

Devmix Site sprint1 report

1. Sprint – events and sessions

- Showing all the events, and accessibility is available for all users.
- The sessions for every event should be existed when the user clicks on a certain event.
- The admin user can insert, update, and delete any event or session.

I. Goals achieved

1. an API for get, post, delete, and update events, or even sessions inside a specific event
2. Database for the events using mongoDB
3. Only admin who can modify, delete, or even insert a new event/session.

II. Data representation

I decided to use the Denationalization techniques of saving the sessions for each event, cause it depends on the existing of the event firstly. It increases the performance

Event
-_id:(ObjectId) -name : String -cover_photo: string -description : string -date: Date() -sessions{ session_name:string, instructor_id:string, session_num:string, content-description:string, content_link:string }

User
-_id: ObjectId -username:string -email: email type -isAdmin: Boolean

III. Performance and testing

-Content-type: JSON/application

-Events count in Database: 4 documents

Request	Response	Maximum Time consuming
api/events (GET) (all users)	Events	205.940 ms

	Status-code: 200	
api/events/id (GET) (all users)	Event	7.259 ms
api/events/sessions/id (GET) (all users)	Sessions by event id	25.044 ms
api/events (POST) (Admin)	New Event	25.272 ms
api/events/id (PUT) (admin)	Update event	18.979 ms
api/events/id (DELETE) (admin)	Delete an event + return deleted	4.242 ms
api/events/sessions/id (POST) (admin)	New session to an event	62.172 ms

IV. Tools and languages

- Node.js : Run-time environment that executes and compile JavaScript as a server side.
- Express framework
- NPM : Node Package manager
- MongoDB
- Mongoose
- JOI
- Debug module
- config module
- helmet : for securing the HTTP
- Morgan module.
- JWT
- Middle-ware technique
- Information Expert Principle