Assignment 1	Project Summary
Course	Fullstack Application Development with Node.js + Express.js + React.js - 2023

Р	Project author		
	Name	FN	
	Martin Marinov	OMI0800052	

Project name	PCBuilding
--------------	------------

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

Many people want to have a good computer configuration. They have a choice to buy ready one or make custom one. In my opinion people choose more the second option, but some of them don't know what parts to choose. So this app will connect users with experts and experts can give advices and say that the configuration is good or bad. If it is good everyone can see it so that people can decide if it fits their needs.

2. Main Use Cases / Scenarios		
Use case name	Brief Descriptions	Actors Involved
2.1. Browse information and view configurations	The <i>User</i> can browse the information views and see all approved by experts configurations.	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	Anonymou

	password. By default, all new registered users have User role. Administrator can register new by entering User Data and choosing a Role (User, Expert, or Administrator).	
2.3. Change User Data		
2.4. Manage Users	Administrator can browse and filter users based on different criteria: first and last name, email, Role. 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 Configurations	Experts and Administrators can browse and approve all configurations	Expret, Administrat or
2.6. Comment Configurations	Experts and Admins can put comments to the proposed configurations	Expert, Administrat or
2.7. Add/Edit Users can add new configuration and edit their configurations. Experts and Administators can edit each configuration		All users
2.8. Manage Parts Experts and Administrators can add or remove certain part from the list of available parts.		Expert, Administrat or
2.9. Manage Constraints	Experts and Administrators can add or remove certain constraint about parts compatibility	Expert, Administrat or

3. Main Views (SPA Frontend)		
View name	Brief Descriptions	URI
3.1. Home	Presents information for available	1

	configurations	
3.2. Parts	Presents ability to manage (CRUD) Users and their User Data (available for Administrators and Experts). Iparts	
3.3. Test Results	Presents information about given configuration Gives ability to administrators and experts to comment.	/configuration/ {configurationId}
3.4. Edit Configuration	Presents ability for user to edit his own configuration before aproval and to admins and edit/ experts to edit it whenever they want. /configuration//	
3.5. User Registration	Presents a view allowing the <i>Anonymous Users</i> to register.	
3.6. Login Presents a view allowing the users to login.		/login
3.7. User Data Presents ability to view and edit personal User Data /a		/account
3.8. Users	Presents ability to manage (CRUD) Users and their User Data (available for Administrators only).	
3.9. Constraints	Presents ability to manage (CRUD) Constrants (available for <i>Administrators</i> and Experts).	/constraints

4. API Resources (Node.js Backend)			
View name	Brief Descriptions	URI	
4.1. Users	GET <i>User Data</i> for all users, and POST new <i>User Data</i> Available only for <i>Administrators</i> .	/api/users	
4.2. User	GET, PUT, DELETE <i>User Data</i> for <i>User</i> with specified <i>userId</i> , according to restrictions described 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	/api/logout	

	session, and invalidating the issued <i>Security Token</i> .	
4.5. Parts	GET Parts, POST new Part, PATCH edit Part	/api/parts
4.6. Register	POST new User Data	/api/register
4.7. Configura tions	GET Configurations List and POST new Configuration	/api/configuration
4.8. Configura tion data	GET, PUT, PATCH, DELETE Configuration Data	/api/configuration/ {configurationId}
4.9. Approve Configura tion	POST Available for administrators only	/api/configuration/ {configurationId}/approve
4.10. Comm ents	POST Comment	/api/comments/
4.11. Edit Comment s	PATCH, DELETE Comment	/api/comments/ {commentId}
4.12. Constr aints	GET, POST	/api/constraints/
4.13. Edit Constrain ts	PATCH, DELETE Constraint	/api/constraints/ {constraintId}