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 PupCare	
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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,

	T	Administrat
	and choosing password. By default, all new registered users have <i>Dog Owner</i> role.	
	Administrator can register new by entering User Data and choosing a Role (Dog Owner, Dog Carer, or Administrator).	
2.2. 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.	
2.3. 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. Administrator can browse all jobs, edit and delete them.	
2.4. 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. Administrator can browse jobs of all Dog Owners, edit and delete them.	
2.5. 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.	Dog Owner, Administrat or
2.6. Apply for a Job	2.6. 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.	
2.7. Select Dog Carer		
2.8. Browse Job Results	Dog Carer can browse her own completed Job 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 Carer, Dog Owner

2.10. Complete Job	Dog Carer completes a Job by submitting a post-walk report:	Dog Carer
	questionnaireuploaded photo of the walked pup	

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.		
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 Data</i> .	/profile	
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.	/dashboard	
3.9. Users	Presents ability to manage (CRUD) Users and their User Data (available for <i>Administrators</i> only, as described in UCs).	/users	

4. API Resources (Node.js Backend)		
View name	Brief Descriptions	URI

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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	/api/users
4.2. User	request). Available only for <i>Administrators</i> . 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 User Credentials (e-mail address and password) and receive a valid Security Token to use in subsequent API requests.	/api/auth/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 <i>Jobs</i> (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/job
4.6. Job	GET, PUT, DELETE Job with specified jobld.	/api/job/{jobId}
4.7 Pet's Jobs	GET all Jobs with the specified petId	/api/job/pet/{petId}
4.8 Owner's Jobs	GET all Jobs with the specified ownerld	/api/job/owner/{ownerId}
4.9 Carer's Jobs	GET all Jobs with the specified carerld	/api/job/carer/{carerId}
4.7. Job Results for Job	GET Job Results for Job with specified jobld.	/api/jobResult/job/{jobId}
4.8 Job Results for Pet	GET Job Results for Pet with specified petId.	/api/jobResult/pet/{petId}
4.9 Job Results for Carer	GET Job Results for Carer with specified carerld.	/api/jobResult/carer/{carerld}
4.10. Job Result	GET, PUT, DELETE JobResult with specified jobResultId.	/api/jobResult/{jobResultId }
4.11 Pets	GET Pets (according to User's Role and identity) and POST new Pet (Id is auto-filled and modified entity is returned as result from POST request).	/api/pets

4.12 Pet	GET, PUT, DELETE <i>Pet</i> with specified <i>petId</i> .	/api/pet/{petId}