Assignment 1	Project Summary	
Course	Fullstack Application Development with Node.js + Express.js +	
	React.js - 2021	

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

Interband provides ability for bands to communicate and get to know each other by writing posts, posting and commenting on their albums and songs and creating and going to events. In addition, it allows users (bands) to register and later log in. 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 will be pagination on the suitable pages. The main user roles (actors in UML) are:

- Anonymous User can view all bands, albums, events and posts, but cannot comment albums, like/unlike posts and go/won't go to events nor create, edit and delete any of them. Anonymous users can do all that only after logging in (or registering).
- Registered User (Registered Users and Bands are interchangeable in the current scope) can use the main use cases stated below after logging in the system.

2. Main Use Cases / Scenarios		
Use case name	Brief Descriptions	Actors Involved
2.1. View home page (All Posts + Create post page)	Anonymous Users and Registered Users can visit the Home page of the system and see and search all the posts, but only Registered Users can create, edit, delete or like a post.	Anonymou s User, Registered User
2.2. View all bands	Anonymous Users and Registered Users can view a list of all the registered bands - the All Bands page.	Anonymou s User, Registered User

2.3. Register	Anonymous Users can register in the system by providing a valid e-mail address, band name, genre, band photo URL and a valid password, confirming it.	Anonymou s User
2.4. Login	Anonymous Users can log in the system by providing their e-mail address and password.	
2.5. Logout	Registered Users can log out of the system.	
2.6. Change User Data/Edit profile		
2.7. Create posts	Registered Users can create new posts, later appearing in All Posts page.	
2.8. Edit/Delete posts	Registered Users can edit/delete only their own posts.	Registered User
2.9. Like/unlike post Registered Users can like/unlike any post.		Registered User
2.10. View post details	·	
2.11. View all albums	3	
2.12. Create album with certain songs	with certain songs), later appearing in their own Profile page and in	
2.13. View album details	· · · · · · · · · · · · · · · · · · ·	
2.14. Comment album	3	
2.15. View All events	9	
2.16. Create event Registered Users can create events, later appearing in All Events page.		Registered User

2.17. Edit/Delete event	Registered Users can edit/delete only their own events.	
2.18. Go to event/Won't go to event	Registered Users can select the 'Go to event/Won't go to event' option on any event.	Registered User
2.19. View event details	Registered Users and Anonymous Users can see more details about a specific event.	Registered User, Anonymou s User
2.20. View own profile page	Registered Users can view their won Profile page – all the info they have given as well as their albums.	Registered User
2.21. View the profile of a specific band Registered Users and Anonymous Users can the info a specific band has provided as well a albums on their Profile page.		Registered User, Anonymou s Users

3. Main Views (SPA Frontend)		
View name Brief Descriptions UF		
3.1. Home page (All Posts + Create post page)	Presents a list of all the posts and their likes made by the bands as well as a view allowing bands to create, edit, delete or like/dislike a post and a view for post searching.	/posts
3.2. Post details page	Presents a view of additional information regarding a specific post	/posts/{postId}
3.3. All Bands page	Presents a list of all the registered bands and some short information - their band photo, genre, and name.	
3.4. Band's Profile page	Presents all the info a certain band has provided as well as their albums and songs. If this is the currently logged in band's page, the user can view and edit one's personal <i>User Data</i> .	/users/{userId}
3.5. All Events + Create event page	Presents a list of all the events and their goings selected by the bands as well as a view allowing bands to create, edit, delete or select the go/won't go option on an event.	/events
3.6. Event details page Presents a view of additional information regarding a specific event /event		/events/{eventI d}
3.7. All Albums + Create album page	Presents a list of all the albums made by the bands as well as a view allowing bands to create, edit or delete an album.	/albums

3.8. Album details + Comment album page	Presents a view of additional information regarding a specific album and allows users to leave a comment on this album.	/albums/{album Id}
3.9. Login page	Presents a view allowing the bands to login.	/signIn
3.10. Register page	Presents a view allowing the bands to register.	/signUp

4. API Resources (Node.js Backend)			
View name	Brief Descriptions	URI	
4.1. Users	GET User Data for all users.	/api/users	
4.2. User	GET, PUT <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 User Credentials (e-mail address and password) and receive a valid Security Token to use in subsequent API requests. /api/users/signIn		
4.4. Register POST new User Credentials (name, e-mail address, genre, image URL and password + confirmPassword) and receive a valid Security Token to use in subsequent API requests.		/api/users/signUp	
4.5. Posts	GET Post Data for all posts, and POST new Post Data.	/api/posts	
4.6. Search Posts	GET <i>Post Data</i> for all posts based on the search data.	/api/posts/search	
4.7. Post	GET, PUT, DELETE Post Data for Post with specified postId, according to restrictions described in UCs.	/api/posts/{postId}	
4.8. Like Post	PUT Post Data for Post with specified postId, according to restrictions described in Ucs when this Post has been liked/unliked.	/api/posts/{postId}/likePost	
4.9. Events	GET Event Data for all events, and POST new Event Data.	/api/events	
4.10. Event	GET, PUT, DELETE Event Data for Event with specified eventId, according to restrictions described in UCs.	/api/events/{eventId}	
4.11. Go to Event	PUT Event Data for Event with specified eventId, according to restrictions described in Ucs when this Event has gotten the go to/ won't go to option.	/api/events/{eventId}/goTo	
4.12. Album s	GET Album Data for all albums, and POST new Album Data.	/api/albums	
4.13. Album	GET, PUT, DELETE Album Data for Album with specified albumld, according to restrictions described in UCs.	/api/albums/{albumld}	

4.14. Comm	PUT Album Data for Album with specified	/api/albums/{albumld}/com
ent album	albumld, according to restrictions described in	, , , , , ,
	Ucs when this <i>Album</i> has been commented.	ment