



JavaScript Applications: Course Introduction

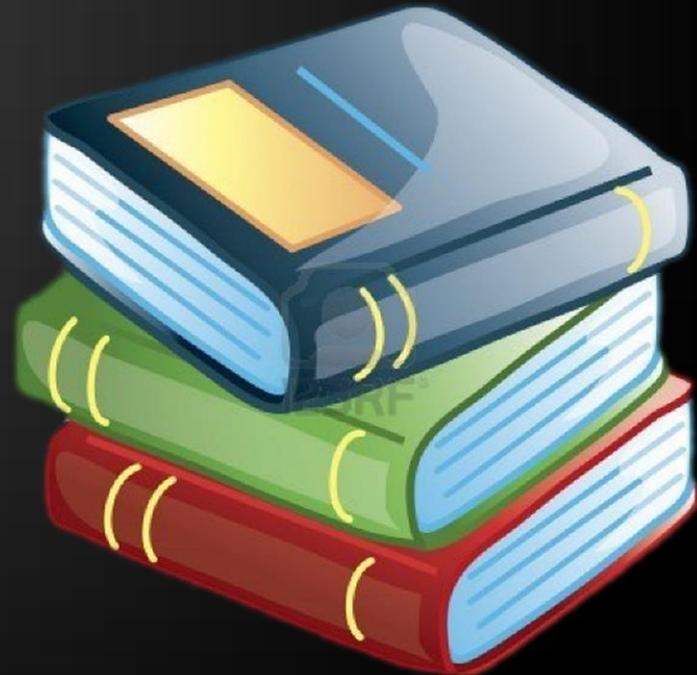
Course Program, Evaluation, Exams, Resources

Telerik Software Academy
Learning & Development Team
<http://academy.telerik.com>



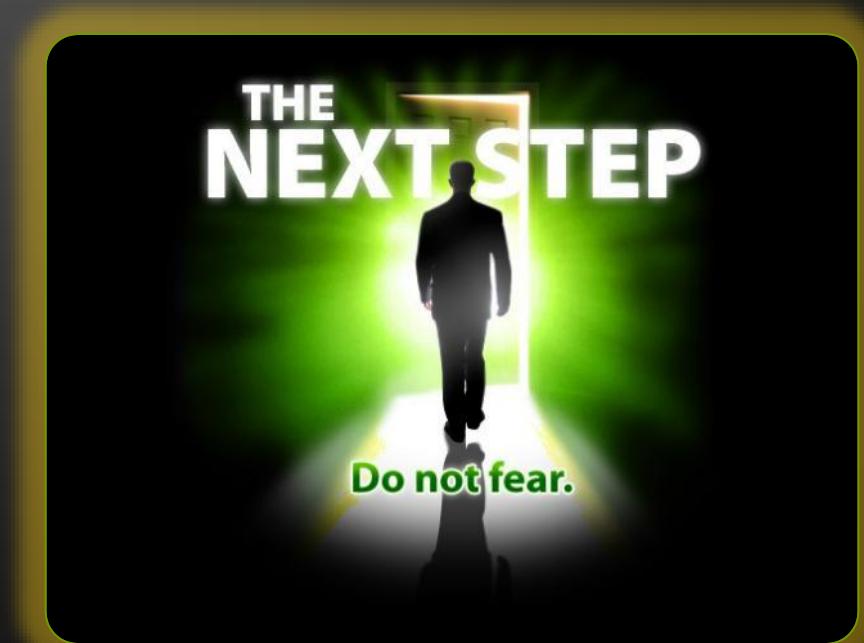
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JavaScript Applications

About to make the next step



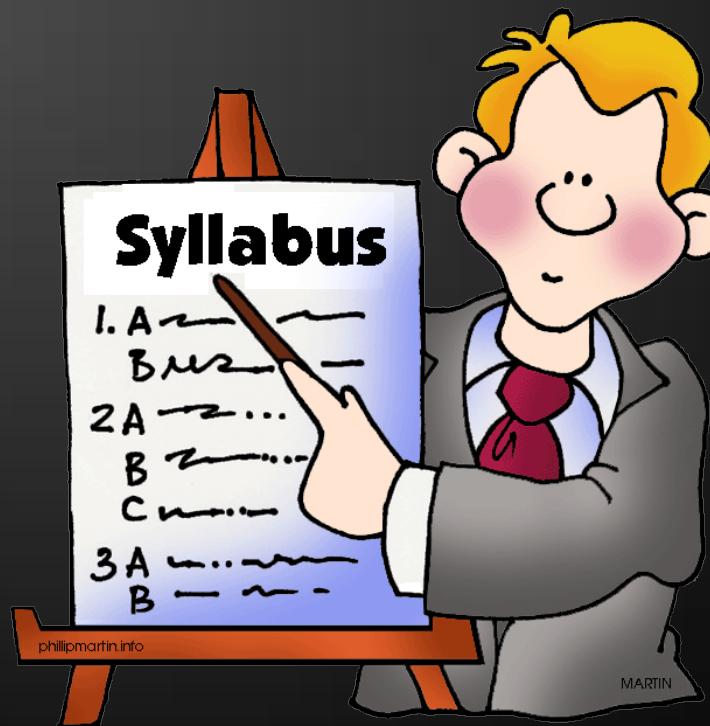
What's Coming Next?

- ◆ JavaScript Applications
 - ◆ Continuation of JS OOP & JS DOM & UI
 - ◆ Creating web applications with JavaScript
- ◆ Pretty much the same
 - ◆ Lectures 2 times a week
 - ◆ Practical exam on 29-Jul-2014
- ◆ The course exam
 - ◆ Creating a SPA application based on a given REST API



JavaScript Applications: Course Program

Material to cover during the course

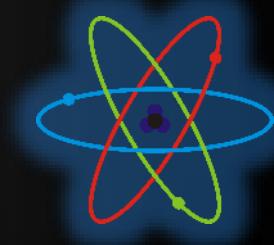


JavaScript Applications: Course Program

- ◆ "JavaScript Applications" course introduction
 - ◆ Course Program, Exams, Evaluation
- ◆ Best practices for writing JavaScript
 - ◆ Naming, scoping, `this`, `'use strict'`, etc...
- ◆ Dive into Underscore.js
 - ◆ JavaScript utility library
 - ◆ Iterating, filtering, and more

JavaScript Applications: Course Program (2)

- ◆ Web Storages
 - ◆ localStorage, sessionStorage, cookies
- ◆ Promises and Async programming in JavaScript
 - ◆ Async programming, Callbacks, Promises
- ◆ HTTP & AJAX
 - ◆ HTTP basics, HTTP methods, HTTP headears
 - ◆ AJAX principles, REST APIs, Web Services



JavaScript Applications: Course Program (3)

- ◆ Consuming Web Services
 - ◆ xhr, performing HTTP requests with JavaScript
 - ◆ Honeying the request – methods, headers
 - ◆ Using jQuery AJAX for HTTP requests
- ◆ App clouds for persistent data
 - ◆ Telerik Backend services
 - ◆ Content types
 - ◆ Users

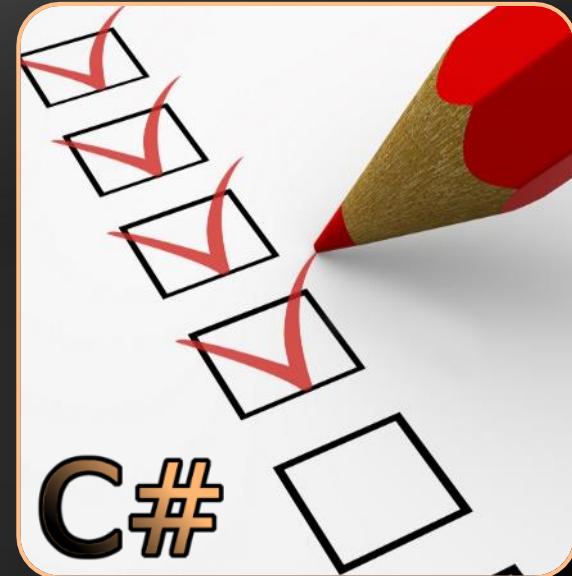


JavaScript Applications: Course Program (4)

- ◆ Unit Testing in JavaScript
 - ◆ Creating test suites and unit tests
 - ◆ Testing DOM manipulation
 - ◆ Async tests
 - ◆ Mocking and Spies
- ◆ App Architecture
 - ◆ SPA applications, separation of concerns, principles
- ◆ Practical exam

Evaluation

Thank God There Are Bonuses!



JavaScript Applications: Evaluation

- ◆ Evaluation components
 - ◆ Practical exam – 55%
 - ◆ Exam evaluation – 10%
 - ◆ Homework – 15%
 - ◆ Homework evaluation – 10%
 - ◆ 3 peer reviews per homework
 - ◆ Attendance in class – 10%
- ◆ Bonuses
 - ◆ Forums activity – bonus up to 5%

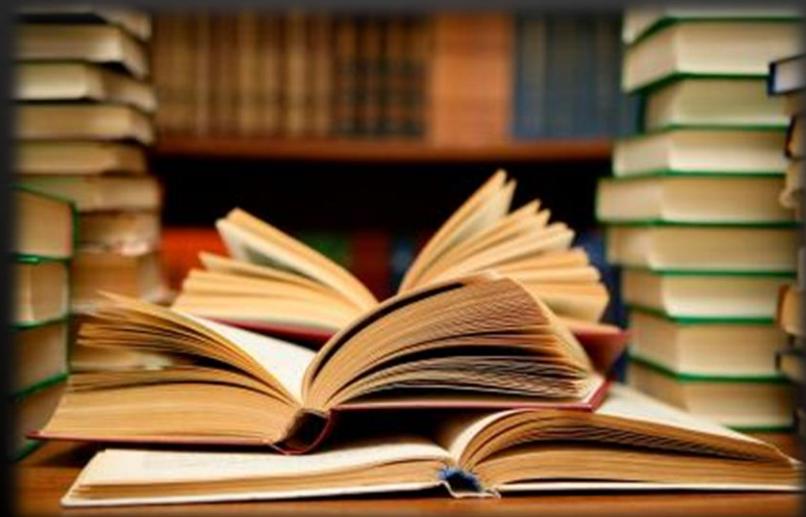


- ◆ Your task will be to create a SPA application by given REST API written in Node.js
 - ◆ Create a client running in the browser
 - ◆ Fetch data from the REST API and visualize it
 - ◆ Send data to the REST API
 - ◆ Validate input and handle errors
 - ◆ Unit tests in the selected framework
 - ◆ All using Require.js and Underscore.js

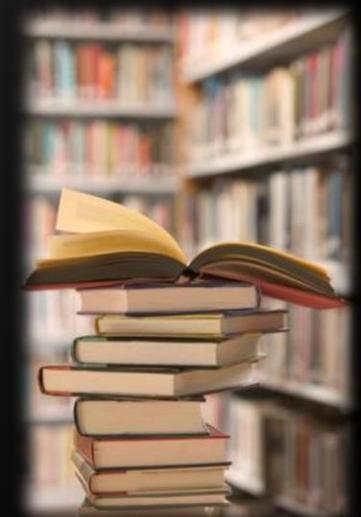


Resources

What We Need in Addition to this Course Content?



WIKIPEDIA
The Free Encyclopedia



JavaScript Resources

- ◆ Mozilla Development Network (MDN)
 - ◆ <https://developer.mozilla.org>
- ◆ Previous JavaScript apps courses:
 - ◆ [School Academy Feb 2014](#)
 - ◆ [Software Academy Jun 2013](#)

Course Web Site & Forums

- ◆ Register for the "Telerik Academy Forums":

<http://forums.academy.telerik.com/questions/front-end-development/js-apps>

- ◆ Discuss the course exercises with your colleagues
 - ◆ Find solutions for the exercises
 - ◆ Share source code / discuss ideas
-
- ◆ The JavaScript Fundamentals official web site:

academy.telerik.com/student-courses/web-design-and-ui/javascript-applications

Telerik Integrated Learning System (TILS)

- ◆ The Telerik Integrated Learning System (TILS)
 - ◆ www.telerikacademy.com
 - ◆ Important resource for all students
 - ◆ Homework submissions
 - ◆ Homework peer reviews
 - ◆ Presence cards with barcode
 - ◆ Reports about your results

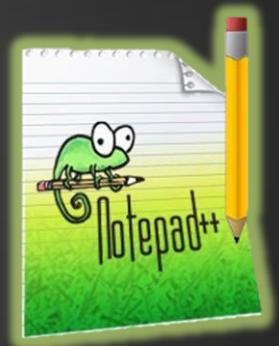


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Required Software

- ◆ Software needed for this course:

- ◆ Sublime Text 2/3
- ◆ WebStorm
- ◆ Brackets
- ◆ Notepad ++
- ◆ Microsoft Visual Studio 2013 or Visual Studio Express 2013 (free version of VS 2013)



JavaScript Applications Course Introduction



Questions?



Free Trainings @ Telerik Academy

- ◆ Web Design and UI Technologies
@ Telerik Academy

- ◆ html5course.telerik.com



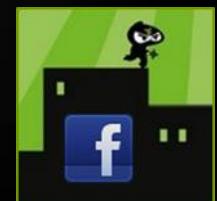
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