Assignment 1	Project Summary
Course	Multimedia Technologies with Angular and TypeScript - 2020

Proj	Project author			
Nº	Pseudonym	Face-to-face/ online		
1	Mastro	face-to-face		

Project name	Car Service Search
--------------	--------------------

## 1. Short project description (Business needs and system features)

The Internet age changed the way we learn and test our knowledge. The *Car Service Search (CSS)* provides ability for service owners to register their companies and for users to search and rate them. 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. The main user roles (actors in UML) are:

- Anonymous User can only view the information pages and try few sample tests without saving test results.
- User (extends Registered User) can write comments, start new themes and rate the services.
- Car-service (extends Registered User) can offer its services.
- Administrator (extends Registered User) can manage (create, edit user data and delete) all Registered Users, as well as Car infos and comments.

2. Main Use Cases / Scenarios		
Use case name Brief Descriptions Action		
2.1. Browse information	The <i>User</i> can browse the information views (Home, Carinfos, Car-services, Blogs) in <i>CSS</i> .	All users

2.2. Register	Anonymous User can register in the system by providing a valid e-mail address, first and last name, and choosing password.  Administrator can register new by entering User Data and choosing a Role (User, Car-service, or Administrator).	
2.3. Change User Data	Registered User can view and edit his personal User Data.  Registered Services can edit their information.  Administrator can view and edit User Data of all Users.	
2.4. Manage Users	Administrator can browse 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 can create a new user using Register UC.	
2.5. Manage Car Infos	Administrator can browse and filter Cars based on different criteria: Car brand, model, year, etc.  Administrator can add or remove Cars.	
2.6. Manage blogs	Administrator can browse comments of all Users and Car-services, edit and delete them.	
2.7. Add/Edit comments	different readels agree and also for the agree on visco	
2.8. Rate Carservices		
2.9. Propose adding a new cars		
2.10. Signal for already inactive service  Users can send signal to the admin if they find registered Car-service that is no longer working.		User

## 3. Main Views (SPA Frontend)

View name	Brief Descriptions	URI
3.1. 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.	
3.2. Cars	Displays a list of all available car models and also an easy search filter.	/cars
3.3. Comments for specific car		
3.4. Services for a specific car model  Presents list of car-services who noted that they support the car.		/{{car model}} /appropriate- services
3.5. User Registration	Presents a view allowing the Anonymous Users and Service owners to register in CSS	
3.6. Login	Presents a view allowing the users to login.	/login
3.7. User Data	Presents ability to view and edit personal <i>User Data</i> , as well as deregister from <i>CSS</i> .	/personal
3.8. Services list	Presents ability to browse and filter the available registered car-services.	/services
3.9. Users	Presents ability to manage (CRUD) Users and their User Data (available for <i>Administrators</i> only, as described in UCs).	/users
3.10. About	Presents information about the CSS project 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 CSS and modified	/api/users	
	entity is returned as result from POST request).  Available only for <i>Administrators</i> .		
4.2. User	GET, PUT, DELETE <i>User Data</i> for <i>User</i> with specified <i>userId</i> , according to restrictions decribed in UCs.	/api/users/{userId}	
4.3. Login	POST <i>User Credentials</i> (e-mail address and password) and receive a valid <i>Security Token</i> to use in subsequent API requests.	/api/login	
4.4. Logout	POST a logout request for ending the active session with CSS, and invalidating the issued	/api/logout	

	Security Token.	
4.5. Cars list	GET Cars list.	/api/cars
4.6. Comment s	GET, PUT, DELETE comments for specific car.	/api/{carid}/comments
4.7. Car- services	GET services available for specific car.	/api/{carid}/services
4.8. More	There will be more, but now im not exactly sure what.	/