|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Assignment 1 | | Project Summary | | |
| Course | | Fullstack Application Development with Node.js + Express.js + React.js - 2017 | | |
|  | | | | |
| Project author | | | | |
| № | First name, last name | | E-mail | Face-to-face/ online |
| 1 | Antonia Partacheva | | antoniya.partacheva@gmail.com | face-to-face |
| 2 | Pavel Koev | | pavelspr1@abv.bg | face-to-face |

|  |  |
| --- | --- |
| Project name | Online Shop |

|  |
| --- |
| 1. Short project description (Business needs and system features) |
| This Online Shop system is intended to help a business, with a small range of products, reach more people and ultimately customers.  Customers would be able to look through the available products and add them to their carts.The system will allow customers to register and only Registered Users will be able to check out - placing their order. The Administrator would be able to manage the products (insert, edit or delete data). Furthermore he would be able to manage the placed orders, the users [and the template emails].  The system will be developed as a Single Page Application (SPA) using React.js as front-end, and Node.js + express as backend technologies.  The main user roles (actors in UML) are:  • Anonymous User – can register, view the information pages and add products to the cart without placing an order.  • Registered User – can also place an order and edit their personal information.  • Administrator (extends Registered User) – can manage (edit and delete user data) all Registered Users, as well as Products, Placed Orders [and edit the Template Emails]. |

|  |  |  |
| --- | --- | --- |
| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| **2.1 Browse information** | The *User* can browse the information views (Home, Products, About,Cart) in Online Shop SPA. | All users |
| **2.2 Add an Item to Cart** | *Anonymous User and Registered User* can choose a product and add it to the cart. | *Anonymous User,Registered User* |
| **2.3 Remove an Item from Cart** | *Anonymous User and Registered User can remove items from Cart.* | *Anonymous User,Registered User* |
| **2.4 Register** | *Anonymous User* can register in the system by providing a valid e-mail address, first and last name, and choosing password. | *Anonymous User* |
| **2.5 Change User Data** | *Registered User* can view and edit her personal *User Data*.  *Administrator* can view and edit *User Data* of all *Users*. | *Registered User, Administrator* |
| **2.6 Place an Order** | *After adding a Product to the cart, only a Registered Users can Place an Order* | *Registered Users* |
| **2.7 Add/Edit Product** | *Administrators* can add, delete and edit *Product*s | *Administrator* |
| **2.8 Manage Products** | *Administrator* can browse, search,filter all Products and *Add/Edit Product UC*, and delete a *Product*. | *Administrator* |
| **2.9 Manage Users** | *Administrator* can search and filter users based on different criteria: first and last name, email.  *Administrator* can choose a *User* to manage, and can manage the chosen User - edit (using Change User Data UC) or delete.  *Administrator* is able to change the Permissions of a User - Admin/Normal | *Administrator* |
| **2.10 Manage Orders** | *Administrator is being able to see the placed Orders and change their Status.* | *Administrator* |
| **2.11 Manage “Contact us” mail** | *Administrator is being able to see the “Contact us” mails* | *Administrator* |
| **2.12 Comment a Product** |  | *Registered User, Administrator* |

|  |  |  |
| --- | --- | --- |
| 3. Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| **3.1 Home** | Presents a list of (new/on sale) Products. | / |
| **3.2 Products** | Presents a list of all Products. | */products* |
| **3.3 Cart** | Present ability to remove a product and change quantity of the Item. | */cart* |
| **3.4 Register** | Presents the ability to register into the system | */register* |
| **3.5 User Data** | Presents ability to view and edit personal *User Data*, as well as unregister from *Online Shop*. | */personal* |
| **3.6 Admin Panel** | Presents the ability to manage the products (insert, edit or delete data), the placed orders and the users | */admin* |
| **3.7 About** | Presents information about the *Online Shop* and his owner. | */about* |

|  |  |  |
| --- | --- | --- |
| 4. API Resources (Node.js Backend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| **4.1 Users** | GET *User Data* for all users, and POST new *User Data* (Id is auto-filled by *Online Shop System* and modified entity is returned as result from POST request). | */api/users* |
| **4.2 User** | GET, PUT, DELETE *User Data* for *User* with specified *userId*. | */api/users/{userId}* |
| **4.3 Products** | GET products. POST a new *Product* (Id is auto-filled by *Online Shop System*  and modified entity is returned as result from POST request) - Available only for Administrators. | */api/products* |
| **4.4 Product** | GET Product data.  PUT, DELETE *Product data* - Available only for Administrators. | */api/products/{productId}* |
| **4.5 Orders** | GET order data for all *Orders* - Available only for Administrators.  POST new *Order* (Id is auto-filled by Online Shop and modified entity is returned as result from POST request) (according to *User's Role*). | */api/orders/* |
| **4.6 Order** | GET, PUT, DELETE for *an Order* with specified *orderId* - Available only for Administrators. | */api/orders/{orderId}* |
| **4.7 ContcatMails** | GET all *ContactMails* and POST new *Contact Data* (Id is auto-filled by *Online Shop System*) | *api/contacts* |
| **4.8 ContactMail** | GET,DELETE for *an Contact Form* with specified *contactFormId* - Available only for Administrators. | *api/contacts/{messageId}* |
| **4.11 Discounts** | GET, POST | *api/discounts* |
| **4.12 Discount** | GET, POST, PUT, DELETE | *api/discount/{discountId}* |