Schedule

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Advanced Web Development

List of Topics and Schedule

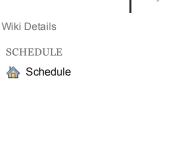| Week (Class date)	Topics
1 (2/2)	**Introduction** *Project teams* *Presentation topics*

2 (2/9)	**Model-View-Controller, and Rails**
	
	Readings:
	
	   ■ Waterfall software development model, Java Blueprint
	   ■ Model-View-Controller
	   ■ Rails book, Chap 1-4

3 (2/16)	**Models, Databases, and Object-Relational Mapping** *Reading (used by instructor):* ■ Rails book, Chap 1-5 (skim Chap. 1) *Presentation:* Boehm, B.W., A spiral model of software development and enhancement, IEEE Computer, May 1988, pp. 61-72 Presenter: Kevin Kuo **Version Control**
4 (2/23)	**Basic Models, Views, and Controllers – The Depot Project**

Reading (used by instructor):

- Rails book, Chap 6, 8

Presentation:

Lerman, C. and V. Basili, Iterative and incremental developments: a brief history, IEEE Computer, June 2003

Presenter: Sigrid Berkebile

Presentation:

Zakas, N, the evolution of Web Development for mobile Devices

Presenter: Raj Patel

Mini project: The Depot project (chapter 6, 8)

Project proposal due

Assignment 1 out

5 (3/1)   Sessions, Project Kickoff

Reading (used by instructor):

- Rails book, Chap 7-8

Presentation:

Beck, K., Embracing Change with Extreme Programming, IEEE Computer. 32(10), p. 70-77, 1999.

Presenter: Mary Snyder

Presentation:

Rich Harris. 2015. Dismantling the Barriers to Entry. Queue 13, 5

Presenter: Xiaoquan Sun

Sprint 0 - Writing stories, group coordination

6 (3/8)   Field trip - Rails Meetup

Presentation:

Kate Matsudaira. 2015. Lean Software Development - Building and Shipping Two Versions. Queue 13, 8

Presenter: James Rehak

Presentation:

Savage, Taylor. "Componentizing the web." *Communications of the ACM* 58.11 (2015): 55-61.

Presenter:Yangjun Lu

7 (3/22)   Active Records

Reading (used by instructor):

- Rails book, Ch. 19, 23
- Coulon, X. Hibernate simplifies inheritance mapping

Presentation:

Web Applications - Spaghetti Code for the 21st Century

Presenter: Thomas Stephens

WebRB - A different way to write web application

Presenter: Cho Fung Chim

Assignment 2 out

Sprint 1 planning

**8
(3/29)**   **Active Records (cont.)**

Reading (used by instructor):

- Rails book, Ch. 19, 23
- Coulon, X. Hibernate simplifies inheritance mapping
- Richardson, C., ORM in Dynamic Languages

Presentation: BIN HE, MITESH PATEL, ZHEN ZHANG, and KEVIN CHEN-CHUAN CHANG, Accessing the Deep Web, CACM

Presenter: Daniel Abramson

Presentation:

Nicolaou A, Best Practices on the move: Building Web apps for mobile Devices

Presenter: Yijie Sun

9 (4/5)   **Active Records (cont.)**

Reading (used by instructor):

- Rails book, Ch. 17-20

Coulon, X. Hibernate simplifies inheritance mapping

Presentation:

The World According to LINQ
Presenter: Hamdan Alshehri

Presentation:

Richardson, C., ORM in Dynamic Languages

Presenter: Buer Jiang

Assignment 3 out

Sprint 1 review and retrospective

Sprint 2 planning

**10
(4/12)**   **AngularJS Presentation**

Exam Release

11 (4/19)	**Testing**

Reading (used by instructor):

- Testing the Rails
- Testing, fun? Really?

Presentation:

Yu, J. et al., Understanding Mashup Development

Presenter: Yahya Alqahtani

Presentation:

L. Prechelt, Plat_forms is there one best Web development technology?

Presenter:Sangeeta Prayaga

Sprint 2 review and retrospective

Sprint 3 planning

12 (4/26)	**AJAX**

Reading (used by instructor):

- Rails book, Chap 9, 24

Presentation:

rie van Deursen. 2015. Testing web applications with state objects. Commun. ACM 58, 8

Presenter: Sirisha Duriseti

Markku Laine, Denis Shestakov, Evgenia Litvinova, and Petri Vuorimaa, Toward Unified Web Application Development

Presenter: Sri Boddapati

13 (5/3)	**Wrap-up**

Reading (used by instructor):

- Rails book, Ch. 25,26

Presentation:

Meenan, P, How Fast is Your Website?
                                        Cusumano, M., and Selby,
R. How Microsoft Builds Software

Presenter: newsha

Cusumano, M., and Selby, R. How Microsoft Builds Software

Presenter: Sachin Makasana

Sprint 3 review and retrospective

Sprint 4 planning

14
(5/10)

Security

Reading (used by instructor):

- Rails book, Ch. 11
- Pollice, G. A Look at Aspect Oriented Programming

Presentation:

Presenter: Dooil Kim

15
(5/17)

Project Presentations

Project final submission final exam day (only soft copy and file uploads please) – No Late Submissions

Other topics that may be included if time permits

The instructor reserves the right to modify this schedule. The class will be made aware when there is a change.

Comment