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| Assignment 1 | | Project Summary | |
| Course | | React.js - 2020 | |
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| Project author | | | |
| № | Pseudonym | | Face-to-face/ online |
| 1 | bid | | face-to-face |

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| Project name | Online Auction System |

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| 1. Short project description (Business needs and system features) |
| The Online Auction System (OAS) provides ability for people to shop different products with no fixed prices.  In addition to that it allows users to register, and administrators to manage the products and users. The system will be developed as a Single Page Application (SPA) using React.js as front-end. Each view will have a distinct URL, and the routing between pages will be done client side using React Router.  The main user roles are:  • Anonymous User – can only view the auction campaigns and items.  • Registered User – can see the auction campaigns, items and place bids for every active item.  • Administrator – can manage (create, edit and delete) all Registered Users, as well as campaigns, items and bids. |

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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Browse information, see campaigns and items** | The *User* can browse the information views (Home, About) in *OAS* and also active campaigns and items. | All users |
| * 1. **Register** | *Anonymous User* can register in the system by providing a valid e-mail address, first and last name, address, phone number, credit card number, and choosing password. By default, all new registered users have *registered user role*.  *Administrator* can register new user by entering *User Data* and choosing a Role (*registered user* or *Administrator*). | *Anonymous User, Administrator* |
| * 1. **Change User Data** | *Registered User* can view and edit personal *User Data.*  *Administrator* can view and edit *User Data* of all *Users* and assign them *Roles*: *Registered user*, or *Administrator*. | *Registered User, Administrator* |
| * 1. **Manage Users** | *Administrator* can browse and filter users based on different criteria: first and last name, email, Role, phone number.  *Administrator* can choose a *User* to manage, and can manage the chosen User - edit or delete.  *Administrator* can create a new user using *Register UC*. | *Administrator* |
| * 1. **Manage Campaigns** | *All Users* can browse and filter *Auction Campaigns* based on different criteria: name of *Campaign,* creation date, etc.  *Administrator* can create a new *Campaign and assign items to it.*  *Administrator* can choose a *Campaign* to manage, and can add or remove items, edit start and end day, change pictures and etc. | *Administrator, Registered user* |
| * 1. **Manage Items** | *All Users* can browse and filter items based on name, starting price and current bid, campaignname.  Only Registered users can place a bid for item.  *Administrator* can browse, create, edit and delete items. | *All Users* |
| * 1. **Schedule a Campaign** | *Administrator* can create campaigns with start day in the future. There campaigns remain inactive and read-only for all users. Users can only see the name, description and picture of the campaign. | *Administrator* |
| * 1. **Add/Edit Item, Campaign** | Only the *administrators* can add, edit and delete items in campaign or the campaign itself. | *Administrator* |
| * 1. **Place a bid for item** | Only Registered users can place a bid for item, when the campaign in which the item belongs is active. | *Registered user* |

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| 1. Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Home** | Presents the introductory information for the purpose of the system as well as detailed instructions how to start using it. Prominently offers ability to register. | / |
| * 1. **Auction Campaigns** | Presents all available (active and inactive) campaigns. | */campaigns* |
| * 1. **Campaign** | Presents all the items for one particular campaign | */campaign/:id* |
| * 1. **Bidded items** | Presents all items that the registered user placed a bid | */items/:userId* |
| * 1. **User Registration** | Presents a view allowing the *Anonymous Users* to register in *OAS* | */register* |
| * 1. **Login** | Presents a view allowing the users to login. | */login* |
| * 1. **User Data** | Presents ability to view and edit personal *User Data* and Item Bids. | */personal* |
| * 1. **Users** | Presents ability to manage (CRUD) Users and their User Data (available for *Administrators* only). | */users* |
| * 1. **About** | Presents information about the *OAS* project | */about* |

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| 1. API Resources | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Users** | GET *User Data* for all users, and POST new *User Data*. Available only for *Administrators*. | */api/users* |
| * 1. **User** | GET, PUT, DELETE *User Data* for *User* with specified *userId*, according to restrictions decribed in UCs. | */api/users/{userId}* |
| * 1. **Login** | POST *User Credentials* (e-mail address and password) | */api/login* |
| * 1. **Logout** | POST a logout request for ending the active session | */api/logout* |
| * 1. **Campaigns** | GET all Campaigns | */api/campaigns* |
| * 1. **Campaign** | GET, POST, DELETE one particular campaign | */api/campaigns/{campaignId}* |
| * 1. **items** | GET items according to the campaign they are in. | */api/items/{campaignId}* |
| * 1. **Bidded items** | GET, POST, DELETE registered user’s bidded items | */api/items/{userId}* |