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| Assignment 1 | | Project Summary | |
| Course | | Multimedia Technologies with Angular and TypeScript - 2020 | |
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| Project author | | | |
| № | Pseudonym | | Face-to-face/ online |
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| Project name | Online Pastry Shop |

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| 1. Short project description (Business needs and system features) |
| The ***Online Pastry Shop*** provides ability for people to explore new recipes, upload their own and shop different food and beverages as well. In addition to that it allows users to register, and administrators to manage them. The system will be developed as a *Single Page Application (SPA)* using ***Angular*** as front-end, and ***Node.js + Express*** as backend technologies. Each view will have a distinct URL, and the routing between pages will be done client side using ***React Router***. The backend will be implemented as a ***REST/JSON API*** using JSON data serialization. There will be also a real-time event streaming from the server to the web client using ***Socket.IO*** and ***Server Sent Events (SSE)/WebSocket*** in order to allow the Instructor to monitor test completion progress of students in real time. The main user roles (actors in UML) are:  • *Anonymous User* – can only view the products in the shop; cannot upload recipes, view recipes of other users or shop.  • *Registered User* – can upload recipes and shop  • *Administrator* (extends *Registered User*) – can manage (create, edit user data and delete) all *Registered Users*, add new products to the shop and edit recipes as well. |

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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Browse recipes and products** | The *Registered User* can go through the recipes of all users, and the products in the shop list in the Online Pastry Shop.  *Administrator can go through all recipes and products* | All users |
| * 1. **Register** | *Anonymous User* can register in the system by providing a valid e-mail address, first and last name, phone, address and choosing password. | *Anonymous User* |
| * 1. **Change User Data** | *Registered User* can view and edit their personal *User Data*.  *Administrator* can view and edit *User Data* of all *Users*. | *Registered User, Administrator* |
| * 1. **Manage Users** | *Administrator* can browse and delete users based on different criteria: wrong information, inappropriate content. | *Administrator* |
| * 1. **Add/Edit Recipes** | *Registered Users can add their own recipes to their profile and can remove them;*  *Administrator can edit/delete recipes of all Registered Users.* | *Registered User, Administrator* |
| * 1. **Add/Edit Comments and Rate** | *Registered Users can comment other users’ recipes and give them star rating; They cannot comment their own recipes;*  *Administrator can delete comments/comment the recipes.* | *Registered User, Administrator* |
| * 1. **Shop/ Delivery** | *All Registered Users can shop directly from the Online Pastry Shop by adding products to their cart.*  *Registered Users must select a delivery address.* | *Registered Users* |
| * 1. **Monitor Delivery Progress** | *Registered User monitors the progress of their delivery.* | *Registered Users* |

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| 1. Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Home** | Presents the latest products by the Online Pastry Shop, a short description for the history and aims of the site. | /main-page |
| * 1. **User Registration** | Presents a view allowing the *Anonymous Users* to register in *Online Pastry Shop*. | */register* |
| * 1. **Login** | Presents a view allowing the users to login. | */sign-in* |
| * 1. **User Data** | Presents ability to view and edit personal *User Data*. | */account* |
| * 1. **Recipes** | Presents ability to upload User’s own recipe delete and edit previous ones. | */my-recipes* |
| * 1. **Delivery** | Presents a view containing the product’s list, total sum ability for choosing a Pickup Point location; a view for credit card info; | */delivery* |
| * 1. **Users** | Presents ability to manage (CRUD) Users and their User Data (available for *Administrators* only, as described in Ucs). | */users* |
| * 1. **Products** | The newest products offered by the Online Pastry Shop are displayed on top of the page; | */shop* |
| * 1. **Shopping Cart** | Presents a view allowing the users to view the products they have chosen from the shop before proceeding to payment | */shopping-cart* |
| **3.10 Add product** | Available for *Administrators* only; Presents the ability for uploading new product to the shop | */add-product* |

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| 1. API Resources (Node.js Backend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Users** | GET *User Data* for all users, and POST new *User Data* | */api/users* |
| * 1. **User** | GET, PUT, DELETE *User Data* for *User*. | */api/users/{user}* |
| * 1. **Register** | GET User Data, POST User’s email, first name, last name , password | *api/register* |
| * 1. **Login** | POST *User Credentials* (e-mail address and password) and receive a valid *Security Token* to use in subsequent API requests. | */api/login* |
| * 1. **Logout** | POST a logout request for ending the active session. | */api/logout* |
| * 1. **Recipes** | GET, PUT, DELETE *recipes* | */api/{recipes}* |
| * 1. **Delivery** | GET, POST, PUT address | */api/delivery* |
| * 1. **Products** | GET, POST,PUT products in the shopping list | */api/list/{products}* |