INF5120 and INF9120 "Modelbased System development"

Lecture 3: 30.01.2017

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This Lecture, January 30, 2017

Introduction to Web and App UI development with WebRatio (with IFML)

Course parts (16 lectures) - 2017

- January (1-3) (Introduction to Modeling, Business Architecture and the Smart Building project):
- 1-16/1: Introduction to INF5120
- 2-23/1: Modeling structure and behaviour (UML and UML 2.0 and metamodeling) (establish Oblig groups)
- 3-30/1: WebRatio for Web Apps/Portals and Mobile Apps and Entity/Class modeling (Getting started with WebRatio)
- February (4-7) (Modeling of User Interfaces, Flows and Data model diagrams, Apps/Web Portals IFML/Client-Side):
- 4-6/2: Business Model Canvas, Value Proposition, Lean Canvas and Essence (Smart Building project) User stories and Use case
- 5-13/2: IFML Interaction Flow Modeling Language, WebRatio advanced for Web and Apps
- 6-20/2: BPMN process, UML Activ. Diagrams, Workflow and Orchestration modelling value networks
- 7-27/2: Modeling principles Quality in Models
- 27/2: Oblig 1: Smart Building Business Architecture and App/Portal with IFML WebRatio UI for Smart Building
- March (8-11) (Modeling of IoT/CPS/Cloud, Services and Big Data UML SM/SD/Collab, ThingML Server-Side):
- 8-6/3: DSL and ThingML, UML State Machines and Sequence Diagrams
- 9-13/3: UML Composite structures, State Machines and Sequence Diagrams II
- 10-20/3: Architectural models, Role modeling and UML Collaboration diagrams
- 11-27/3: UML Service Modeling, ServiceML, SoaML, REST, UML 2.0 Composition, MagicDraw
- 27/3: Oblig 2: Smart Building Internet of Things control with ThingML Raspberry Pi, Wireless sensors (temperature, humidity), actuators (power control)
- April/May (12-14) (MDE Creating Your own Domain Specific Language):
- 12-3/4: Model driven engineering Metamodels, DSL, UML Profiles, EMF, Sirius Editors
- EASTER 10/4 og 17/4
- 13-24/4: MDE transformations, Non Functional requirements
- 1. Mai Official holiday
- 14-8/5: Enterprise Architecture, TOGAF, UPDM, SysML DSLs etc.
- 8/5: Oblig 3 Your own Domain Specific Language
- May (15-17): (Bringing it together)
- 15-15/5: Summary of the course Final demonstrations
- 16-22/5: Previous exams group collaborations (No lecture)
- 17-29/5: Conclusions, Preparations for the Exam by old exams
- June (Exam)
- 13/6: Exam (4 hours), (June 13th, 0900)-1300



Course components

"Smart Building" 2+1 OBLIGS

Business Architecture
Engineering and
IFML (WebRatio) client -1

Software/System Architecture Engineering and ThingML Server -2

Model Driven
Engineering –
New DSL -3

Next Lecture, February 15, 2016

Business Architecture, Business Engineering and Business Model Canvas

- Introduction to Agile development
- Introduction to Team management using Upvawe.io for Scrum and Kanban
- Business Modeling, Business Engineering
- Lean Startup Lean Canvas



WebRatio, www.webratio.com







IFML General overview

IFML General Overview

IFML Modeling with WebRatio Platform

Modeler Beginner Model Interaction Flow

1,469 views Published on Nov 29, 2013 | Time 6 min

IFML

Applies to: 7.2 or higher

Developing the front-end of a user application is a costly and

inefficient process for a number of reasons.

WebRatio Platform has solved the User Interface modeling challenge by developing an interaction Flow Modeling Language, or IFML, which covers the existing gap in front-end application development. IFML supports the platform-independent description of graphical user interfaces for applications accessed or deployed on such systems as desktop computers, laptop computers, PDAs, mobile phones, and tablets.

IFML describes user interaction, and control behavior of the application, as perceived by the end user. IFML doesn't focus on the graphics and design of an application, but you can use it to deliver high quality interfaces nonetheless, by using tools for importing graphic resources or templates.













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The Problem

The Solution

IFML Objectives

IFML and Extensions

Essential IFML Modelling Concepts

Extension IFML Modeling Concepts

https://my.webratio.com/learn/learningobject/ifml-general-overview-v-72?link=oln72ae.redirect&nav=14&cbck=wrReq10172







WEBRATIO WEB PLATFORM

FOCUS ON CREATIVE TASKS AND BUILD COMPOSITE WEB APPS IN A FRACTION OF THE TIME

Focus your time and energy on creative and value-added tasks. Let WebRatio Web Platform automatically handle the most tedious tasks, such as database access, service integration and page composition. Embrace our model-driven approach and achieve speed, agility and reliability.

TRY IT NOW

WEBRATIO WEB PLATFORM FEATURES

















WebRatio Mobile Platform



WEBRATIO MOBILE PLATFORM

BUILD AMAZING MOBILE APPS IN DAYS, NOT MONTHS, WITHOUT WRITING A SINGLE LINE OF CODE

Start developing, even when your requirements are unclear or volatile. Proceed at full speed with extreme agility, but at the same time with robustness and reliability. Design the App through a real prototype; no more need to use static wireframes or mockups. WebRatio Mobile Platform is designed to support you in this challenge.

TRY IT NOW

WEBRATIO MOBILE PLATFORM FEATURES













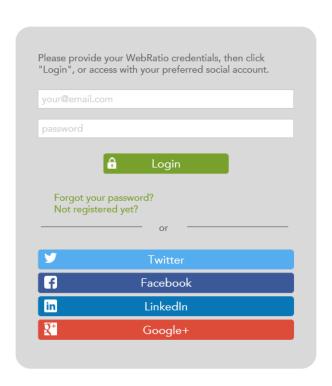
(30 min) Introduction video for WebRatio:



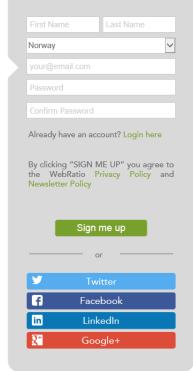
https://www.youtube.com/watch?v=UNG8FK3wEjA

Register as a new user

Register as user at webratio.com (use uio.no e.mail address in the WebRatio community)

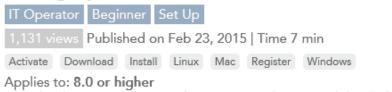






Installing WebRatio Mobile Platform

Setting Up WebRatio Mobile Platform



Downloading, registering, and activating WebRatio Mobile Platform involves several decisions that are not easy to take without proper knowledge.

Attend this lesson to understand all the steps and to find some help if something goes wrong.

















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Lesson Overview

Online Registration

Install WebRatio Mobile Platform

Install WebRatio Mobile Platform for Mac

Install WebRatio Mobile Platform for Linux

Install WebRatio Mobile Platform for Windows

Activate WebRatio Mobile Platform

https://my.webratio.com/learn/pcu1x?pcp1x=setting-up-webratio-mobile-platform-v-80&sp=page24t&link=ln230x&fllbck=.sv2

