Assignment 1	Project Summary	
Course	Fullstack Application Development with Node.js + Express.js +	
	React.js - 2020	

Project author		
Nº	Pseudonym	Face-to-face/ online
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Project name	Online Knowledge Jobing System
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1. Short project description (Business needs and system features)

PupCare provides 24/7 on-demand access to people seeking dog walking jobs as well as sitters and boarding services in your area. The system will be developed as a *Single Page Application (SPA)* using **React.js** 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 might also be an Android/iOS app (**React Native**) accompanying the website. The main user roles (actors in UML) are:

- Dog Carer (extends Registered User) can search for dog walking/sitting jobs in their area, apply for a job, submit post-walk reports.
- Dog Owner (extends Registered User) can register a job for dog sitting/walking, see profiles of dog walkers, has access to post-walk reports.
- Administrator (extends Registered User) can manage (create, edit user data and delete) all Registered Users, access walk reports, jobs.

2. Main Use Cases / Scenarios		
Use case name	Brief Descriptions	Actors Involved
2.1. Register	Anonymous User can register in the system by providing a valid e-mail address, first and last name,	Anonymou s User,

	and choosing password. By default, all new registered users have <i>Dog Owner</i> role.	Administrat or
	Administrator can register new by entering User Data and choosing a Role (Dog Owner, Dog Carer, or Administrator).	
2.2. Change User Data	Registered User can view and edit her personal User Data.	Registered User, Administrat
	Administrator can view and edit User Data of all Users or and assign them Roles: Dog Owner, Dog Carer, or Administrator.	
2.3. Manage Users	Administrator can browse and filter users based on different criteria: first and last name, email, Role.	Administrat or
	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.	
2.4. Manage Jobs	Dog Owner can browse her/his Jobs, add new Job using Add/Edit Job UC, and delete a Job, as well as view the Post-walk Reports attached to their own Jobs.	Dog Owner,, Administrat or
	Administrator can browse all jobs, edit and delete ther	
2.5. Add a Job	Dog Owner can browse her/his Jobs, add new Job using Add/Edit Job UC, and delete a Job, as well as view the Post-walk Reports for their own Jobs.	Dog Owner, Administrat or
	Administrator can browse jobs of all Dog Owners, edit and delete them.	
2.6. Add/Edit Job	Dog Owner or Administrator specifies/edits Job meta-data such as: Job name, subject, description, tags. Dog Owner or Administrator saves the edited Job.	
2.7. Apply for a Job	Dog Carer browses Jobs available and can sort and filter them using different Job metadata fields. Dog Carer chooses a Job to complete.	
2.8. Select Dog Carer		

2.9. Browse Job	Dog Carer can browse her own completed Job Results.	Dog Carer,
Results	Dog Owner can browse the Job Results for Jobs created by her/him and for particular Dog Carer Groups assigned to the Job.	Dog Owner
2.10. Complete Job	Dog Carer completes a Job by submitting a post-walk report: - questionnaire - uploaded photo of the walked pup	Dog Carer

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. Jobs	Presents Jobs available according to <i>User's Role</i> and identity. Offers abilities to browse, choose, create, read, update, delete (CRUD) Jobs, as defined by <i>UCs</i> (for <i>Administrators</i> and <i>Dog Owners</i> only).		
3.3. Apply Job	Presents a Job if available to particular <i>Dog</i> Carer allowing them to apply for it.	/jobs/:id	
3.4. Job Results	Presents Job Results available according to User's Role and identity as defined by UCs.	/job-results	
3.5. User Registration	Presents a view allowing the <i>Anonymous Users</i> to register in <i>OKTS</i> .		
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 /profile Data</i> .		
3.8. Dashboard	Dog Carer - Presents in real time the Dog Carer's progress on applied Jobs. Dog Owner - Presents in real time the Dog Owner's progress on created jobs.		
3.9. Users	Presents ability to manage (CRUD) Users and their User Data (available for Administrators only, as described in UCs). /users		

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> (Id is auto-filled by <i>OKTS</i> and modified entity is returned as result from POST request). 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 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 <i>OKTS</i> , and invalidating the issued <i>Security Token</i> .	/api/logout	
4.5. Jobs	GET users (according to <i>User's Role</i> and identity) and POST new <i>Job</i> (Id is auto-filled and modified entity is returned as result from POST request).	/api/jobs	
4.6. Job	GET, PUT, DELETE <i>Job Data</i> (including <i>Questions</i> and <i>Answers</i>) for <i>Job</i> with specified <i>jobId</i> .	/api/jobs/{jobId}	
4.7. Job Report	GET Job Result (according to User's Role and identity)) for Job with specified jobId, and POST new Job Result (Id is auto-filled and modified entity is returned as result from POST request).	/api/jobs/{jobId}/report	
4.8. Job Result	GET, PUT, DELETE Job Result (according to User's Role and identity) for Job with specified jobId and Job Result with specified jobReportId.	/api/jobs/{jobId}/results/ {jobReportId}	