':hover': {
      border: `1px solid #c8c8c8`,
    },
```

```
  }),
  input: (provided) => ({
    ...provided,
    width: 156,
    fontWeight: 12,
    color: 'white',
  }),
  placeholder: (provided) => ({
    ...provided,
    fontWeight: 12,
    color: '#bfbfbf',
  }),
};

const [currentValue, setValue] = useState<Option>();

useEffect(() => {
  setValue(inputProps.initialValue);
}, [inputProps.initialValue]);

return (
  <Field<Option> {...inputProps}>
    {({ input: { onChange, onFocus, onBlur } }) => {
      const handleChange = useCallback(
        (
          newValue: SingleValue<Option> | MultiValue<Option>,
          actionMeta: ActionMeta<Option>,
        ) => {
          onChange(newValue as Option);
          setValue(newValue as Option);
        },
        [],
      );
      return (
        <div style={{ display: 'flex', flexDirection: 'column' }}>
          <Select
            styles={Styles}
            onChange={handleChange}
            isSearchable
            isClearable
            onFocus={onFocus}
            onBlur={onBlur}
            maxMenuHeight={120}
            placeholder={props.placeholder}
            options={options}
            {...inputProps}
            value={currentValue}
          />
        </div>
      );
    }}
```

```
    </Field>
  );
};
```

CustomSelector.types.ts:

```
import { FieldProps, FieldRenderProps } from 'react-final-form';

export type Option = {
  value: number;
  label: string;
};

export type CustomInputFieldProps<T extends Option> = FieldProps<
  T,
  FieldRenderProps<T, HTMLElement, T>,
  HTMLElement,
  T
> &
  Omit<
    FieldProps<T, FieldRenderProps<T, HTMLElement, T>, HTMLElement, T>,
    'children'
  > & {
    required?: boolean;
    options?: Array<Option>;
  };
```

Image/:

Image.styles.tsx:

```
import styled from 'styled-components';

export const Image = styled.img`
  width: 140px;
  height: 140px;
  border-radius: 16px;
`;
```

Navbar/:

Navbar.styles.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';
```

```
export const NavbarWrapper = styled.div`
  display: flex;
  flex-direction: row;
  justify-content: left;
  align-items: center;
  width: 100%;
  border: 1px solid ${Colors.BORDER_MAIN};
  height: 50px;
  background-color: ${Colors.BODY_MAIN};
`;
```

Navbar.tsx:

```
import React, { ChangeEvent, useCallback } from 'react';
import { Field, Form } from 'react-final-form';
import { URLSearchParamsInit } from 'react-router-dom';

import { Button } from 'components/Button';
import { CustomInput } from 'components/fields/CustomField/CustomField.styles';
import { StyledLink } from 'components/StyledLink/StyledLink.style';

import { NavbarWrapper } from './Navbar.styles';

export type NavbarProps = {
  detailed?: boolean;
  onChange?: (
    nextInit: URLSearchParamsInit,
    navigateOptions?:
      | {
          replace?: boolean | undefined;
          state?: any;
        }
      | undefined,
  ) => void;
};

export const Navbar = ({ detailed, onChange }: NavbarProps) => {
  const onFilter = useCallback((event: ChangeEvent<HTMLInputElement>) => {
    onChange && onChange({ productName: event.target.value });
  }, []);

  return (
    <NavbarWrapper>
      <StyledLink to="/product">
        <Button>Главная</Button>
      </StyledLink>
      <StyledLink to="/manufacturer">
        <Button>Производители</Button>
      </StyledLink>
```

```
      <StyledLink to="/product/add">
        <Button>Добавить товар</Button>
      </StyledLink>
      <StyledLink to="/manufacturer/add">
        <Button>Добавить производителя</Button>
      </StyledLink>
      {detailed && (
        <div style={{ display: 'flex', justifyContent: 'center ' }}>
          <Form
            onSubmit={() => {
              //
            }}
            render={() => (
              <Field name="name">
                {({ input }) => (
                  <CustomInput
                    {...input}
                    placeholder="Поиск по сайту..."
                    onChange={(e) => {
                      input.onChange(e);
                      onFilter(e);
                    }}
                  />
                )}
              </Field>
            )}
          />
        </div>
      )}
    </NavbarWrapper>
  );
};
```

StyledForm/:

StyledForm.styles.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';

export const StyledForm = styled.form`
  border-radius: 16px;
  width: 500px;
  margin: auto;
  display: flex;
  align-items: center;
  flex-direction: column;
  padding: 20px;
  border: 1px solid ${Colors.BORDER_MAIN};
  background-color: ${Colors.BODY_MAIN};
  justify-content: space-between;
```

```
`;
```

StyledLink/:

StyledLink.styles.tsx:

```
import { Link } from 'react-router-dom';
import styled from 'styled-components';

export const StyledLink = styled(Link)`
  text-decoration: none;

  &:focus,
  &:hover,
  &:visited,
  &:link,
  &:active {
    text-decoration: none;
  }
`;
```

Text/:

Text.styles.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';

import { TextProps } from './Text.types';

export const Text = styled.p<TextProps>`
  color: ${Colors.TEXT_MAIN_COLOR};
  font-family: Roboto;
  font-size: 16px;
  font-weight: ${({ bold }) => (bold ? '800' : '600')};

  margin: 0;
`;
```

Text.types.tsx:

```
export type TextProps = {
  bold?: boolean;
};
```

constants/:

colors.ts:

```
export enum Colors {
  MAIN = '#CC6600',
  MAIN_HOVERED = '#FF9933',

  TEXT_MAIN_COLOR = 'white',

  BODY_MAIN = '#330000',
  CARD_MAIN = '#330000',
  BORDER_MAIN = 'black',

  ALERT = '#cc0a24',
  ALERT_HOVERED = '#ad0219',
}
```

pages/:

PageAddProduct/:

PageAddProduct.styles.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';

export const InputWrapper = styled.div`
  display: flex;
  width: 100%;
  color: ${Colors.TEXT_MAIN_COLOR};
  font-family: Roboto;
  font-size: 14px;
  font-weight: 400;
  justify-content: space-between;
  align-items: center;
  height: auto;
`;
```

PageAddProduct.tsx:

```
import React, { useCallback, useEffect, useState } from 'react';
import { Form } from 'react-final-form';
import { TailSpin } from 'react-loader-spinner';
import { getManufacturer } from 'api/manufacturer';
import { addProduct } from 'api/product';
```

```tsx
import { ProductType } from 'api/types';

import { Button } from 'components/Button';
import { CustomField } from 'components/fields/CustomField';
import { CustomSelector } from 'components/fields/CustomSelector';
import { Option } from 'components/fields/CustomSelector/CustomSeletor.types';
import { Navbar } from 'components/Navbar/Navbar';
import { StyledForm } from 'components/StyledForm/StyledForm.styles';
import { sleep } from 'utils/sleep';

import { InputWrapper } from './PageAddProduct.styles';

import 'react-loader-spinner/dist/loader/css/react-spinner-loader.css';

export const PageAddHotel = () => {
  const [loading, setLoading] = useState(false);
  const [manufacturers, setManufacturers] = useState<Option[] | undefined>(
    undefined,
  );

  useEffect(() => {
    setLoading(true);

    getManufacturer().then(async (values) => {
      if (values) {
        await sleep(500);
        const options = values.map((val) => ({
          value: val.pk,
          label: val.name,
        }));
        setManufacturers(options);
      }
      setLoading(false);
    });
  }, []);

  const onSubmit = useCallback(
    async (
      values: Record<string, string | Record<string, string | number>>,
    ) => {
      setLoading(true);

      if (!values['name']) {
        return { error: 'error' };
      }

      const manufacturer = values['manufacturer'] as Record<string, number>;
      const newValues: Partial<ProductType> = {
        ...values,
        id_manufacturer: manufacturer['value'],
      };
```

```
    return addProduct(newValues).then(async (value) => {
      if (value) {
        await sleep(2000);
      } else {
        console.error('Error while POST hotel fetch');
      }
      setLoading(false);
    });
  },
  [],
);

return (
  <>
    <Navbar />
    <Form
      onSubmit={onSubmit}
      validate={(values) => {
        const errors: Record<string, string> = {};
        if (!values.name) {
          errors.name = 'Required';
        }
        return errors;
      }}
      render={({ submitting, form, handleSubmit }) =>
        loading ? (
          <div style={{ position: 'absolute', top: '50%', left: '50%' }}>
            <TailSpin arialLabel="loading-indicator" />
          </div>
        ) : (
          <StyledForm
            onSubmit={async (event) => {
              await handleSubmit(event);
              form.reset();
            }}
          >
            <InputWrapper>
              <label htmlFor="name">Название</label>
              <CustomField
                name="name"
                type="text"
                component="input"
                placeholder="Название"
                required
              />
            </InputWrapper>
            <InputWrapper>
              <label htmlFor="price">Стоимость</label>
              <CustomField
                name="price"
```

```
            type="text"
            component="input"
            placeholder="Стоимость"
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="imgSrc">Ссылка на изображение</label>
          <CustomField
            name="imgSrc"
            type="text"
            component="input"
            placeholder="Ссылка"
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="manufacturer">Производитель</label>
          <CustomSelector
            name="manufacturer"
            placeholder="Выберите..."
            component="input"
            options={manufacturers}
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="weight">Вес</label>
          <CustomField
            name="weight"
            type="text"
            component="input"
            placeholder="Вес"
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="description">Описание</label>
          <CustomField
            name="description"
            type="text"
            component="textarea"
            placeholder="Описание..."
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="quantity">Количество</label>
          <CustomField
            name="quantity"
            type="text"
            component="input"
            placeholder="Количество"
          />
        </InputWrapper>
        <Button type="submit" disabled={submitting}>
```

```
              Добавить
            </Button>
          </StyledForm>
        )
      }
    />
  </>
);
};
```

PageAddManufacturer/:

PageAddManufacturer.styles.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';

export const InputWrapper = styled.div`
  display: flex;
  width: 100%;
  color: ${Colors.TEXT_MAIN_COLOR};
  font-family: Roboto;
  font-size: 14px;
  font-weight: 400;
  justify-content: space-between;
  align-items: center;
`;
```

PageAddManufacturer.tsx:

```
import React, { useCallback, useState } from 'react';
import { Form } from 'react-final-form';
import { TailSpin } from 'react-loader-spinner';
import { addManufacturer } from 'api';

import { Button } from 'components/Button';
import { CustomField } from 'components/fields/CustomField';
import { Navbar } from 'components/Navbar/Navbar';
import { StyledForm } from 'components/StyledForm/StyledForm.styles';
import { sleep } from 'utils/sleep';

import { InputWrapper } from './PageAddManufacturer.styles';

import 'react-loader-spinner/dist/loader/css/react-spinner-loader.css';

export const PageAddCountry = () => {
  const [loading, setLoading] = useState(false);
```

```
const onSubmit = useCallback(
  async (
    values: Record<string, string | Record<string, string | number>>,
  ) => {
    setLoading(true);

    return addManufacturer(values).then(async (value) => {
      if (value) {
        await sleep(2000);
      } else {
        console.error('Error while POST manufacturer fetch');
      }
      setLoading(false);
    });
  },
  [],
);

return (
  <>
    <Navbar />
    <Form
      onSubmit={onSubmit}
      validate={(values) => {
        const errors: Record<string, string> = {};
        if (!values.name) {
          errors.name = 'Required';
        }
        return errors;
      }}
      render={({ submitting, form, handleSubmit }) =>
        loading ? (
          <div style={{ position: 'absolute', top: '50%', left: '50%' }}>
            <TailSpin arialLabel="loading-indicator" />
          </div>
        ) : (
          <StyledForm
            onSubmit={async (event) => {
              await handleSubmit(event);
              form.reset();
            }}
          >
            <InputWrapper>
              <label htmlFor="name">Название</label>
              <CustomField
                name="name"
                type="text"
                component="input"
                placeholder="Название"
                required
```

```
              />
            </InputWrapper>
            <InputWrapper>
              <label htmlFor="email">Email</label>
              <CustomField
                name="email"
                type="text"
                component="input"
                placeholder="e-mail"
              />
            </InputWrapper>
            <InputWrapper>
              <label htmlFor="adress">Адрес</label>
              <CustomField
                name="adress"
                type="text"
                component="input"
                placeholder="Адрес"
              />
            </InputWrapper>
            <Button type="submit" disabled={submitting}>
              Добавить
            </Button>
          </StyledForm>
        )
      }
    />
  </>
);
};
```

PageManufacterers/:

PageManufacturers.styles.tsx:

```
import styled from 'styled-components';

export const PageMainWrapper = styled.div`
  display: flex;
  flex-wrap: wrap;
`;
```

PageManufacturers.tsx:

```
import React, { useCallback, useEffect, useState } from 'react';
import { getManufacturer, getProducts } from 'api';
import { ManufacturerType } from 'api/types';
```

```
import { CountryCard } from 'components/CountryCard';
import { Navbar } from 'components/Navbar/Navbar';

import { PageMainWrapper } from './PageManufacturers.styles';

export const PageCountries = (): JSX.Element => {
  const [manfs, setManf] = useState<ManufacturerType[]>();

  useEffect(() => {
    getManufacturer().then((data) => {
      getProducts().then((products) => {
        const parsedData = data?.filter(
          (elem) =>
            products?.filter((product) => product.id_manufacturer === elem.pk)
              .length,
        );
        setManf(parsedData);
      });
    });
  }, []);

  const onRemoveClick = useCallback((id: number) => {
    setManf((prev) => prev?.filter((value) => value.pk !== id));
  }, []);

  return (
    <PageMainWrapper>
      <Navbar />
      {manfs?.map((manf) => (
        <CountryCard
          key={manf.pk}
          data={manf}
          onRemove={() => onRemoveClick(manf.pk)}
        />
      ))}
    </PageMainWrapper>
  );
};
```

PageManufacturer/:

PageManufacturer.styles.tsx:

```
import styled from 'styled-components';

export const PageCoutnryWrapper = styled.div`
  display: flex;
  flex-wrap: wrap;
```

```
`;
```

PageManufacturer.tsx:

```
import React, { useEffect, useState } from 'react';
import { useParams } from 'react-router';
import { getManufacturerById } from 'api';
import { ManufacturerType } from 'api/types';

import { CountryCard } from 'components/CountryCard';
import { Navbar } from 'components/Navbar/Navbar';

import { PageCoutnryWrapper } from './PageManufacturer.styles';

export const PageCountry = (): JSX.Element => {
  const [man, setMan] = useState<ManufacturerType>();
  const { id } = useParams();

  useEffect(() => {
    getManufacturerById(parseInt(id || '0')).then((data) => {
      setMan(data);
    });
  }, [id]);

  if (man) {
    return (
      <PageCoutnryWrapper>
        <Navbar />
        <CountryCard data={man} detailed />
      </PageCoutnryWrapper>
    );
  }
  return <></>;
};
```

PageEdit/:

PageEdit.styles.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';

export const InputWrapper = styled.div`
  display: flex;
  width: 100%;
  color: ${Colors.TEXT_MAIN_COLOR};
```

```
  font-family: Roboto;
  font-size: 14px;
  font-weight: 400;
  justify-content: space-between;
  height: auto;
  align-items: center;
`;
```

PageEdit.tsx:

```tsx
import React, { useCallback, useEffect, useMemo, useState } from 'react';
import { Form } from 'react-final-form';
import { TailSpin } from 'react-loader-spinner';
import { useParams } from 'react-router';
import { useNavigate } from 'react-router-dom';
import { getManufacturer, getProductById, updateProductById } from 'api';
import { ProductType } from 'api/types';

import { Button } from 'components/Button';
import { CustomField } from 'components/fields/CustomField';
import { CustomSelector } from 'components/fields/CustomSelector';
import { Option } from 'components/fields/CustomSelector/CustomSeletor.types';
import { Navbar } from 'components/Navbar/Navbar';
import { StyledForm } from 'components/StyledForm/StyledForm.styles';
import { sleep } from 'utils/sleep';

import { InputWrapper } from './PageEdit.styles';

import 'react-loader-spinner/dist/loader/css/react-spinner-loader.css';

export const PageEdit = () => {
  const [loading, setLoading] = useState(false);
  const [manfs, setManfs] = useState<Option[] | undefined>(undefined);
  const [initialValue, setInitialValue] = useState<
    | Record<string, string | number | Record<string, number | string>>
    | undefined
  >(undefined);

  const initialManf = useMemo(
    () => initialValue?.manufacturer as Option,
    [initialValue],
  );

  const { id } = useParams();
  const navigate = useNavigate();

  useEffect(() => {
    setLoading(true);
```

```
  getManufacturer().then(async (values) => {
    if (values) {
      await sleep(200);
      const options = values.map((val) => ({
        value: val.pk,
        label: val.name,
      }));
      setManfs(options);

      getProductById(parseInt(id || '0')).then(async (data) => {
        if (data) {
          await sleep(200);
          const formData = data as Record<
            string,
            string | number | Record<string, number | string>
          >;
          formData['manufacturer'] = {
            value: data.manufacturer?.pk || -1,
            label: data.manufacturer?.name || '',
          };
          setInitialValue(formData);
        }
      });
    }
    setLoading(false);
  });
}, [id]);

const onSubmit = useCallback(
  async (
    values: Record<string, string | Record<string, string | number>>,
  ) => {
    setLoading(true);

    if (!values['name']) {
      return { error: 'error' };
    }

    const { manufacturer, ...valuesWithoutOption } = values;
    const manufacturerId = manufacturer as Record<string, string | number>;
    const newValues: Partial<ProductType> = {
      ...valuesWithoutOption,
      id_manufacturer: manufacturerId['value'] as number,
    };
    console.log(JSON.stringify(newValues));

    return updateProductById(parseInt(id || '0'), newValues).then(
      async (value) => {
        if (value) {
          await sleep(2000);
        } else {
```

```
          console.error('Error while PUT hotel fetch');
        }
        setLoading(false);
        navigate('/');
      },
    );
  },
  [],
);

return (
  <>
    <Navbar />
    <Form
      onSubmit={onSubmit}
      initialValues={initialValue}
      validate={(values) => {
        const errors: Record<string, string> = {};
        if (!values.name) {
          errors.name = 'Required';
        }
        return errors;
      }}
      render={({ submitting, form, handleSubmit }) =>
        loading ? (
          <div style={{ position: 'absolute', top: '50%', left: '50%' }}>
            <TailSpin arialLabel="loading-indicator" />
          </div>
        ) : (
          <StyledForm
            onSubmit={async (event) => {
              await handleSubmit(event);
              form.reset();
            }}
          >
            <InputWrapper>
              <label htmlFor="name">Название</label>
              <CustomField
                name="name"
                type="text"
                component="input"
                placeholder="Название"
                required
              />
            </InputWrapper>
            <InputWrapper>
              <label htmlFor="price">Стоимость</label>
              <CustomField
                name="price"
                type="text"
                component="input"
```

```
            placeholder="Стоимость"
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="imgSrc">Ссылка на изображение</label>
          <CustomField
            name="imgSrc"
            type="text"
            component="input"
            placeholder="Ссылка"
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="manufacturer">Производитель</label>
          <CustomSelector
            name="manufacturer"
            placeholder="Выберите..."
            component="input"
            options={manfs}
            initialValue={initialManf}
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="weight">Вес</label>
          <CustomField
            name="weight"
            type="text"
            component="input"
            placeholder="Вес"
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="description">Описание</label>
          <CustomField
            name="description"
            type="text"
            component="textarea"
            placeholder="Описание..."
          />
        </InputWrapper>
        <InputWrapper>
          <label htmlFor="quantity">Количество</label>
          <CustomField
            name="quantity"
            type="text"
            component="input"
            placeholder="Количество"
          />
        </InputWrapper>
        <Button type="submit" disabled={submitting}>
          Обновить
```

```
              </Button>
            </StyledForm>
          )
        }
      />
    </>
  );
};
```

PageEditManufacturer/:

PageEditManufacturer.styles.tsx:

```
import { Colors } from 'constants/colors';

import styled from 'styled-components';

export const InputWrapper = styled.div`
  display: flex;
  width: 100%;
  color: ${Colors.TEXT_MAIN_COLOR};
  font-family: Roboto;
  font-size: 14px;
  font-weight: 400;
  justify-content: space-between;
  align-items: center;
`;
```

PageEditManufacturer.tsx:

```
import React, { useCallback, useEffect, useState } from 'react';
import { Form } from 'react-final-form';
import { TailSpin } from 'react-loader-spinner';
import { useParams } from 'react-router';
import { useNavigate } from 'react-router-dom';
import { getManufacturerById, updateManufacturerById } from 'api';

import { Button } from 'components/Button';
import { CustomField } from 'components/fields/CustomField';
import { Navbar } from 'components/Navbar/Navbar';
import { StyledForm } from 'components/StyledForm/StyledForm.styles';
import { sleep } from 'utils/sleep';

import { InputWrapper } from './PageEditManufacturer.styles';

import 'react-loader-spinner/dist/loader/css/react-spinner-loader.css';

export const PageEditCountry = () => {
```

```tsx
const [loading, setLoading] = useState(false);
const [initialValue, setInitialValue] = useState<
  | Record<string, string | number | Record<string, number | string>>
  | undefined
>(undefined);

const { id } = useParams();
const navigate = useNavigate();

useEffect(() => {
  setLoading(true);

  getManufacturerById(parseInt(id || '0')).then(async (data) => {
    if (data) {
      await sleep(200);
      setInitialValue(data);
    }
  });
  setLoading(false);
}, [id]);

const onSubmit = useCallback(
  async (
    values: Record<string, string | Record<string, string | number>>,
  ) => {
    setLoading(true);

    return updateManufacturerById(parseInt(id || '0'), values).then(
      async (value) => {
        if (value) {
          await sleep(2000);
        } else {
          console.error('Error while PUT man fetch');
        }
        setLoading(false);
        navigate('/');
      },
    );
  },
  [],
);

return (
  <>
    <Navbar />
    <Form
      onSubmit={onSubmit}
      initialValues={initialValue}
      validate={(values) => {
        const errors: Record<string, string> = {};
        if (!values.name) {
```

```
          errors.name = 'Required';
        }
        return errors;
      }}
      render={({ submitting, form, handleSubmit }) =>
        loading ? (
          <div style={{ position: 'absolute', top: '50%', left: '50%' }}>
            <TailSpin arialLabel="loading-indicator" />
          </div>
        ) : (
          <StyledForm
            onSubmit={async (event) => {
              await handleSubmit(event);
              form.reset();
            }}
          >
            <InputWrapper>
              <label htmlFor="name">Название</label>
              <CustomField
                name="name"
                type="text"
                component="input"
                placeholder="Название"
                required
              />
            </InputWrapper>
            <InputWrapper>
              <label htmlFor="email">Email</label>
              <CustomField
                name="email"
                type="text"
                component="input"
                placeholder="e-mail"
              />
            </InputWrapper>
            <InputWrapper>
              <label htmlFor="adress">Адрес</label>
              <CustomField
                name="adress"
                type="text"
                component="input"
                placeholder="Адрес"
              />
            </InputWrapper>
            <Button type="submit" disabled={submitting}>
              Обновить
            </Button>
          </StyledForm>
        )
      }
    />
```

```
    </>
  );
};
```

PageProduct/:

PageProduct.tsx:

```
import React, { useEffect, useState } from 'react';
import { useParams } from 'react-router';
import { getProductById } from 'api';
import { ProductType } from 'api/types';

import { Card } from 'components/Card/Card';
import { Navbar } from 'components/Navbar/Navbar';

export const PageProduct = (): JSX.Element => {
  const [product, setProduct] = useState<ProductType>();
  const { id } = useParams();

  useEffect(() => {
    getProductById(parseInt(id || '0')).then((data) => {
      setProduct(data);
    });
  }, [id]);

  if (product) {
    return (
      <>
        <Navbar />
        <Card data={product} detailed />
      </>
    );
  }
  return <></>;
};
```

PageMain/:

PageMain.styles.tsx:

```
import styled from 'styled-components';

export const PageMainWrapper = styled.div`
  display: flex;
  flex-wrap: wrap;
```

```
`;
```

PageMain.tsx:

```tsx
import React, { useCallback, useEffect, useState } from 'react';
import { useSearchParams } from 'react-router-dom';
import { getProducts } from 'api';
import { ProductType } from 'api/types';

import { Card } from 'components/Card/Card';
import { Navbar } from 'components/Navbar/Navbar';

import { PageMainWrapper } from './PageMain.styles';

export const PageMain = (): JSX.Element => {
  const [products, setProducts] = useState<ProductType[]>();
  const [params, setParams] = useSearchParams();

  useEffect(() => {
    getProducts().then((data) => {
      if (params.get('manf')) {
        const parsedData = data?.filter((elem) => {
          if (params.get('manf')) {
            return (
              elem.id_manufacturer === parseInt(params.get('manf') || '-1')
            );
          } else {
            return true;
          }
        });
        setProducts(parsedData);
      } else {
        if (params.get('productName')) {
          const parsedData = data?.filter((elem) => {
            if (params.get('productName')) {
              return elem.name.includes(params.get('productName') || '');
            } else {
              return true;
            }
          });
          setProducts(parsedData);
        } else {
          setProducts(data);
        }
      }
    });
  }, [params]);

  const onRemoveClick = useCallback((id: number) => {
    setProducts((prev) => prev?.filter((value) => value.pk !== id));
```

```
  }, []);

  return (
    <PageMainWrapper>
      <Navbar detailed onChange={setParams} />
      {products?.map((product) => (
        <Card
          key={product.pk}
          data={product}
          onRemove={() => onRemoveClick(product.pk)}
        />
      ))}
    </PageMainWrapper>
  );
};
```

utils/:

sleep.ts

```
export const sleep = async (time?: number) =>
  await new Promise((r) => setTimeout(r, time || 1000));
```

App.tsx

```
import React from 'react';
import { BrowserRouter, Navigate, Route, Routes } from 'react-router-dom';
import { PageAddCountry } from 'pages/PageAddManufacturer';
import { PageAddHotel } from 'pages/PageAddProduct';
import { PageCountries } from 'pages/PageManufacturers';
import { PageCountry } from 'pages/PageManufacturer';
import { PageEdit } from 'pages/PageEdit';
import { PageEditCountry } from 'pages/PageEditManufacturer';
import { PageMain } from 'pages/PageMain';
import { PageProduct } from 'pages/PageProduct';

import './App.css';

function App() {
  return (
    <BrowserRouter>
      <Routes>
        <Route path="/" element={<Navigate to="/product" />} />

        <Route path="/product" element={<PageMain />} />
        <Route path="/product/add" element={<PageAddHotel />} />
        <Route path="/product/:id/edit" element={<PageEdit />} />
        <Route path="/product/:id" element={<PageProduct />} />
```

```
        <Route path="/manufacturer" element={<PageCountries />} />
        <Route path="/manufacturer/add" element={<PageAddCountry />} />
        <Route path="/manufacturer/:id/edit" element={<PageEditCountry />} />
        <Route path="/manufacturer/:id" element={<PageCountry />} />
      </Routes>
    </BrowserRouter>
  );
}

export default App;
```

index.tsx

```
import React from 'react';
import ReactDOM from 'react-dom';

import App from './App';

import './index.css';

ReactDOM.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>,
  document.getElementById('root'),
);
```

server/

productModel/

models.py

```
from django.db import models

class Manufacturer(models.Model):
    name = models.CharField(max_length=100)
    adress = models.CharField(max_length=999, blank=True, null=True)
    email = models.CharField(max_length=100, blank=True, null=True)

    class Meta:
        managed = True
        db_table = 'manufacturer'


class Product(models.Model):
    name = models.CharField(max_length=255, blank=True, null=True)
    price = models.IntegerField(blank=True, null=True)
    quantity = models.IntegerField(blank=True, null=True)
```

```
    id_manufacturer = models.ForeignKey(Manufacturer, on_delete=models.CASCADE)
    weight = models.FloatField(blank=True, null=True)
    description = models.CharField(max_length=255, blank=True, null=True)
    imgSrc = models.CharField(max_length=1000, blank=True, null=True)

    class Meta:
        managed = True
        db_table = 'product'
```

serializers.py

```
from productModel.models import Manufacturer, Product
from rest_framework import serializers

class ManufacturerSerializer(serializers.ModelSerializer):
    class Meta:
        model = Manufacturer
        fields = ("pk", "name", "adress", "email")

class ProductSerializer(serializers.ModelSerializer):
    def create(self, validated_data):
        return Product.objects.create(**validated_data)
    manufacturer = ManufacturerSerializer(source='id_manufacturer', required=False)
    class Meta:
        model = Product
        fields = ["pk", "name", "price", "quantity", "manufacturer",
"id_manufacturer", "weight", "description", "imgSrc"]
```

views.py

```
from productModel.models import Manufacturer, Product
from productModel.serializers import ManufacturerSerializer, ProductSerializer
from rest_framework.generics import ListCreateAPIView, ListAPIView,
RetrieveUpdateDestroyAPIView
from rest_framework.response import Response

class ManufacturerView(ListCreateAPIView):
    queryset = Manufacturer.objects.all()
    serializer_class = ManufacturerSerializer

class SingleManufacturerView(RetrieveUpdateDestroyAPIView):
    queryset = Manufacturer.objects.all()
    serializer_class = ManufacturerSerializer

class ProductView(ListAPIView):
    queryset = Product.objects.all()
    serializer_class = ProductSerializer
```

```
    def post(self, request):
        manufacturer = request.data
        serializer = ProductSerializer(data=manufacturer)
        if serializer.is_valid(raise_exception=True):
            article_saved = serializer.save()
        return Response({"success": "Product '{}' created
successfully".format(article_saved.name)})

class SingleProductView(RetrieveUpdateDestroyAPIView):
    queryset = Product.objects.all()
    serializer_class = ProductSerializer
```

products/

urls.py

```
from django.contrib import admin
from django.urls import include, path
from productModel import views as productModel

urlpatterns = [
    path('manufacturer/', productModel.ManufacturerView.as_view()),
    path('manufacturer/<int:pk>', productModel.SingleManufacturerView.as_view()),

    path('product/', productModel.ProductView.as_view()),
    path('product/<int:pk>', productModel.SingleProductView.as_view()),

    path('api-auth/', include('rest_framework.urls', namespace='rest_framework')),
    path('admin/', admin.site.urls)
]
```

settings.py

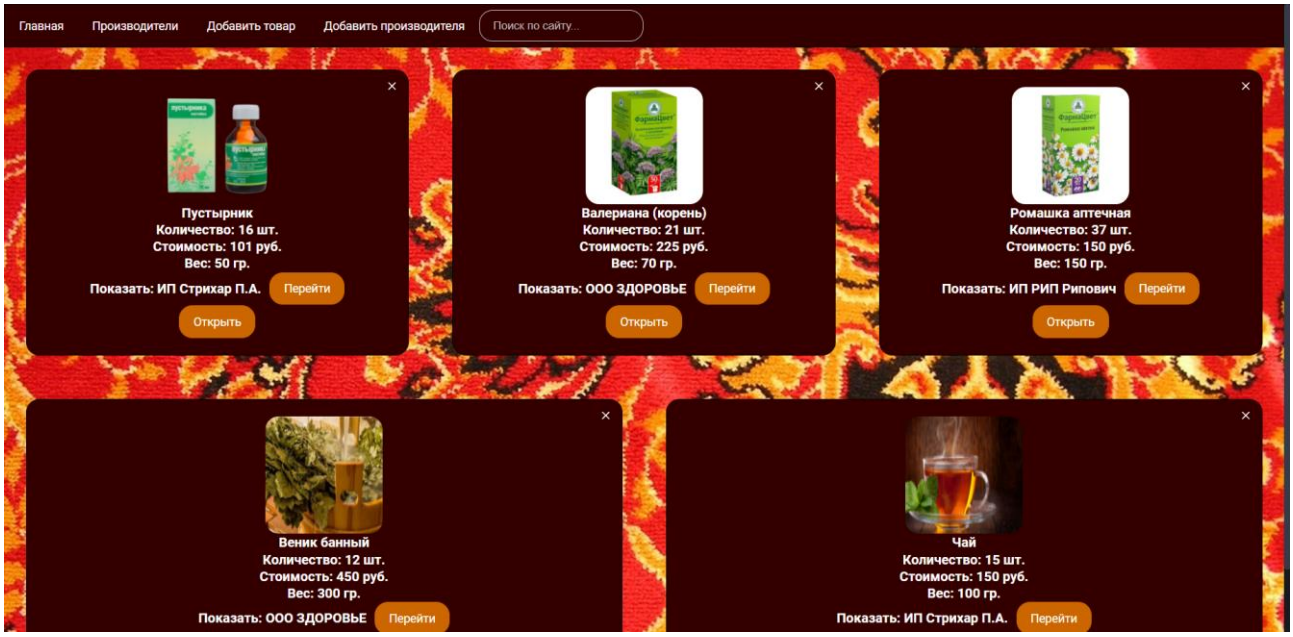
```
"""
Django settings for hotels project.

Generated by 'django-admin startproject' using Django 3.1.1.

For more information on this file, see
https://docs.djangoproject.com/en/3.1/topics/settings/

For the full list of settings and their values, see
https://docs.djangoproject.com/en/3.1/ref/settings/
"""

from pathlib import Path

# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent
```

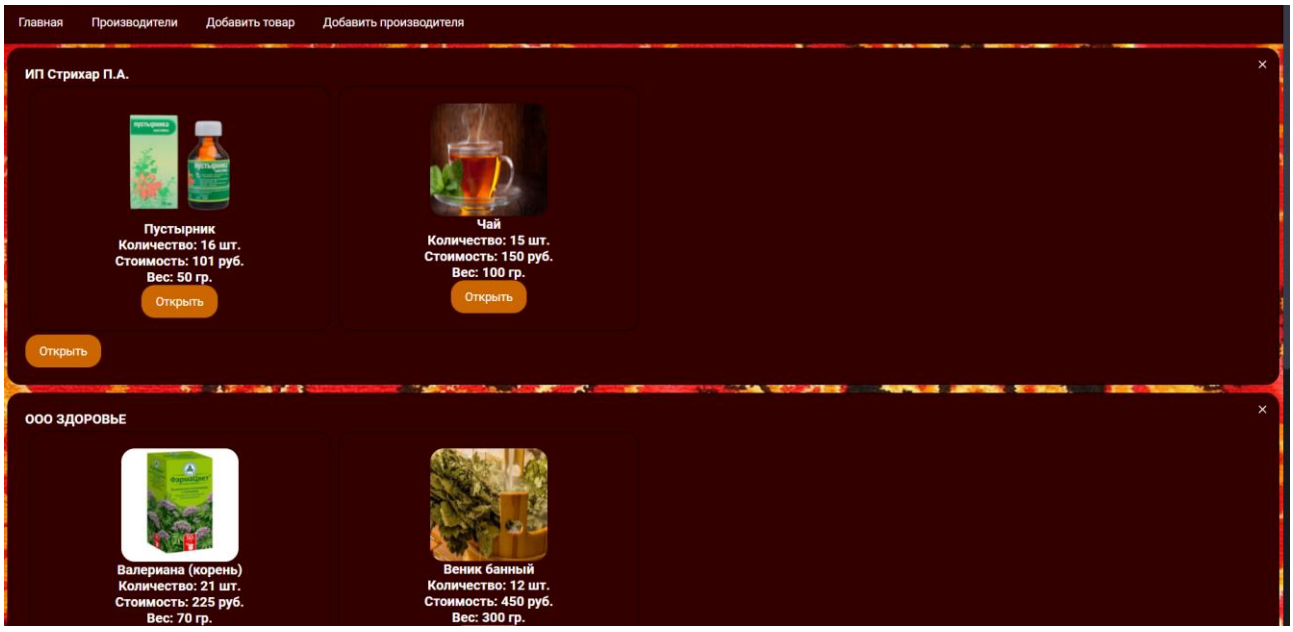
```
# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/3.1/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'g5=o&_*8a!sv%x-ac_%@4kgrb75w56_wzrw4+&d4d+ew4i+x+9'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = []


# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'corsheaders',
    'rest_framework',

    'productModel'
]

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'corsheaders.middleware.CorsMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'products.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
```

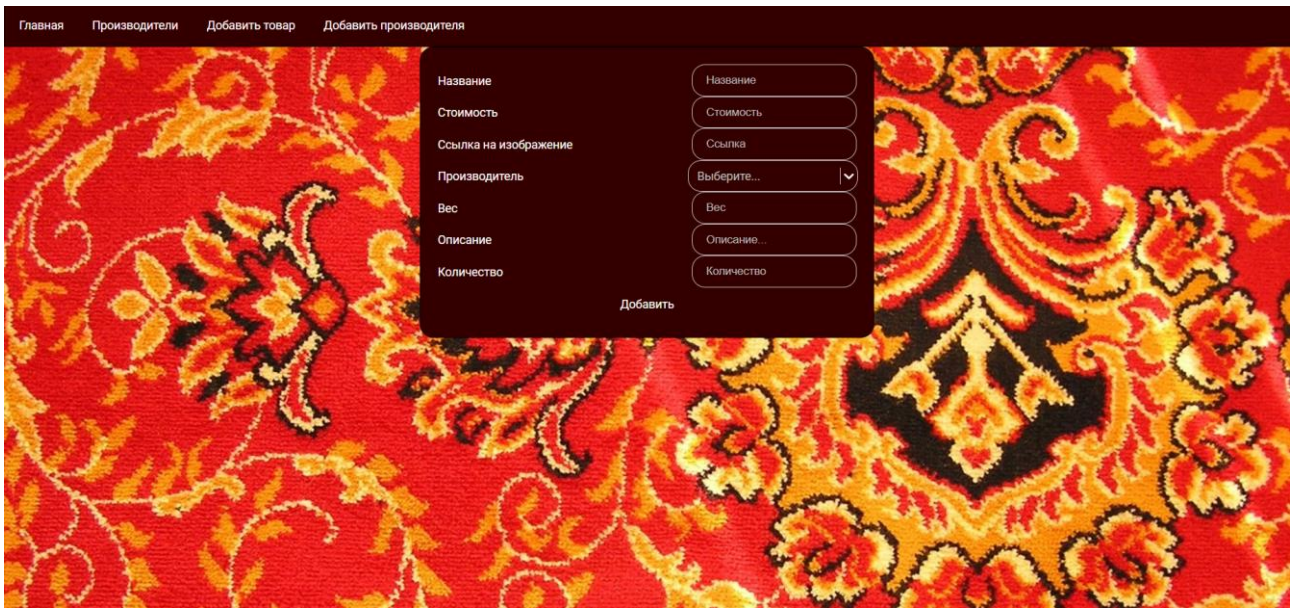
```
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]

WSGI_APPLICATION = 'products.wsgi.application'


# Database
# https://docs.djangoproject.com/en/3.1/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': 'products',
        'USER': 'django',
        'PASSWORD': 'root',
        'HOST': 'db',
        'PORT': 3306,
        'OPTIONS': {
          'init_command': 'SET NAMES utf8mb4',
          'charset': 'utf8mb4'
        },
    }
}


# Password validation
# https://docs.djangoproject.com/en/3.1/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME':
'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]


# Internationalization
# https://docs.djangoproject.com/en/3.1/topics/i18n/
```

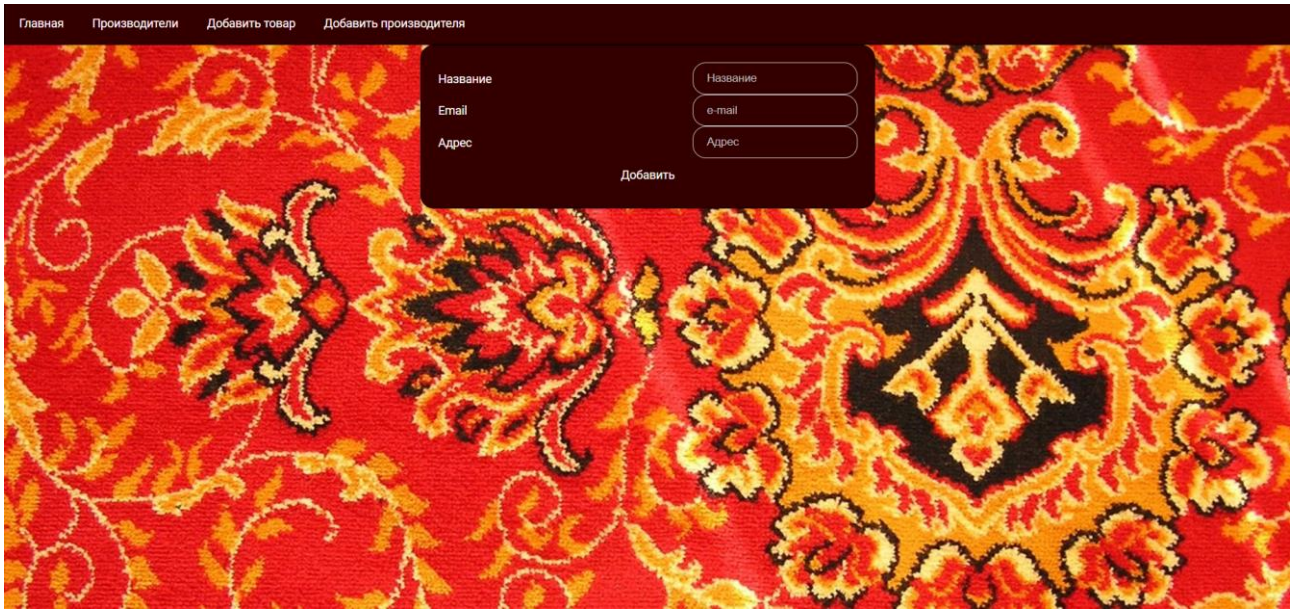
```
LANGUAGE_CODE = 'en-us'

TIME_ZONE = 'Europe/Moscow'

USE_I18N = True

USE_L10N = True

USE_TZ = True

UNICODE_JSON = True


# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/3.1/howto/static-files/

STATIC_URL = '/static/'

CORS_ALLOW_ALL_ORIGINS = True # If this is used then `CORS_ALLOWED_ORIGINS` will
not have any effect
CORS_ALLOW_CREDENTIALS = True
CORS_ALLOWED_ORIGINS = [
    'http://localhost:3000',
] # If this is used, then not need to use `CORS_ALLOW_ALL_ORIGINS = True`
CORS_ALLOWED_ORIGIN_REGEXES = [
    'http://localhost:3000',
]
```

Экранные формы с примерами выполнения программы:






Главная
Производители
Добавить товар
Добавить производителя
Название
Название
Стоимость
Стоимость
Ссылка на изображение
Ссылка
Производитель
Выберите...
Вес
Вес
Описание
Описание...
Количество
Количество
Добавить


Главная
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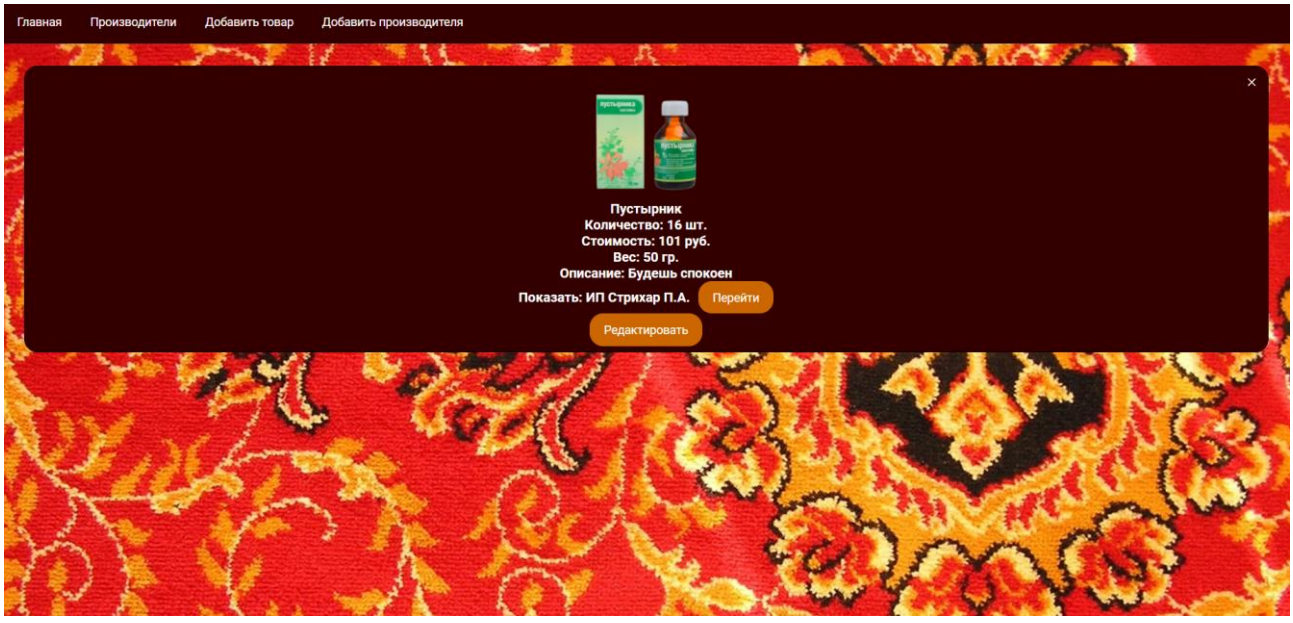
Адрес
Добавить


Главная
Производители
Добавить товар
Добавить производителя
Пустырник
Количество: 16 шт.
Стоимость: 101 руб.
Вес: 50 гр.
Описание: Будешь спокоен
Показать: ИП Стрихар П.А.
Перейти
Редактировать