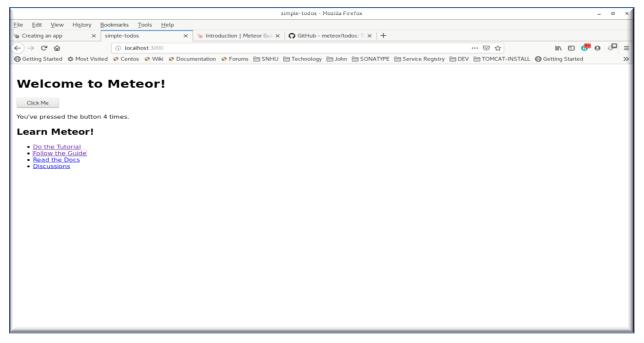
- 1. Describe the experience and what you hope to gain from participating in the experience.
 - This week's assignment was a very easy for me, I found no issues while trying to complete assignment.
 - 1. Reviewed weekly assignment material.
 - 2. Completed Coding assignment
 - 3. Tested written code
- 2. Provide an overview of tasks and key activities (training, discussions, labs, assessments, etc.) in which you were engaged during the week.

For week 5 I accomplished the following tasks in chronological order;

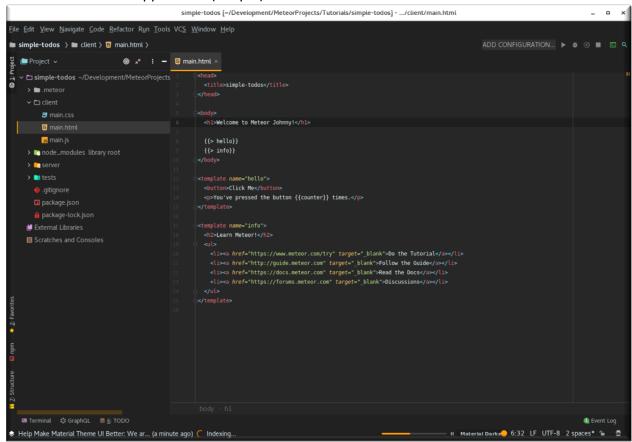
- ❖ Monday February 17, 2020, completed reviewing this week's assignment for the project.
 - ➤ I reviewed the Module 4 weekly assignment on the SNHU Brightspace. https://learn.snhu.edu/d2l/le/content/343560/Home
 - ➤ Installed Meteor on local CentOS Linux machine
 - ➤ Installed Mongo Docker Image to run mongo as container
 - ➤ Completed the Meteor Simple ToDos Tutorial at:
 - https://www.meteor.com/tutorials/blaze/creating-an-app
 - Installing Meteor

> Run Meteor for the first time

First Run Client View

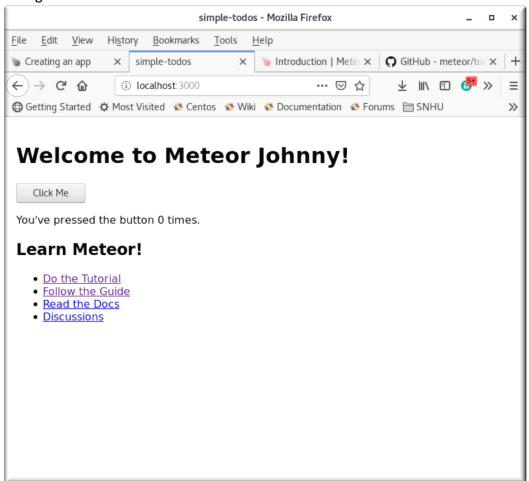


Added First Mod to Application (Simple)

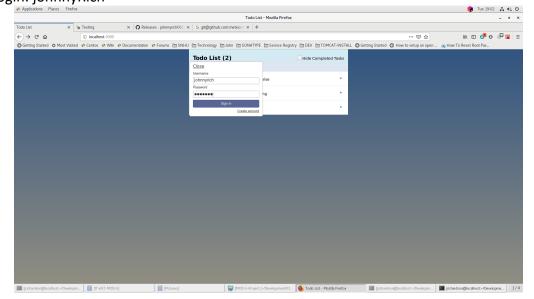


Client Updated from change

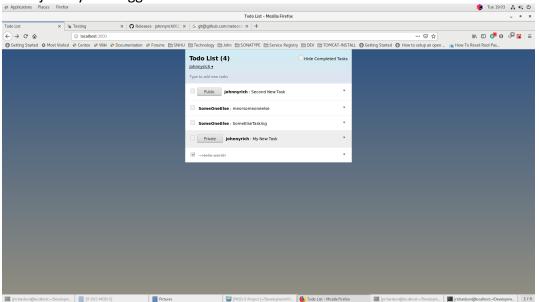
> Change reflected on client ui



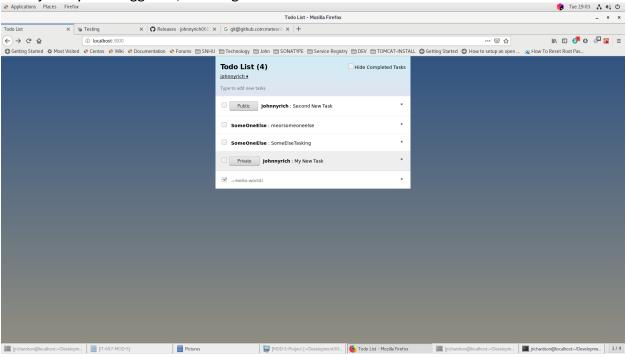
Completed Tutorial Simple Todo Login: johnnyRich



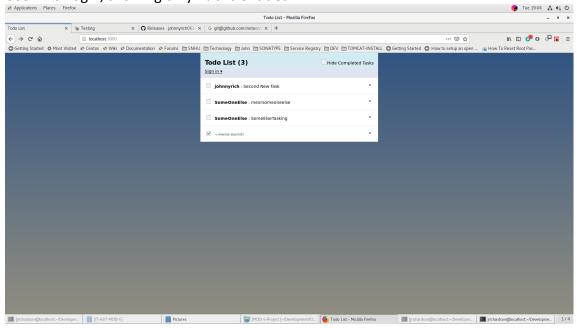
User: johnnyRich logged in



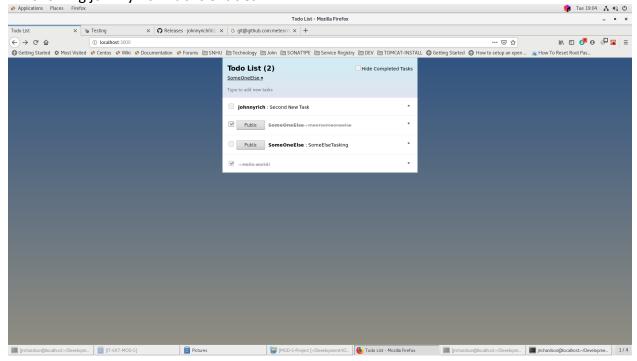
User: johnnyRich Logged in, showing Public and Private with selection buttons



User: No Login, showing only Public entities



User: SomeOneElse Logged in, showing allowed entities and controls for user, only showing johnnyRich Public entities



Client Meteor Code

Main.css

```
/* CSS declarations go here */
body {
  font-family: sans-serif;
  background-color: #315481;
  background-image: linear-gradient(to bottom, #315481, #918e82 100%);
  background-attachment: fixed;
  position: absolute;
  top: 0;
  bottom: 0;
  left: 0;
  right: 0;
  padding: 0;
  margin: 0;
  font-size: 14px;
.container {
  max-width: 600px;
  margin: 0 auto;
min-height: 100%;
  background: white;
header {
  background: #d2edf4;
  background-image: linear-gradient(to bottom, #d0edf5, #e1e5f0 100%);
  padding: 20px 15px 15px 15px;
  position: relative;
#login-buttons {
  display: block;
h1 {
  font-size: 1.5em;
  margin: 0;
  margin-bottom: 10px;
  display: inline-block;
  margin-right: 1em;
form {
  margin-top: 10px;
  margin-bottom: -10px;
  position: relative;
```

```
.new-task input {
  box-sizing: border-box;
  padding: 10px 0;
  background: transparent;
  border: none;
  width: 100%;
  padding-right: 80px;
  font-size: 1em;
.new-task input:focus{
  outline: 0;
ul {
  margin: 0;
padding: 0;
  background: white;
.delete {
  float: right;
font-weight: bold;
background: none;
font-size: 1em;
  border: none;
position: relative;
li {
  position: relative;
  list-style: none;
padding: 15px;
border-bottom: #eee solid 1px;
li .text {
  margin-left: 10px;
li.checked {
  color: #888;
```

```
li.checked .text {
  text-decoration: line-through;
li.private {
  background: #eee;
  border-color: #ddd;
header .hide-completed {
  float: right;
.toggle-private {
  margin-left: 5px;
@media (max-width: 600px) {
  li {
   padding: 12px 15px;
  .search {
  width: 150px;
    clear: both;
  .new-task input {
  padding-bottom: 5px;
```

Main.html

Main.js

```
import React from 'react';
import { Meteor } from 'meteor/meteor';
import { render } from 'react-dom';
import '../imports/startup/accounts-config.js';
import App from '../imports/ui/App.js';

Meteor.startup(() => {
   render(<App />, document.getElementById('render-target'));
});
```

tasks.js

```
import { Meteor } from 'meteor/meteor';
import { Mongo } from 'meteor/mongo';
import { check } from 'meteor/check';
export const Tasks = new Mongo.Collection('tasks');
if (Meteor.isServer) {
    // Only publish tasks that are public or belong to the current user
    Meteor.publish('tasks', function tasksPublication() {
    return Tasks.find({
              $or: [
                  { private: { $ne: true } },
                  { owner: this.userId },
             ],
    });
Meteor.methods({
     'tasks.insert'(text) {
         check(text, String);
         // Make sure the user is logged in before inserting a task
         if (! this.userId) {
              throw new Meteor.Error('not-authorized');
         Tasks.insert({
              text,
              createdAt: new Date(),
              owner: this.userId,
              username: Meteor.users.findOne(this.userId).username,
         });
    },
     'tasks.remove'(taskId) {
         check(taskId, String);
         const task = Tasks.findOne(taskId);
        // if there is no logged in user then return
         if(!this.userId) {
             return;
         }
         if (task.owner !== this.userId) {
             return:
```

```
Tasks.remove(taskId);
},
'tasks.setChecked'(taskId, setChecked) {
    check(taskId, String);
    check(setChecked, Boolean);
    const task = Tasks.findOne(taskId);
    if (! this.userId) {
        return;
    // Make sure only the task owner can check this as done
    if (task.owner !== this.userId) {
        return:
    Tasks.update(taskId, { $set: { checked: setChecked } });
},
'tasks.setPrivate'(taskId, setToPrivate) {
    check(taskId, String);
    check(setToPrivate, Boolean);
    const task = Tasks.findOne(taskId);
    if (task.owner !== this.userId) {
   throw new Meteor.Error('not-authorized');
    Tasks.update(taskId, { $set: { private: setToPrivate } });
},
```

tasks.test.js

```
});
});

it('can delete owned task', () => {
    // Find the internal implementation of the task method so we can
    // test it in isolation
    const deleteTask = Meteor.server.method_handlers['tasks.remove'];

// Set up a fake method invocation that looks like what the method

const invocation = { userId };

// Run the method with `this` set to the fake invocation
    deleteTask.apply(invocation, [taskId]);

// Verify that the method does what we expected
    assert.equal(Tasks.find().count(), 0);
});
});
});
});
```

accounts-config.js

```
import { Accounts } from 'meteor/accounts-base';
Accounts.ui.config({
    passwordSignupFields: 'USERNAME_ONLY'
});
```

AccountsUIWrapper.js

```
import React, { Component } from 'react';
import ReactDOM from 'react-dom';
import { withTracker } from 'meteor/react-meteor-data';
import { Tasks } from '../api/tasks.js';
import Task from './Task.js';
import AccountsUIWrapper from './AccountsUIWrapper.js';
// App component — represents the whole app
class App extends Component {
     constructor(props) {
          super(props);
this.state = {
               hideCompleted: false,
          };
     handleSubmit(event) {
          console.info("Called.....");
          event.preventDefault();
          // Find the text field via the React ref
          const text = ReactDOM.findDOMNode(this.refs.textInput).value.trim();
          Meteor.call('tasks.insert', text);
          // Tasks.insert({
                  createdAt: new Date(), // current time
owner: Meteor.userId(), // _id of logged in user
username: Meteor.user().username, // username of logged in user
          // Clear form
          ReactDOM.findDOMNode(this.refs.textInput).value = '';
     toggleHideCompleted() {
          this.setState({
               hideCompleted: !this.state.hideCompleted,
          });
     renderTasks() {
          let filteredTasks = this.props.tasks;
          if (this.state.hideCompleted) {
               filteredTasks = filteredTasks.filter(task => !task.checked);
          return filteredTasks.map((task) => {
               const currentUserId = this.props.currentUser &&
this.props.currentUser._id;
               const showPrivateButton = task.owner === currentUserId;
               return (
                    <Task
                         key={task._id}
                         task={task}
                         showPrivateButton={showPrivateButton}
                    />
               );
          });
     }
     render() {
```

```
return (
             <div className="container">
                 <header>
                      <h1>Todo List ({this.props.incompleteCount})</h1>
                      <label className="hide-completed">
                          <input
                               type="checkbox"
                               readOnly
                               checked={this.state.hideCompleted}
                               onClick={this.toggleHideCompleted.bind(this)}
                          Hide Completed Tasks
                      </label>
                      <AccountsUIWrapper />
                      {this.props.currentUser ?
                          <form className="new-task"</pre>
onSubmit={this.handleSubmit.bind(this)}>
                               <input
                                   type="text"
                                   ref="textInput"
                                   placeholder="Type to add new tasks"
                               />
                          </form> : ''
                      }
                 </header>
                 <l
                      {this.renderTasks()}
                 </div>
         );
export default withTracker(() => {
    Meteor.subscribe('tasks');
    return {
         tasks: Tasks.find({}, { sort: { createdAt: -1 } }).fetch(),
incompleteCount: Tasks.find({ checked: { $ne: true } }).count(),
         currentUser: Meteor.user(),
    };
})(App);
```

Tasks.js

```
import React, { Component } from 'react';
// Task component - represents a single todo item
import { Tasks } from '../api/tasks.js';
import classnames from 'classnames';

export default class Task extends Component {
    toggleChecked() {
        // Set the checked property to the opposite of its current value
        // Tasks.update(this.props.task._id, {
        // $set: { checked: !this.props.task.checked },
        // });
    Meteor.call('tasks.setChecked', this.props.task._id,
```

```
!this.props.task.checked);
   deleteThisTask() {
       Meteor.call('tasks.remove', this.props.task._id);
    togglePrivate() {
       Meteor.call('tasks.setPrivate', this.props.task. id, !
this.props.task.private);
    render() {
       // Give tasks a different className when they are checked off,
       // so that we can style them nicely in CSS
       const taskClassName = classnames({
           checked: this.props.task.checked,
           private: this.props.task.private,
       });
       return (
           <button className="delete" onClick={this.deleteThisTask.bind(this)}>
                   ×
               </button>
               <input
                   type="checkbox"
                   readOnly
                   checked={!!this.props.task.checked}
                   onClick={this.toggleChecked.bind(this)}
               />
               { this.props.showPrivateButton ? (
                   <button className="toggle-private"</pre>
onClick={this.togglePrivate.bind(this)}>
                      { this.props.task.private ? 'Private' : 'Public' }
                   </button>
               <span className="text">
                   <strong>{this.props.task.username}</strong> :
{this.props.task.text}
               </span>
           );
```

server/main.js

```
import { Meteor } from 'meteor/meteor';
import '../imports/api/tasks.js';

Meteor.startup(() => {
    // code to run on server at startup
});
```

tests/main.js

```
import assert from "assert";
import "../imports/api/tasks.tests.js";

describe("simple-todos-react", function () {
   it("package.json has correct name", async function () {
      const { name } = await import("../package.json");
      assert.strictEqual(name, "simple-todos");
   });

if (Meteor.isClient) {
   it("client is not server", function () {
      assert.strictEqual(Meteor.isServer, false);
   });
   }

if (Meteor.isServer) {
   it("server is not client", function () {
      assert.strictEqual(Meteor.isClient, false);
   });
   }

});
}
```

package.json, using external mongo from docker container

```
{
  "name": "simple-todos",
  "private": true,
  "scripts": {
    "start": "MONGO_URL=mongodb://localhost:27017/meteor meteor --port 3001 run",
    "test": "meteor test --once --driver-package meteortesting:mocha",
    "test-app": "TEST_WATCH=1 meteor test --full-app --driver-package
meteortesting:mocha",
    "visualize": "meteor --production --extra-packages bundle-visualizer"
},
    "dependencies": {
        "@babel/runtime": "^7.7.6",
        "bcrypt": "^3.0.8",
        "classnames": "^2.2.6",
        "jquery": "^3.4.1",
        "meteor-node-stubs": "^1.0.0",
        "react": "^16.12.0"
},
    "meteor": {
        "mainModule": {
            "client": "client/main.js",
            "server": "server/main.js"B},
        ,
        , "testModule": "tests/main.js"
},
        devDependencies": {
            "chai": "^4.2.0"
}
```

Start_ToDos_Client.sh

```
#!/bin/bash
echo -----
echo -----SIMPLE TODOs-----
echo ------
echo
echo
echo Starting Simple ToDos Tutorial.....
echo cd MOD-5-Project/Tutorials/simple-todos.....
# Chnage dir to exec dir
cd MOD-5-Project/Tutorials/simple-todos || exit
pwd
echo Running npm start....# You can set the connection string for any mongo instance here
# in the package.json file on the npm start line
# defualt for meteor is embedded mongo.
# start with npm to use selected Mongo running, (e.g in Docker or lan instance)
# in my case I am running mongo in a Docker container
npm start
echo Stopping Simple ToDos.....
echo -----
echo -----SHUTDOWN SIMPLE TODOS COMPLETE-----
echo -----
echo -----
```