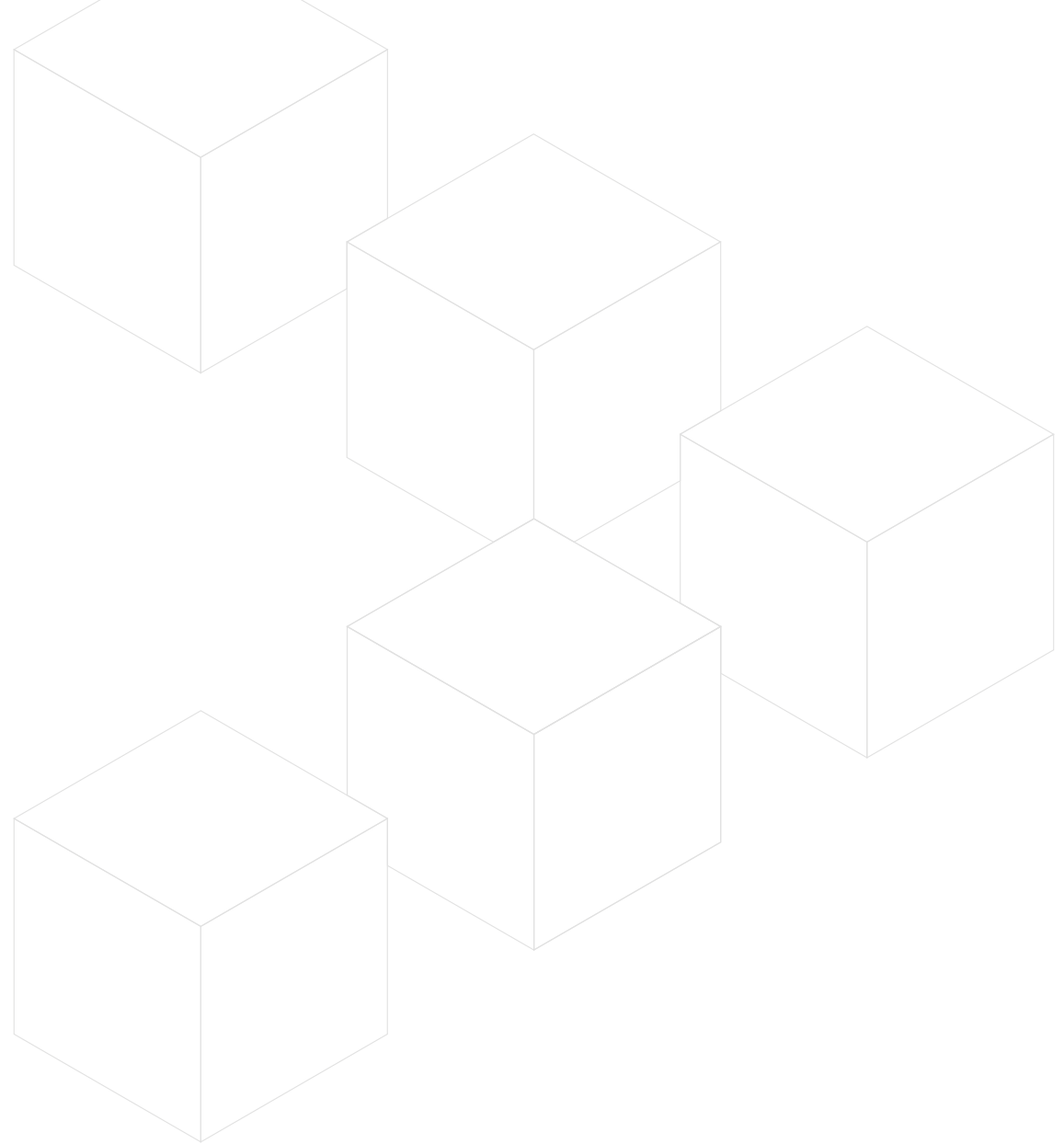# Webengineering

2017-06-19

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Roadmap 2017-06-19

- Feedback
- Still no ideas from you ;-)
- Problem solving
- Solution to exercises

- Code

- Exercises

Feedback

- No feedback yet for the second part

- Difficulty?

- Practical relevance?

- More theory?

Still no ideas from you ;-)

- Ok, to be honest: not many ideas

- Project task next week

- Ideas until Thursday 2017-06-22

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Problem solving

- Posting in our "forum" works :-)

- You can do it with your project too

- It is explicitly allowed to help your fellow students (even for the lecture project!)

- Scenario 1: missing heroku profile

- Scenario 2: strange endpoint

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Scenario 1 >> missing heroku profile

…

2017-06-15T13:52:34.843144+00:00 app[web.1]: Field addressService in com.micromata.webengineering.demo.post.PostController required a bean of type 'com.micromata.webengineering.demo.util.AddressService' that could not be found.

…

2017-06-15T13:52:34.843147+00:00 app[web.1]: **Consider defining a bean of type 'com.micromata.webengineering.demo.util.AddressService' in your configuration.**

2017-06-15T13:52:34.843147+00:00 app[web.1]:

2017-06-15T13:52:34.974082+00:00 heroku[web.1]: Process exited with status 1

Lokal funktioniert die Anwendung allerdings einwandfrei.

Nun habe ich den AddressService in der Anwendung aaskommentiert und es funktionierte auch auf Heroku.

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Scenario 2 >> strange endpoint

…

2017-06-17 14:50:41.066 WARN 14652 --- [nio-8080-
exec-3] .w.s.m.s.DefaultHandlerExceptionResolver : Failed to bind request
element:
org.springframework.web.method.annotation.MethodArgumentTypeMismatchException:
Failed to convert value of type 'java.lang.String' to required type
**'java.lang.Long'; nested exception is java.lang.NumberFormatException: For input
string: "index"**

Solution to exercises

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Functional components

- What is a functional component?
- What is the difference between a functional and a class-based component?

  - Syntactically

  - Semantically

- Modify the greeter example to be a functional component

  - free-form // play-time

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Add axios to your project

- What the heck is axios?

- Add it to your project

- How can you test that it works

  - Think about the simplest approach

  - When testing and playing around with libraries, quick and dirty is ok

  - ...but do not forget to clean up afterwards ;-)

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Play around with axios

- Use axios to
    - create a new post
    - retrieve the list of posts

- Since we are still playing around, think again about the simplest way possible

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Posts

- Create a component to show the list of existing posts
- Remove the example code
- Add your component

The fun begins :-)

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Code

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Today

- Let's ignore beauty (for now)
- Add a new post using input fields
- Delete a post

- Still no redux – we will use this approach
  - when components should communicate
  - for global application state
  - for cleaner design and separation of functionality

No beauty today...

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Exercises

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Authentication

- Add a new component for authentification
  - email
  - password
- On successful submit
  - set global axios header
  - what happens on reload?
  - how can you fix this? Hint: react-cookies
- Show a simple warning message if login was not successful
- Implement Logout mechanism

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Routing

- Idea
    - Single Page Application
    - Components on different endpoints in the browser
    - Solution: react-router

- install react-router (similar to axios)
- Move post_create component to a new route /post/new

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Post details

- Show all data of a post on a page /post/{id}
  - author
  - comments
- Add functionality to add comments

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