# **МИНИСТЕРСТВО ОБРАЗОВАНИЕ И НАУКИ РОССИЙСКОЙ ФЕДЕРАЦИИ ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ АВТОНОМНОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ**

## «Санкт-Петербургский национальный исследовательский университет информационных технологий, механики и оптики»

## Факультет информационных технологий и программирования

## Кафедра информационных систем

## Лабораторная работа № 4

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САНКТ-ПЕТЕРБУРГ

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**КОД:**

*index.html*

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Pokemon - SPA</title>  
 <link href="style.css" rel="stylesheet"/>  
 <link href="img/pokeball.ico" rel="icon"/>  
 <script src="https://kit.fontawesome.com/1c50fc5175.js" crossorigin="anonymous"></script>  
 <link href="https://fonts.googleapis.com/css?family=Montserrat|Open+Sans|Oswald|Roboto&display=swap" rel="stylesheet">  
</head>  
  
<body>  
  
<header>  
 <img id="pokemon" src="img/pikachu.svg" alt="">  
 <a href="#" id="home">About</a>  
 <input type="text" id="input" placeholder="Name">  
 <button id="button"><i class="fab fa-searchengin fa-2x"></i></button>  
</header>  
  
<section></section>  
  
<script src="main/bundle.js" type="module"></script>  
  
</body>  
</html>

*style.css*

\* {  
 margin: 0;  
}  
  
body {  
 background-color: #1C242D;  
 color: white;  
 font-size: 20px;  
 font-family: 'Roboto', sans-serif;  
}  
  
header {  
 margin-right: auto;  
 margin-left: auto;  
 padding: 2px 10px 2px 10px;  
 display: flex;  
 border-bottom: solid #353d45;  
}  
  
header img {  
 margin-left: 20px;  
 margin-right: auto;  
 width: 60px;  
 height: 60px;  
 transition: .5s ease;  
 align-self: center;  
}  
  
header img:hover {  
 transform: scale(1.1, 1.1);  
}  
  
header a {  
 font-family: 'Open Sans', sans-serif;  
 align-self: center;  
 color: white;  
 margin: 15px 30px 15px 10px;  
 text-decoration: none;  
 background-image: linear-gradient(currentColor, currentColor);  
 background-position: 0% 100%;  
 background-repeat: no-repeat;  
 background-size: 0% 2px;  
 transition: background-size .3s;  
}  
  
header a:hover {  
 background-size: 100% 2px;  
}  
  
section {  
 margin-right: auto;  
 margin-left: auto;  
 width: 63vw;  
 padding: 20px;  
 height: 90vh;  
}  
  
p {  
 padding: 10px;  
 font-size: 24px;  
}  
  
input {  
 align-self: center;  
 width: 300px;  
 height: 30px;  
 font-size: 20px;  
 color: white;  
 background-color: #344151;  
 border: none;  
 border-radius: 5px;  
 padding: 10px;  
 outline: none;  
 transition: .5s ease;  
 margin-right: -50px;  
}  
  
input:focus {  
 width: 500px;  
}  
  
button {  
 align-self: center;  
 width: 30px;  
 height: 30px;  
 color: white;  
 background-color: #344151;  
 margin-right: 25px;  
 border-radius: 50%;  
 border: none;  
 outline: none;  
 transition: .5s ease;  
}  
  
button:hover {  
 color: #FBD54A;  
}  
  
button:active {  
 color: #1C242D;  
 background-color: white;  
}  
  
.names {  
 font-family: "Montserrat";  
 margin-top: 70px;  
 text-align: center;  
}  
  
.ability {  
 margin-left: 20px;  
}  
  
.pokemon\_image {  
 width: 288px;  
 height: 288px;  
 transition: .5s ease;  
}  
  
.pokemon\_image:hover {  
 transform: scale(1.4, 1.4);  
}  
  
.polaroid {  
 width: 288px;  
 height: 100%;  
 margin-top: 15px;  
 margin-right: 30px;  
 background-color: white;  
 box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);  
}  
  
.polaroid p {  
 text-align: center;  
 background-color: #1C242D;  
}  
  
.pokemon\_page {  
 display: flex;  
}  
  
.sad\_pokemon {  
 width: 288px;  
 height: 288px;  
}

*webpack.config.js*

module.exports = {  
 mode: "development",  
 entry: \_\_dirname + "/src/index.js",  
 output: {  
 path: \_\_dirname + '/main',  
 filename: 'bundle.js',  
 publicPath: '/'  
 },  
};

*index.js*

import getCV from "./cv";  
import getPokemon from "./pokemon";  
  
let sect = ***document***.querySelector('section');  
let pokemon = 'pikachu';  
  
function fillWithUserData() {  
 sect.innerHTML = getCV();  
}  
  
function fillWithError() {  
 sect.innerHTML = `<p>Please, enter pokemon name. </p>`;  
}  
  
function fillWithPokemon(name) {  
 if (name == '') {  
 fillWithError()  
 }  
 getPokemon(name).then(info => sect.innerHTML = info);  
}  
  
***document***.getElementById('home').onclick = fillWithUserData;  
***document***.getElementById('pokemon').onclick = () => {  
 fillWithPokemon(pokemon)  
};  
***document***.getElementById('button').onclick = () => {  
 fillWithPokemon(***document***.getElementById('input').value)  
};  
  
fillWithUserData();

*cv.js*

export default function getCV() {  
 return `<p>Hello, on this website you can find information about every pokémon. Just use our search)</p>  
 <p class="names">© 2020 VKGS Ltd. <br>  
 Vakhtang Karchava & Grigory Sumlinsky<br>  
 M3310</p>`;  
}

*pokemon.js*

async function getAbilityInfo(abilityUrl) {  
 let response = await fetch(abilityUrl);  
 if (!response.ok) {  
 ***console***.log('ERROR: Request returned error');  
 return null;  
 }  
 const EFFECT\_DATA = await response.json();  
 return EFFECT\_DATA.effect\_entries[0].effect;  
}  
  
function capitalize(str) {  
 return str.charAt(0).toUpperCase() + str.slice(1);  
}  
  
export default async function getPokemon(pokemonName) {  
 let response = await fetch(`https://pokeapi.co/api/v2/pokemon/${pokemonName}`);  
  
 if (!response.ok) {  
 return `<div class="pokemon\_page"><div class="polaroid"><img class="sad\_pokemon" alt="" src="https://i.pinimg.com/originals/dc/28/f7/dc28f762c803b7aef0d64875712acca9.png">  
 <p>Sad Pikachu</p></div>  
 <p>404: Not found.<br>  
 There's no such pokémon(</p></div>`;  
 }  
  
 const POKEMON\_DATA = await response.json();  
 let pokeInfo = `<div class="pokemon\_page"><div class="polaroid"><img class="pokemon\_image" alt="" src="${POKEMON\_DATA.sprites.front\_default}">  
 <p>${capitalize(pokemonName)}</p></div><p>`;  
  
 for (let i = 0; i < POKEMON\_DATA.abilities.length; i++) {  
 let ability = POKEMON\_DATA.abilities[i].ability;  
 let abilityUrl = ability.url;  
 let abilityPromise = getAbilityInfo(abilityUrl);  
 let abilityName = capitalize(ability.name);  
 pokeInfo += `<ins>${abilityName}</ins>: ${await abilityPromise}<br><br>`;  
 }  
  
 return `</p>` + pokeInfo + `</div>`;  
}

**РАБОТА ПРОГРАММЫ:**





