

@MALAGANT

WWW.RAILS-EXPERTS.COM

SINGLE UND TROTZDEM GLÜCKLICH - EINE EINFÜHRUNG IN METEOR

WAS IST METEOR?



SINGLE PAGE APPS MIT JAVASCRIPT

PRINZIPIEN

- Client rendered HTML
- Datenaustausch via DDP
- Javascript für alles (Client, Server, Datenbank)
- Latency Compensation
- Reactive Apps
- MongoDB



```
CURL HTTPS://  
INSTALL.METEOR.COM/ | SH
```

DEMO: TODOLISTE

APP GENERIEREN

- meteor create todos
- cd todos
- meteor

VIEWS MIT SPACEBARS

TEMPLATES = HTML + SPACEBARS

```
<head>
  <title>Todo List</title>
</head>
```

```
<body>
<div class="container">
  <header>
    <h1>Todo List</h1>
  </header>
```

```
    <ul>
      {{#each tasks}}
        {{> task}}
      {{/each}}
    </ul>
  </div>
</body>
```

```
<template name="task">
  <li>{{text}}</li>
</template>
```


JAVASCRIPT

```
if (Meteor.isClient) {  
  // This code only runs on the client  
  Template.body.helpers({  
    tasks: [  
      { text: "Aufstehen" },  
      { text: "Zähneputzen" },  
      { text: "Duschen" }  
    ]  
  });  
}
```

HTML DATEIEN
DEFINIEREN TEMPLATES

TODOS IN COLLECTIONS

```
Tasks = new Mongo.Collection("tasks");

if (Meteor.isClient) {
  // This code only runs on the client
  Template.body.helpers({
    tasks: function () {
      return Tasks.find({});
    }
  });
}
```

MONGO CONSOLE

```
db.tasks.insert({  
  text: "Hello world!",  
  createdAt: new Date()  
});
```

EINGABEFORMULAR HINZUFÜGEN

```
<form class="new-task">  
  <input type="text"  
    name="text"  
    placeholder="Type to add new tasks" />  
</form>
```


EVENTS

```
Template.body.events({
  "submit .new-task": function (event) {
    var text = event.target.text.value;

    Tasks.insert({
      text: text,
      createdAt: new Date() // current time
    });

    // Clear form
    event.target.text.value = "";

    // Prevent default form submit
    return false;
  }
});
```

SORTIEREN

```
Template.body.helpers({  
  tasks: function () {  
    return Tasks.find({}, {sort: { createdAt: -1}});  
  }  
});
```

LÖSCHEN UND ERLEDIGEN VON TASKS

```
<template name="task">
  <li class="{{#if checked}}checked{{/if}}">
    <button class="delete">&times;</button>

    <input type="checkbox"
      checked="{{checked}}"
      class="toggle-checked" />

    <span class="text">{{text}}</span>
  </li>
</template>
```

LÖSCHEN UND ERLEDIGEN VON TASKS

```
Template.task.events({  
  "click .toggle-checked": function () {  
    Tasks.update(this._id, {$set: {checked: !  
this.checked}});  
  },  
  "click .delete": function () {  
    Tasks.remove(this._id);  
  }  
});
```

DEPLOYMENT AUF METEOR.COM

- meteor deploy todo-ss2015.meteor.com

MOBILE: ANDROID

```
$ meteor install-sdk android
```

```
$ meteor add-platform android
```

```
$ meteor run android
```

MOBILE: IOS

```
$ meteor install-sdk ios
```

```
$ meteor add-platform ios
```

```
$ meteor run ios
```

SESSION DATA FÜR DAS UI

```
<label class="hide-completed">  
  <input type="checkbox"  
    checked="{{hideCompleted}}" />  
  Hide Completed Tasks  
</label>
```

EVENTHANDLING

```
"change .hide-completed input": function (event) {  
    Session.set("hideCompleted", event.target.checked);  
}
```

UPDATE DER HELPER

```
Template.body.helpers({
  tasks: function () {
    if (Session.get("hideCompleted")) {
      // If hide completed is checked, filter tasks
      return Tasks.find({checked: {$ne: true}}, {sort: {createdAt: -1}});
    } else {
      // Otherwise, return all of the tasks
      return Tasks.find({}, {sort: {createdAt: -1}});
    }
  },
  hideCompleted: function () {
    return Session.get("hideCompleted");
  }
});
```


INCOMPLETE INDICATOR

```
incompleteCount: function () {  
  return Tasks.find({checked: {$ne: true}}).count();  
}
```

```
<h1>Todo List ({{incompleteCount}})</h1>
```

LATENCY COMPENSATION

- Meteor schickt Daten an MongoDB
- Client geht davon aus, dass alles ok ist und zeigt das Ergebnis vorher schon an.

RESSOURCEN

- <https://www.discovermeteor.com/>
- <https://www.meteor.com/>
- <https://www.yauh.de/articles/376/best-learning-resources-for-meteorjs/>

A photograph of a mountain landscape at night. In the foreground, a glowing orange tent is pitched on a rocky ground. In the background, there is a large, rugged mountain with patches of snow. The sky is dark blue with some light streaks, possibly from a long exposure. A yellow rectangular box is overlaid on the image, containing the text "FRAGEN UND ANTWORTEN".

FRAGEN UND ANTWORTEN