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| Assignment 1 | | Project Summary | |
| Course | | Fullstack Application Development with Node.js + Express.js + React.js - 2017 | |
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| Project author | | | |
| № | Pseudonym | | Face-to-face/ online |
| f.n.61816 | Georgi Anchev | | face-to-face |
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| Project name | Prodavalnik |

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| 1. Short project description (Business needs and system features) |
| Online store to connect buyers with sellers. Purchase good products, find best deals and browse trending products. Filter results by your own preferences. You can create account, log in to purchase products with your profile. Add items to cart and leave reviews. 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 only view the products and reviews.  • *Registered User -* everything as anonymous user, also can leave product reviewsand add products to cart. |

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| 2. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| **2.1.** **Browse products** | The *User* can browse the products page (Home page) and find there: trending products, daily deals, and other products. | *Anonymous User, Registered User* |
| **2.2.** **Register** | *Anonymous User* can register in the system by providing a valid e-mail address, first and last name, and choosing password. | *Anonymous User* |
| **2.3.** **Log in/log out** | *Anonymous User* can log in with a registration, Facebook or google account. *Registered User* can log out. | *Anonymous User/Registered User* |
| **2.4.** **Browse product details** | *User* can view all data provided for a product and browse reviews for the product. | *Anonymous User, Registered User* |
| **2.5.** **Leave review and rating** | *Registered User* can leave a review and rating for a product. | *Registered User* |
| **2.6.** **Filter products** | The *User* can filter the products page (Home page) by categories and subcategories. | *Anonymous User, Registered User* |
| **2.7.** **Search products** | The *User* can search products by a keyword. | *Anonymous User, Registered User* |
| **2.8.** **Add product to cart** | *Registered User* can add products in their cart. | *Registered User* |
| **2.9.** **List products in cart** | *Registered User* can see the products in their cart listed. | *Registered User* |

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| 3. Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| **3.1.** **Home** | Contains a grid with trending products and a grid with top deal products. | / |
| **3.2.** **Register** | Form for user details. | */register* |
| **3.3.** **Product details** | Contains detailed view of a product, reviews for the product and id the user is registered – panel for uploading a review and rating. | */productDetails/{id}* |
| **3.4.** **Search Result** | Contains a grid with products relevant to the search term. | */searchResults/{keyword}* |
| ***3.5.*** ***Always visible items*** | The page has sidebar with categories and subcategories, search field, and log in/log out button. | */\** |

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| 4. API Resources (Node.js Backend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| **4.1.** **User** | GET, POST data for *User* with specified *userName*. | */api/users/{userName}* |
| **4.2.** **Categories** | GET all categories | */api/categories* |
| **4.3.** **Products** | GET all products with images, description, rating etc... | */api/products* |
| **4.4.** **Products by category** | GET all products for specific category. | */api/products/category/{categoryId}* |
| **4.5.** **Products by search term** | GET all products for specific search term. | */api/products/search/{searchWord}* |
| **4.6.** **TrendingProducts** | GET the top 20 trending products with images, description, rating etc... | */api/trendingProducts* |
| **4.7.** **TopDailyDeals** | GET the top 20 daily deal products with images, description, rating etc... | */api/topdDailyDeals* |
| **4.8.** **ProductDetails** | GET all information for a product with specified *productId*. | */api/products/{productId}* |
| **4.9.** **Reviews** | GET all reviews for specific product. | */api/products/{productId}/reviews* |
| **4.10.** **Review** | POST a review for specific product. | */api/products/{productId}/reviews/{reviewId}* |