

# SoftUni Forum Workshop - Part 1

This application is created as a workshop for the [Angular Corse](#) @ [Software University](#)

## Task Requirements

You will be provided with skeleton (HTML and CSS). When starting the index.html, the following page will appear:

The screenshot shows the SoftUni Forum application interface. At the top is a blue header with the 'SoftUni Forum' logo on the left and 'Login' and 'Register' buttons on the right. Below the header is a navigation bar with 'Home', 'Themes', and 'New Theme' links. The main content area is divided into two columns. The left column displays a list of forum topics, each in a white box with a title, date, username, and subscriber count. The right column displays 'Recent posts' in a white box, showing a list of posts with titles, usernames, and timestamps. At the bottom of the page is a blue footer with a disclaimer and a link to the real SoftUni forum.

SoftUni Forum

Login Register

Home Themes New Theme

Angular 10

Date: 2020-11-07T07:19:59.933Z Subscribers: 5

Username: David

JS Advanced course

Date: 2020-11-07T07:23:27.015Z Subscribers: 5

Username: Johnny

React hooks - Pros and Cons

Date: 2020-11-07T07:25:04.060Z Subscribers: 3

Username: Donald

Express JS - How to deploy in Heroku

Date: 2020-11-07T07:27:41.098Z Subscribers: 1

Username: Stephan

Java Advanced

Date: 2020-11-07T07:29:48.433Z Subscribers: 1

Username: Janee

Recent posts

Angular 10

Silvester

2020-11-07T08:33:44.795Z

JS Advanced course

Silvester

2020-11-07T08:33:07.257Z

JS Advanced course

Pamela

2020-11-07T08:31:30.672Z

Java Advanced

Janee

2020-11-07T07:29:48.441Z

Express JS - How to deploy in Heroku

Stephan

2020-11-07T07:27:41.104Z

This site is designed to be used for training purposes at SoftUni.  
You can find the real SoftUni forum at this link:  
<https://softuni.bg/forum> Angular course Copyright &copy; 2020

The application is a forum, where each registered user can create a theme or post a comment. For now, your task is to check the given skeleton (HTML and CSS files) and **split them into components**, so each part can be **reusable**. Be careful when you structure the components.

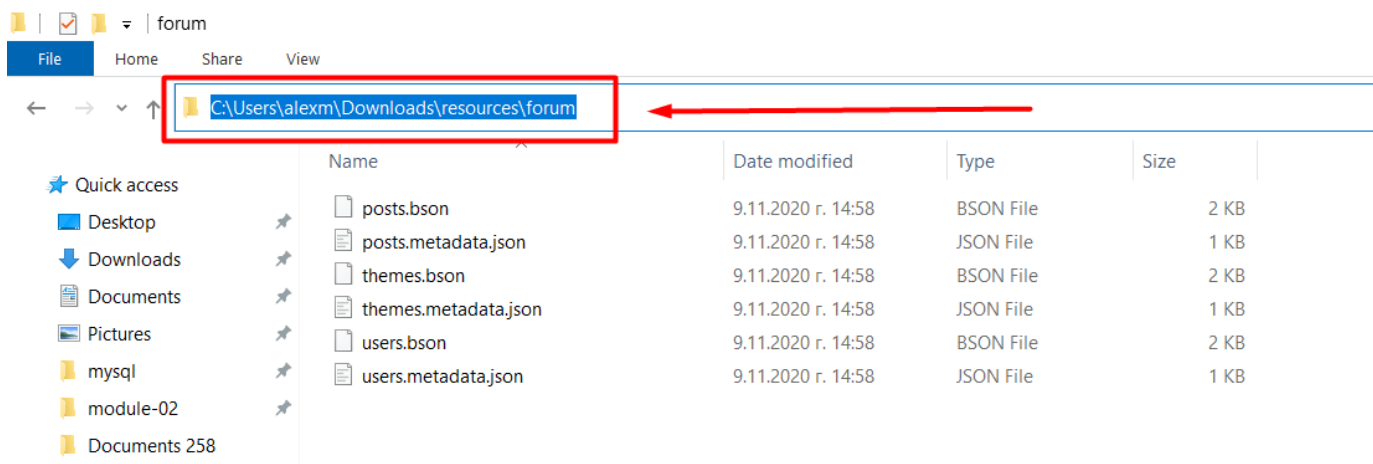
## MongoDB

Before you start with creating a new project in Angular you need to install MongoDB. You can find an installation guide in the provided document:

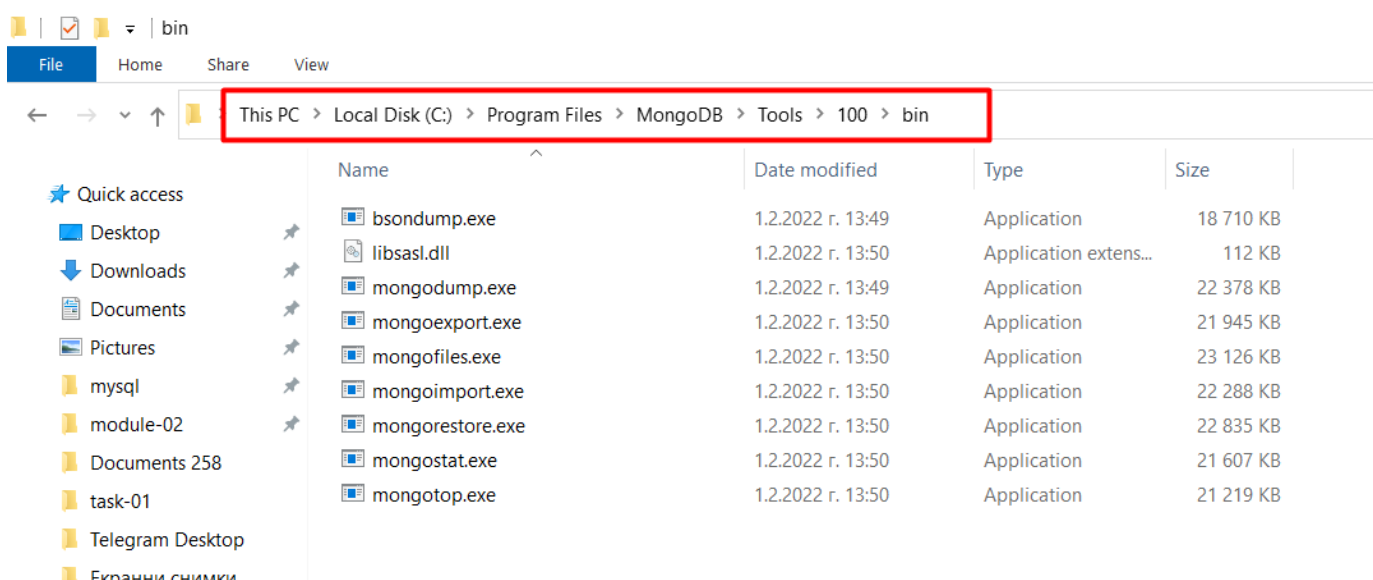
### MongoDB-Installation-Guide.docx

After the successful installation your database will be empty, so you can load the provided from us initial data in it as follows:

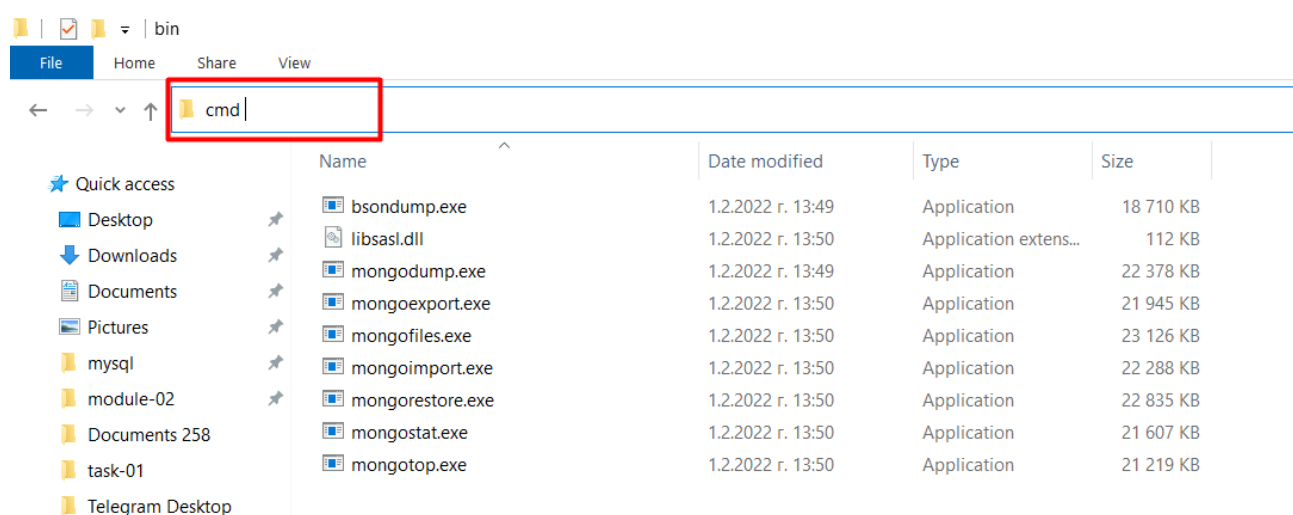
1. Download the provided folder named "resources".
2. Open the "forum" folder inside "resources" and copy the path:



3. Navigate to the mongo tools folder:



4. Open the command prompt inside of this folder



5. In the console write the following command:

**mongorestore -d forum C:\Users\Name\Downloads\resources\forum**

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.1526]
(c) Microsoft Corporation. All rights reserved.

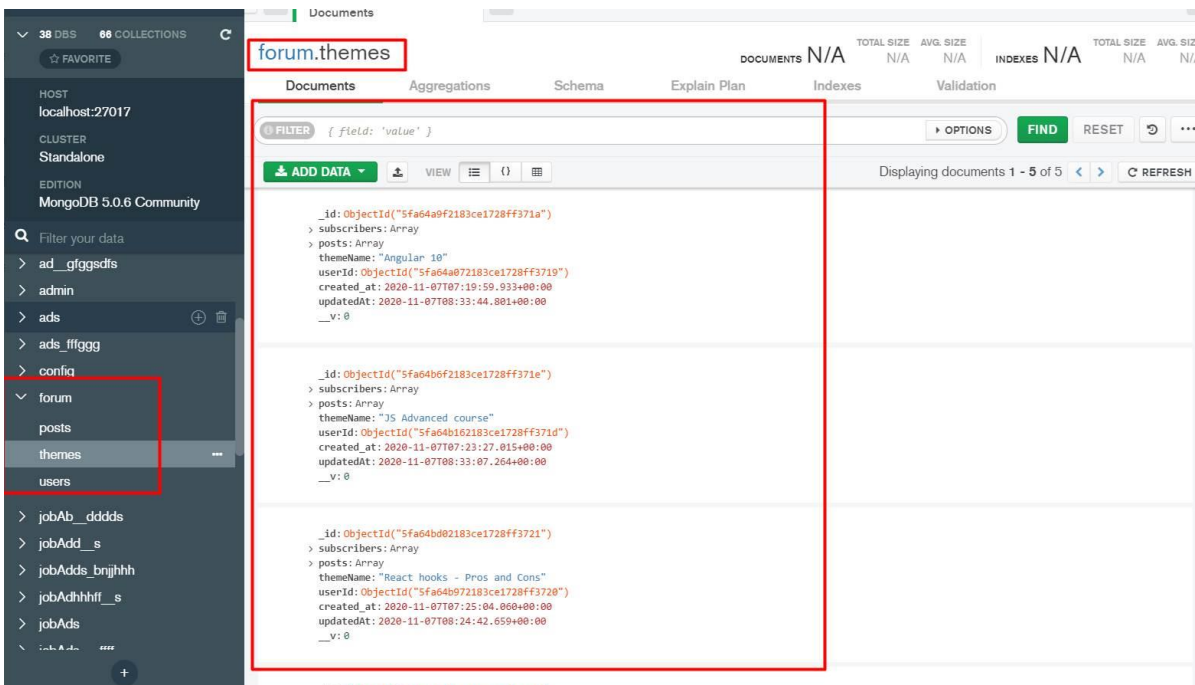
C:\Program Files\MongoDB\Tools\100\bin>mongorestore -d forum C:\Users\alexm\Downloads\resources\forum
```

- **Note\*** `C:\Users\Name\Downloads\resources\forum` – replace with the path of the folder "forum" in your computer that you copied in the beginning.
- You will see something like this:

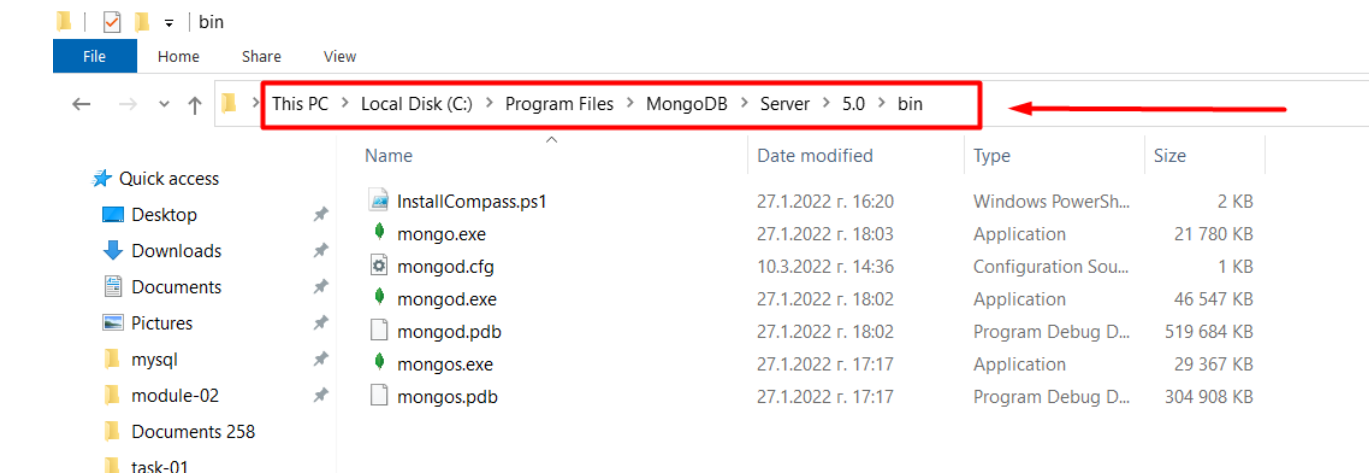
```
Microsoft Windows [Version 10.0.19043.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\MongoDB\Tools\100\bin>mongorestore -d forum C:\Users\alexm\Downloads\resources\forum
2022-03-15T21:48:16.705+0200 The --db and --collection flags are deprecated for this use-case; please use --nsInclude instead, i.e. with --nsInclude=${DATABASE}
2022-03-15T21:48:16.716+0200 building a list of collections to restore from C:\Users\alexm\Downloads\resources\forum dir
2022-03-15T21:48:16.716+0200 reading metadata for forum.posts from C:\Users\alexm\Downloads\resources\forum\posts.metadata.json
2022-03-15T21:48:16.717+0200 reading metadata for forum.themes from C:\Users\alexm\Downloads\resources\forum\themes.metadata.json
2022-03-15T21:48:16.717+0200 reading metadata for forum.users from C:\Users\alexm\Downloads\resources\forum\users.metadata.json
2022-03-15T21:48:17.029+0200 restoring forum.users from C:\Users\alexm\Downloads\resources\forum\users.bson
2022-03-15T21:48:17.068+0200 restoring forum.posts from C:\Users\alexm\Downloads\resources\forum\posts.bson
2022-03-15T21:48:17.084+0200 finished restoring forum.posts (8 documents, 0 failures)
2022-03-15T21:48:17.084+0200 restoring forum.themes from C:\Users\alexm\Downloads\resources\forum\themes.bson
2022-03-15T21:48:17.102+0200 finished restoring forum.themes (5 documents, 0 failures)
2022-03-15T21:48:17.359+0200 finished restoring forum.users (7 documents, 0 failures)
2022-03-15T21:48:17.359+0200 no indexes to restore for collection forum.posts
2022-03-15T21:48:17.360+0200 no indexes to restore for collection forum.themes
2022-03-15T21:48:17.360+0200 restoring indexes for collection forum.users from metadata
2022-03-15T21:48:17.360+0200 index: &idix.IndexDocument{Options:primitive.M{"background":true, "name":"email_1", "ns":"forum.users", "unique":true, "v":2},
PartialFilterExpression:primitive.D(nil)}
2022-03-15T21:48:17.360+0200 index: &idix.IndexDocument{Options:primitive.M{"background":true, "name":"username_1", "ns":"forum.users", "unique":true, "v":2
1}}, PartialFilterExpression:primitive.D(nil)}
2022-03-15T21:48:17.453+0200 20 document(s) restored successfully. 0 document(s) failed to restore.
```

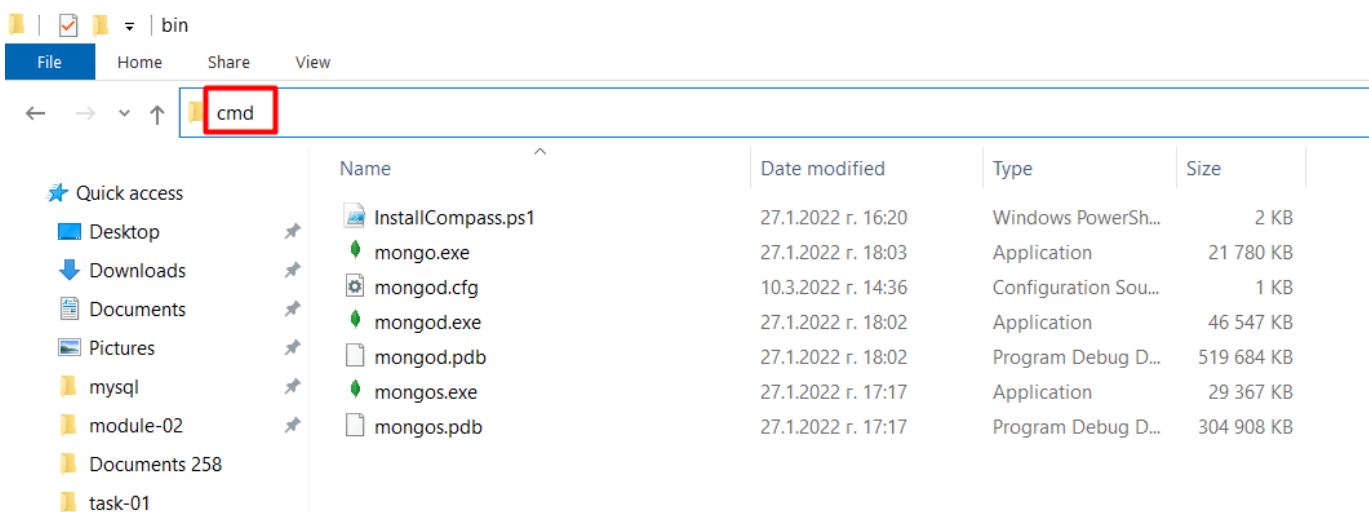
- That's it! You can now find the db in MongoDB Compass if you have installed it:



- If you haven't installed MongoDB Compass, you can check the DB in the following way:
- Navigate to the MongoDB server folder



- Open cmd inside of this folder



- Run the command "mongo"

```
Microsoft Windows [Version 10.0.19043.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\MongoDB\Server\5.0\bin>mongo
```

- Run the command "show dbs"

```
> show dbs
```

- You should be able to find and use the "forum" db

```
config          0.000GB
courses         0.000GB
cubes            0.000GB
exam             0.000GB
forum            0.000GB
hotels           0.000GB
job              0.000GB
local            0.000GB
```

- Install dependencies with the npm install command

```
(c) Microsoft Corporation. All rights reserved.

C:\Users\Mihail\Desktop\Rest-api>npm i

> bcrypt@5.0.0 install C:\Users\Mihail\Desktop\Rest-api\node_modules\bcrypt
> node-pre-gyp install --fallback-to-build

node-pre-gyp WARN Using needle for node-pre-gyp https download
[bcrypt] Success: "C:\Users\Mihail\Desktop\Rest-api\node_modules\bcrypt\lib\binding\napi-v3\bcrypt
_lib.node" is installed via remote

> nodemon@2.0.4 postinstall C:\Users\Mihail\Desktop\Rest-api\node_modules\nodemon
> node bin/postinstall || exit 0

Love nodemon? You can now support the project via the open collective:
> https://opencollective.com/nodemon/donate

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os
":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

added 257 packages from 187 contributors and audited 258 packages in 4.231s

10 packages are looking for funding
run `npm fund` for details

found 16 vulnerabilities (5 moderate, 10 high, 1 critical)
run `npm audit fix` to fix them, or `npm audit` for details

C:\Users\Mihail\Desktop\Rest-api>
```

```
node: Bad option:

C:\Users\Mihail\Desktop\Rest-api>node --version
v14.17.0
```

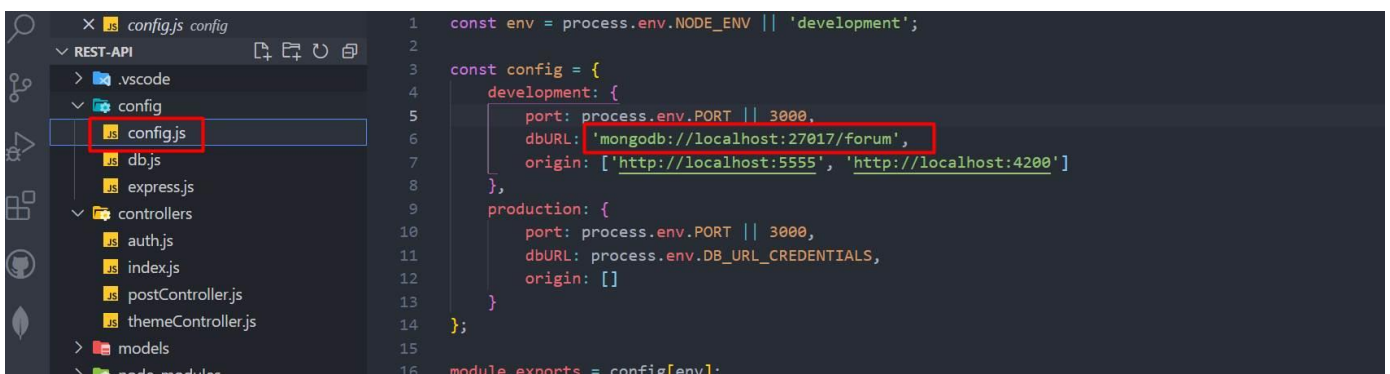
- With this version of node there is no problem to start the server. As it is not necessary to change anything.

```
C:\Users\Mihail\Desktop\Rest-api>npm start

> rest-api@1.0.0 start C:\Users\Mihail\Desktop\Rest-api
> node .

Listening on port 3000!
```

- If you have another version and it gives you an error, go to this configuration file and fix this dbURL:



```
1 const env = process.env.NODE_ENV || 'development';
2
3 const config = {
4   development: {
5     port: process.env.PORT || 3000,
6     dbURL: 'mongodb://localhost:27017/forum',
7     origin: ['http://localhost:5555', 'http://localhost:4200']
8   },
9   production: {
10    port: process.env.PORT || 3000,
11    dbURL: process.env.DB_URL_CREDENTIALS,
12    origin: []
13  }
14 };
15
16 module.exports = config[env];
```

## REST API

You are provided also with **REST API**. To bring life on that API you should first install the dependencies with the command "**npm install**". After that, type the command "**npm start**". In order to fetch the themes, you will have to make a **GET** request on "**localhost:3000/api/themes**".

## Logged/Unlogged User

**NOTE:** Because we haven't covered authentication yet (how to login and register), you can **hardcode** it with a **variable**.

**Logged out** users see the **Login** and **Register** buttons/links.

## Implementation of the Main Section

After the backend is ready to use, you should **fetch all themes** and **list them** on the home page in the format you saw in the skeleton.

The **themes in the main** section should be **descending sorted by the subscribers**.

Each theme should have a **title**, **date** (when the theme is created), the **username** of the creator, **count of the subscribers** of the theme.



## Angular 10

Date: 2020-10-10T12:08:28.451Z

Subscribers: 456

Username: David

## JS Advanced course

Date: 2020-04-10T15:08:28.431Z

Subscribers: 123

Username: Johny

## React hooks - Pros and cons

Date: 2019-12-12T22:16:27.351Z

Subscribers: 121

Username: Donald

## Express JS - How to deploy in Heroku

Date: 2020-10-06T19:18:28.433Z

Subscribers: 65

Username: Stephan

## Java Advanced

Date: 2020-08-10T11:48:45.411Z

Subscribers: 22

## Implementation of the Aside Section

In the **Recent posts** section, only the 5 latest posts must be shown! (<https://localhost:3000/api/posts?limit=5>)

The posts will be returned from the REST-api **sorted by the time of creation**.

Each component should have a **title (the title of the theme)**, a **username** of the user, whom the last comment in the theme belongs, and the **time** the post was created.

## Recent posts

Angular 10

*Silvester*

**2020-10-14T10:11:52.264Z**

React hooks - Pros and cons

*Jane*

**2020-10-10T08:15:52.464Z**

React hooks - Pros and cons

*Stephen*

**2020-10-04T18:51:22.264Z**

Java Advanced

*Tom*

**2020-09-30T13:25:55.254Z**

JS Advanced course

*Pamela*

**2020-08-12T07:31:44.564Z**

# ***GOOD LUCK!***