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| Project name | Online Store |

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| Project author | | |
| № | Names of Participants | FN |
| 1 | Vladimir Iliev | 82167 |

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| 1. Short project description (Business needs and system features) |
| The main goal of the project is to implement a web application allowing the Users to register and buy from a web-shop different types of goods online and share their experience about bought products using comments and ratings on those products. In addition to that it allows users to login using their google accounts. The system will be developed using ***Golang and Postgres DB***.It will implement a web-based front-end client using ***HTML, JavaScript and CSS***. The backend will be implemented as a ***REST/JSON API*** using JSON data serialization. The main user roles are:  • *Anonymous User* – can only log in  • *Registered User* – can add products to the cart, sell/buy products, write comments, rate products, view user information. |

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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Browse products** | *A Registered User* can browse products. | *Registered User* |
| * 1. **View Account** | *A registered user can view their account details, as well as all products they have posted in the store* | *Registered User* |
| * 1. **Manage Products** | *A registered user can add products and update already existing products they have added.* | *Registered User* |
| * 1. **Add products to cart** | *A Registered User can add products he wants to buy to his cart.* | *Registered User* |
| * 1. **Buy Products** | *A Registered User can buy the products from his cart.* | *Registered User* |
| * 1. **Write comments** | *A Registered User can write comments under the products.* | *Registered User* |
| * 1. **Rate products** | *A registered user can rate the products* | *Registered User* |

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| 1. Main Views (Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Home** | Homepage for the online store presenting some of the bestselling products, search box, a login/logout button | /store/ |
| * 1. **Login** | Presents a view allowing the users to login via google using oauth2. | */store/login* |
| * 1. **User Account** | Provides ability to view the users account and products they have posted. Also allows the user to post new products on the store | */store/user/{userId}* |
| * 1. **Cart** | Shows the products added to the cart and allows the user to buy them | */store/orders/{cartId}* |
| * 1. **Product** | Show more information about a product. From here it can be added to the cart, or a comment can be left below it. The product can also be rated. If the product was created by the user viewing it, the product can be edited. | */store/products/{productId}* |

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| 1. API Resources (Backend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Users** | GET *User Data* for all users | */api/v1/users* |
| * 1. **Current User** | GET the current user from the session | */api/v1/users/me* |
| * 1. **User** | GET, PUT *User Data* for *User* with specified *user id*. | */api/users/{userId}* |
| * 1. **Login** | GET to redirect to oauth2 provider (Google) | */login* |
| * 1. **Logout** | GET request for ending the active session. | */logout* |
| * 1. **Products** | GET, POST products – to get all products or delete a product | */api/v1/products* |
| * 1. **Product** | GET, PUT, PATCH – get or update product, use PATCH for rating the product | */api/v1/products/{productId}* |
| * 1. **Images** | GET, POST – get all images for product or add an image for that product | */api/v1/products/{productId}/images* |
| * 1. **Image** | DELETE image for a product | */api/v1/products/{productId}/images/{imageId}* |
| * 1. **Orders** | GET, POST – get all orders by userId and status or just userId. Create a new order for the current user. | */api/v1/orders/* |
| * 1. **Order** | GET, PUT – get order or update order status | */api/v1/orders/{orderId}* |
| * 1. **Invoices** | GET – get invoice for an order | */api/v1/orders/{orderId}/invoice* |
| * 1. **Order Items** | GET, POST – get items for order, add item to an order | */api/v1/orders/{orderId}/items* |
| * 1. **Order Item** | DELETE – remove item from order | */api/v1/orders/{orderId}/items/{itemId}* |
| * 1. **Comment** | GET, POST, DELETE comments under products | */api/v1/products/{productId}/comments* |