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Titel: Lesson plan

Version.:   Nyeste version: 0.51

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Beskrivelse:

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✎ Nyt afsnit   ⊙ Indsæt billede

Week	Lesson	Activity	Subject	Literature/videos: Read/watch before class	Exrcises: To do in and after class
36	1	Lecture and exercises	ASP.NET MVC • Introduction to Backend Programming • Introduction to the ASP.NET MVC • Introduction to Visual Studio • Introduction to C# ○ Types of variables ○ Type conversions ○ Arrays	Adam Freeman: Pro ASP.NET MVC 5, Chapter 1, 2 (pp. 11- 36), and chapter 14 Supplementary literature • C# Razor Syntax Quick Reference • Scott Guthrie: Introducing "Razor" – a new view engine for ASP.NET	Exercises
37	2	Lecture and exercises	Object Oriented Programming 1:2 • Using pre-defined classes and objects • Write you own classes • Use your the classes and objects in web applications	Object-oriented programming in C#: A Concise Introduction. pp. 1-28 Videos • C# From Scratch: Objects (Pluralsight, Jesse Liberty) This is the essential part, but it's a good idea to go through the lessons that leads up to the "Objects" lesson and absorb any parts you're not yet familiar with.	Exercises
38	3	Lecture and exercises	Object Oriented Programming 2:2 • Static and non-static members • Derived classes (inheritance) • Class hierarchy • The Object class	Object-oriented programming in C#: A Concise Introduction. pp. 28-62 Videos • C# From Scratch: Object Oriented Programming (Pluralsight, Jesse Liberty)	Exercises

			• Polymorphism • Type casting • Accessibility • Interfaces and Abstract classes	• C# From Scratch: Arrays and Collections (Pluralsight, Jesse Liberty)	
39	4	Lecture and exercises	Introduction to Mandatory Assignment 1 • Building the model • Display data		Mandatory assignment 1 Deadline for hand-in: Friday 30/9 at 16:00

40	5	Lecture and exercises	HTML Helpers in Views
			
			• Custom Helper Methods
			  ○ Inline Helper Methods
			  ○ External Helper Methods
			• Form Helper Methods
			• SelectList, SelectListItem
			• Templated Helper Methods
			• Model Metadata
				Freeman, chapter 21-22	Exercises

41	6	Lecture and exercises	URL Routing & Model binding • Route engine • Route collection • Model binding and strongly typed views • Extension methods in C#	Freeman, chapter 15, chapter 16 (pp. 415-29), chapter 24 Videos • K. Scott Allan: Controllers and Routing in MVC 4 (Pluralsight)	Exercises
42	Mid-term holiday				
43	7	Lecture and exercises	Views • View engines • Razor • Views, layouts, sections • Strongly typed views • Partial views • Child actions • Bootstrap	Freeman, chapter 20 (pp. 568-585 only) Supplementary literature • Dino Esposito: A Look at the Razor View Engine in ASP.NET MVC Videos • Razor Views (Pluralsight,	Exercises Mandatory assignment 2 Deadline for hand-in: Friday 28/10 at 16:00

				Scott Allan) • View Models (Pluralsight, Shawn Wildermuth)	
			• Areas • Bundling and minification Presentation of Assignment 2		
44	8	Lecture and exercises	Entity Framework 1:2 • Linq • Entity Framework • CRUD • Sorting, filtering, paging	Tom Dykstraa and Rick Anderson: Getting Started with Entity Framework 6 Code First using MVC 5, pp. 1-74 Supplementary / lookup • Entity Framework (msdn) Suplementary Videos • Getting started with Entity Framework 5: Code First (Pluralsight, Julie Lerman) • LINQ Fundamentals (Pluralsight, Scott Allan)	Exercises
45	9	Lecture and exercises	Entity Framework 2:2 • Code First Migrations • Fluent API • SQL inspection • Work with SQL and stored procedures	Tom Dykstraa and Rick Anderson: Getting Started with Entity Framework 6 Code First using MVC 5, pp. 92-103, 124-209 (pp. 191-209 are optional) Suplementary Videos • Getting started with Entity Framework 5: Code First (Pluralsight, Julie Lerman) • LINQ Fundamentals (Pluralsight, Scott Allan)	Exercises
46	10	Lecture and exercises	Model Validation • Manuel validation • Automatic validation with Data Annotations • Custom Data Annotations • Self-Validating Models • Displaying validation message • Attribute and Model validation • Client-Side validation	Freeman, chapter 25 Videos • Validation (Pluralsight, Shawn Wildermuth)	Exercises
47	11	Lecture and	Ajax	Freeman, chapter 23	Exercises

The lesson plan are subject to change!

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