

Advanced web applications

Mandatory requirements

Feature	Points
Backend with Node.js	MAX
Database	MAX
Authentication	MAX
Features	-3
Responsive	MAX
Documentation	MAX
All points	22

Additional features

Feature	Points
Build frontend with React	4
Total points	26

Technology choices

Backend Express

MongoDB

JWT with local storage

Frontend React

JOY UI and Material UI

Backend was created with express template without view engine. Mongoose was chosen as database, and I used JsonWebToken for authentication. I decided to use React in frontend because there was something fascinating about React and of course Mikko Forsström who held visiting lecture sold me that React is best thing ever.

I used Joy UI and material UI. JOY UI is open-source React component library it that implements MUIs own in-house design principles. Material UI is used components that was not yet included in Joy UI. These libraries made making app responsive very easy.

Installation guide

<https://github.com/Tissinapa/projectCodeForum> link to repository.

Open link

Click green "Code" button

Select "Download ZIP"

Save it where you can find it

Extract all in some folder

Open VSC

Click file in top left corner -> select open folder and find the folder what you just extracted.

Open terminal

```
cd "that folder you just downloaded"
```

Now you are in root folder

```
npm install react-scripts
```

```
npm run preinstall
```

```
npm run install
```

```
npm run dev-concur
```

Now hopefully react should open homepage of the app.

User manual

First you need to register a user, then you need to login with that user, after that you can add questions in db.

Heads up with adding questions. You can comment on topics what you have already save in database all you need to insert the topic name what you just created and then add comments.

For example, you input in topic field "Does this work". In post field "posting something" and leave comment field empty. Now click submit and refresh page.

To comment on that post insert Does this work on topic field and add something to comment field.