

<b>Position</b>	Node.js intern
<b>Required skillset</b>	Javascript, Node.js

<b>DT Tech Stack</b>	Mongo DB, Node.js, NodeBB, Express framework, Confluence, Kafka, Nginx, React Native, Vanilla Javascript.
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<b>About NodeBB</b>	NodeBB is a forum software built using Nodejs as backend framework and MongoDB as its database. It uses tpl, javascript, jQuery for the frontend development
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<b>Why NodeBB</b>	NodeBB gives us the foundation with all the minimum required functionalities and good practices. It also has a well defined data model hierarchy which can be used for all the assets we planned to create.
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### Submission

You may upload your code to Github and share the link using this google form.

**Submission Link** <https://forms.gle/GCCjJDtZrnxmakLd6>

Once you submit your assignment, you'll get the Link to the next round Whatsapp group  
The link is shown on the screen, please copy and save the Whatsapp group link

### Task1: API Creation

You are given API documentation

You are asked to write the code for the API

### Task2: API documentation

You are given a functionality

You are asked to write the API documentation

### Why these tasks

Most of the hired Node.js developer's time goes into documentation and execution of APIs. These two tasks evaluate your ability to read, understand the requirements and the execute the backend.

### If hired, what would you be taught

All DT interns are trained on the complete Tech stack, irrespective of the specialization, so every has a holistic understanding of the development process. The interns also go through DT's socio-psychological learning models, level-5 leadership and DeepTech innovation training

Task 1

API Creation

Go through the documentation and create the API as instructed  
Front end is not required, you can show it on postman

Table 1

Widget	Request Type	Base URL	API Endpoint	Payload	Description
Event	GET	/api/v3/app	/events?id=:event_id	-	Gets an event by its unique id
	GET	/api/v3/app	/events? type=latest&limit=5&page=1	-	Gets an event by its recency & paginate results by page number and limit of events per page
	POST	/api/v3/app	/events	name, files[image], tagline, schedule, description, moderator, category, sub_category, rigor_rank	Creates an event and returns the Id of the event i.e. created
	PUT	/api/v3/app	/events/:id	Same as POST payload	
	DELETE	/api/v3/app	/events/:id	-	Deletes an event based on its Unique Id

Object Data Model of an event

**type:**"event"  
**uid:**18 (user id)  
**name:** Name of the event  
**tagline:** A proper tag-line for the event  
**schedule:** (Date + time) Timestamp  
**description:** String  
**files[image]:** Image file (File upload)  
**moderator:** A user who is going to host  
**category:** Category of the event  
**sub\_category:** Sub category  
**rigor\_rank:** Integer value  
**attendees:** Array of user Id's who is attending the event

Directions and Limitations

1 Do not use mongoose library for Nodejs instead use Mongodb library  
2 Link for library - <https://www.npmjs.com/package/mongodb>  
3 Do not write any schemas for storing and querying data  
4 We follow this data model consistency everywhere but not a fixed schema.  
5 No schema as the data might change slightly is based on the type of the asset  
6 You have to use '\_id' i.e the mongodb ObjectId of a document as the unique identifier

Why no schemas

1 We wouldn't want our code to be dependent on a particular schema.  
2 We would like to add or remove new fields freely.  
3 A particular schema restricts this.  
4 So, we use the mongodb module in place of mongoose (schema independent).  
5 We can also search based on any field

Task 2

API Documentation

Document the details about the API, the description of the API is given below

Nudge creation page wireframe

I want to create a nudge for Events

Tag article or event.

Title.... (60 char max)

Choose Image:

Scheduled on:  
dd/mm/yy

Timings:  
From: hh:mm to hh:mm

Description of the nudge:

For Viewing a Nudge at the end of an article:

Choose icon

Enter one line invitation.....  
Ex: (There's a great workshop on Reflections that's about to happen. Swipe right to check it out.)

Preview

Publish Now

Description about the page

- 1
- User can tag an event which he wants to create a nudge about and give this nudge a title.
- 2
- User should be able to upload a image which will be shown as a cover for the nudge
- 3
- Add a time at which the user wants to send the nudge
- 4
- The nudge will have a description
- 5
- This nudges will also have a icon and one line invitation which will be shown where the nudge is minimized or when it is shown along with a event/article

Steps to do

- 1
- Go through the wireframe in the image, it is a page where a user can create a nudge for his/her event
- 2
- Create a Object data model for the Nudge, you can use the above model for reference
- 3
- Write a documentation about how the api structure should be. The documentation should include the types of requests you want to perform, base url, API Endpoints, Payload and the description about the API
- 4
- You can use the above table(Table 1) for reference
- 5
- Write the documentation for the CRUD functionalitites