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	Social Platform for Volunteer Events
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1. Short project description (Business needs and system features)

Thanks to the Internet we now can connect people and volunteer causes and events to make the world a better place. The *Social Platform for Volunteer Events* provides ability for organizations to create causes(events) and for users to take part in any cause they wish. Users can register to gain access to a cause and administrators can manage the content, organizations and users on the site. 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. The main user roles (actors in UML) are:

- Unregistered user can view the available events and the information pages (Home, About) but not take part or see details.
- Registered user(User) can send a request to join a event, can write on the event dashboard, can fill a survey after attending a volunteer event.
- Organization can create a volunteer event and manage it.
- Administrator can manage (edit and delete) events and (create and delete) users, organizations.

2. Main Use Cases / Scenarios		
I IISO CASO NAMO I BRIGT I IOSCRINTIONS		Actors Involved
2.1. Browse information and events	The <i>User</i> can browse the information views (Home, About) in <i>SPVE</i> and read about the available events filtered by certain criteria.	All users

2.2. Register	Unregistered User can register in the system. They can register as users or organizations. Users provide a valid e-mail address, first and last name, city and choose password. Organizations provide name, address, email, phone number, summary of their work and choose a password. Administrator can register new by entering User Data and choosing a Role (User or Organization).	Unregister ed User, Administrat or
2.3. Change User Data	Registered User can view and edit his/her personal	
2.4. Sign in for an Event	If the <i>Organization</i> approves everyone, then the <i>User</i> has to only click the Participate option. If the <i>Organization</i> needs to approve participants based on their previous event participations or age for example, the <i>User</i> sends a request and is approved by the <i>Organization</i> .	User, Organizati on
2.5. Change Organization Data	Organization can view and edit its Organization Data and Events they created as well as create Event Codes for events. They can also delete an Event from their event list. Administrator can view and edit Organization Data of all Organizations.	
2.6. Add Event	Add Event Organization can add Events (with description, time, place, needed materials, etc. – metadata for the Event), create Event Code for participants at the Event (if needed). Events can be opened for everyone or they can require approval from the Organization.	
2.7. Approve User (optional)		
2.8. Manage Events Organization can browse its Events, add new Events using Add Event UC, approve participants, delete participants and delete an Event, as well as view Users' Surveys for a particular Events of its own. Administrator can browse Events of all Organizations, edit and delete them.		Administrat or, Organizati on

2.9. Manage Users	Administrator can browse and filter users based on different criteria: first and last name, email, city. 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.	Administrat or
2.10. Manage Organizations	<u> </u>	
2.11. Register at Event (optional)	If the registration needed and is not with <i>Event Code</i> , participants can fill their info (name and email) and this way the Organization can track who actually participated, so they can fill a survey using <i>Fill a Survey UC</i> , receive certificate or reward, if the Organization decides.	
2.12. View Event Details		
2.13. Write on Event Dashboard	Approved for the Event Registered Users and the Organization that created the event can ask and answer questions on the Event Dashboard.	
2.14. Fill a Survey (optional)		

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. Events	Presents events to Registered User with option for more details or participation request. Offers abilities to browse, choose, create, read, update, delete (CRUD) Events, as defined by <i>UCs</i> (for <i>Administrators</i> , <i>Organizations</i> and <i>Users</i> accordingly).	/events
3.3. Specific Event?	Presents specific event's details. If the <i>User</i> is approved by the creator, in this view he can see the event dashboard and post there. After the event there will be a survey here, as define by <i>UCs</i> . The <i>Organization</i> can see here the dashboard and the survey answers if there are any about this	
3.4. Register at Event (optional)	<u> </u>	
3.5. User Registration		
3.6. Login	Presents a view allowing the users to login as User or as an Organization.	
3.7. User Data	Presents ability to view and edit personal <i>User Data</i> , events he/she went to, as well as deregister from <i>SPVE</i> .	
3.8. Users	Presents ability to manage (CRUD) Users and their User Data (available for <i>Administrators</i> only, as described in UCs).	/users
3.9. Organizations	Presents ability to manage (CRUD) Organizations and their Organization Data (available for <i>Administrators</i> only, as described in UCs).	/organizations
3.10. About	Presents information about the <i>SPVE</i> 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	/api/users
	User Data (Id is auto-filled by SPVE and	,

	modified entity is returned as result from	
	POST request). Available only for	
	Administrators.	
4.2. User	GET, PUT, DELETE User Data for User	/ // // //
	with specified <i>userId</i> , according to	/api/users/{userId}
	restrictions described in UCs.	
4.3. Organization	GET, PUT, DELETE Organization Data for	, ,, , ,, ,,
3	Organization with specified organizationId,	/api/organizations/{organiz
	according to restrictions described in UCs.	ationId}
4.4. Login	POST User Credentials (e-mail address and	/ -// -
3	password) and receive a valid Security	/api/login
	Token to use in subsequent API requests.	
4.5. Logout	POST a logout request for ending the active	/ : // /
	session with SPVE, and invalidating the	/api/logout
	issued Security Token.	
4.6. Events	GET Event, and POST new Event (Id is	/ani/ayanta
	auto-filled by SPVE and modified entity is	/api/events
	returned as result from POST request), only	
	form Administrator or Organization,	
	according to identity security restrictions.	
4.7. Events	GET, PUT, DELETE <i>Event</i> in an	
	Organization's list of events with specified	
	organizationId.	
4.8. Events	PUT a new Event to a User's events or	/api/events/{eventId}
	DELETE an Event from his/hers events.	/api/events/{eventid}
4.9. Approved	GET the list of approved participants for an	/api/events/{eventId}/appro
participants	Event (with eventId).	ved
4.10. Attended	GET the list of attended participants.	/api/events/{eventId}/atten
	·	ded
4.11. Survey	GET survey results of an Organization's	/api/events/{eventId}/surve
results	specific Event.	y-results
4.12. Survey	POST a filled survey by user who attended.	/api/events/{eventId}/{userI
		<i>d</i> }
4.40		
4.13. More		

NOTES AND QUESTIONS: This is a preliminary idea and not all fields are completed. If the idea is good but not complicated enough there could be added a donation option for a Registered User to donate to an Organization. Some functionalities can be removed if they are unnecessary. I do not know if it is a better idea for Organizations to register on their own or for the Administrator to register them.