

Ruby Programming

Applications with Ruby on Rails

Winter Term, 2010

(10 Sessions) Wednesdays 6-9:00 PM, January 13 through March 17

Course Objectives

This course introduces participants to the web development platform of Ruby on Rails. Participants will work on a larger web application project within small teams, using business requirements supplied by the instructor. Topics include:

- Rails application architecture
- RESTful Routes
- Database connectivity and migrations
- Test-driven Development
- Application Deployment
- AJAX

Prerequisites:

Database design and relational database theory; basic SQL; some exposure to web application development and front end technologies; familiarity with Ruby.

Required Textbook:

Agile Web Development with Rails (3rd edition)

PDF version recommended from :

<http://pragprog.com/titles/rails3/agile-web-development-with-rails-third-edition>

Instructor

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Technology Requirements:

Laptop w/ Windows XP SP2/Vista or Mac OS X (10.4.x)

Assessment Criteria:

This class is pass / no pass. In order to pass, a student must :

- attend 80% of classes
- being 20 min or more late is considered an absence
- complete 100% of assigned work
- complete a final project

Disability Accommodation

The University of Washington is committed to providing access and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. For information or to request disability accommodation contact:

- Disability Services Office: 206.543.6450/V, 206.543.6452/TTY, 206.685.7264 (FAX), or e-mail at dso@u.washington.edu.

	Topic	Chapters
Week 1 Jan 13	Intro Getting a simple rails app working Exercises <ul style="list-style-type: none"> - Simple app working “instant gratification” 	1, 2, 3, 4
Week 2 Jan 20	Active Record models Exercises <ul style="list-style-type: none"> - Design schemas - Migrations - Active Record relationships - Active Record validations - Approved Project 	15, 17, 18, 19
Week 3 Jan 27	Agile practices <ul style="list-style-type: none"> - TDD - Pairing - Testing in Rails Exercises <ul style="list-style-type: none"> - Ping Pong Pairing demo - Testing model demo 	14
Week 4 Feb 3	Controllers REST Exercises <ul style="list-style-type: none"> - non RESTful routes - RESTful routes - Simple RESTful controller - Testing controller demo 	21, 22
Week 5 Feb 10	Views Exercises <ul style="list-style-type: none"> - Templates - Layouts - Helpers - CSS 	23
Week 6 Feb 17	Sessions Plugins Exercises <ul style="list-style-type: none"> - Authentication example - Pagination (with will_paginate) - Upload a photo - Resize a photo 	27
Week 7 Feb 24	AJAX <ul style="list-style-type: none"> - RJS - jQuery Exercise <ul style="list-style-type: none"> - AJAX - Autocompletion 	24
Week 8 Mar 3	Active Mailer Deployment <ul style="list-style-type: none"> - capistrano - heroku - strategies Exercises <ul style="list-style-type: none"> - Confirmation E-mail - Deploy to heroku 	28
Week 9 Mar 10	Caching Searching	
Week 10 Mar 17	Final Project Demos	