



Web Development

Ruby On Rails

Duration: 3.5 Month

Course Overview

Ruby On Rails 4.0 Training From I flame Allows You To Build Full Featured, High Quality, Object Oriented Web Apps. Ruby On Rails Is A Full Stack Open Source Web Application Framework Which Is Best Optimized For Sustainable Productivity. This Course Teaches The Complete Process Of Creating A Dynamic Database Driven Applications On The Rails Framework. You Also Get To Know The Best Practices As Well As Fundamental Concepts Of This New Version.

Course Objective

- **Understanding The MVC Architecture:** MVC Or Model View Controller Architecture Enables The Application Data To Be Clearly Distinguished From Its Presentation.
- **Database Access Library:** Data Handling In Ruby On Rails Database Is Greatly Simplified With This Access Library Called Active Record.
- **Other Libraries:** To Simplify Coding For General Programming Tasks, Ruby On Rails Has Various Other Libraries To Perform Sessions Management, Validations Etc.
- **AJAX Library:** Ruby On Rails Contains An Extensive AJAX Functions Library, Which Is Used To Generate Code In AJAX.
- **Components:** Storing Reusable Code And Modularizing Templates Is Quite Simple In The Rails Framework.
- **Customized URL:** Create Custom Urls That Are Search Engine Friendly Using The Rails Framework.
- **Error Handling:** Debug Applications Using Detailed Error Logs.
- **Programming Conventions:** This Framework Does Not Use XML Configuration Files. Instead, It Consists Of Programming Conventions Which Are Incorporated To Specify Certain Configuration Parameters.

Course Content:



1. Course Content
2. Introduction To Ruby
3. Environment
4. Syntax
5. Variables
6. Operators
7. Comments
8. Conditional Statements
 - 8.1. If
 - 8.2. If..Else
 - 8.3. If...Elsif..Else
 - 8.4. If Modifier
 - 8.5. Unless Statement
 - 8.6. Unless Modifier
 - 8.7. Case Statement
9. Loops
 - 9.1. While Statement
 - 9.2. While Modifier
 - 9.3. Until Statement
 - 9.4. Until Modifier
 - 9.5. For Statement
 - 9.6. Break Statement
 - 9.7. Next Statement
 - 9.8. Redo Statement
 - 9.9. Retry Statement
10. Methods
11. Blocks
 - 11.1. Yield
 - 11.2. Blocks And Methods
 - 11.3. Begin And End
12. Modules
 - 12.1. Require



- 12.2. Include
- 12.3. Mixins In Ruby

13. Strings

14. Arrays

- 14.1. Built-In Methods

15. Hashes

- 15.1. Built-In Methods

16. Date & Time

- 16.1. Current Date And Time
- 16.2. Components
- 16.3. Time.Utc, Time.Gm And Time.Local Functions
- 16.4. Timezones And Daylight Savings Time
- 16.5. Formatting Times And Dates
- 16.6. Time Formatting Directives
- 16.7. Time Arithmetic

17. Ranges

- 17.1. Sequences
- 17.2. Conditions
- 17.3. Intervals

18. Iterators

- 18.1. Each
- 18.2. Collect

19. File I/O

- 19.1. Puts
- 19.2. Gets
- 19.3. Putc
- 19.4. Print
- 19.5. Opening And Closing Files
- 19.6. Reading And Writing Files
- 19.7. Renaming And Deleting Files
- 19.8. File Modes And Ownership
- 19.9. File Inquiries
- 19.10. Directories In Ruby
- 19.11. Built-In Functions

20. Ruby Exceptions

- 20.1. Retry Statement



- 20.2. Raise
- 20.3. Ensure
- 20.4. Else
- 20.5. Catch And Throw
- 20.6. Class Exception

21. Ruby Advanced

22. Classes

- 22.1. Instance Variables
- 22.2. Class Variables
- 22.3. Global Variables
- 22.4. Constants

23. Object Oriented

- 23.1. Class Definition
- 23.2. Ruby Objects
- 23.3. Initialize Method
- 23.4. Instance Variables
- 23.5. Accessor & Setter Methods
- 23.6. Instance Methods
- 23.7. Class Methods & Variables
- 23.8. Type Casting Method (To_S, To_I, To_F, To_A, To_Hash, Etc..)
- 23.9. Access Control
- 23.10. Class Inheritance
- 23.11. Methods Overriding
- 23.12. Operator Overloading
- 23.13. Freezing Objects

24. Rails

25. Installation On Windows

26. Installation On Linux

27. Mysql Installation On Windows

28. Mysql Installation On Linux

29. File Structure

30. Controller And Views And Models

31. Routes

32. Migration



33. Migration Overview

34. Creating A Migration

- 34.1. Creating A Standalone Migration
- 34.2. Model Generators
- 34.3. Supported Type Modifiers

35. Writing A Migration

- 35.1. Creating A Table
- 35.2. Creating A Join Table
- 35.3. Changing Tables
- 35.4. Using The Change Method
- 35.5. Reverting Previous Migrations

36. Running Migrations

- 36.1. Rolling Back
- 36.2. Setup The Database
- 36.3. Resetting The Database
- 36.4. Running Specific Migrations
- 36.5. Running Migrations In Different Environments
- 36.6. Changing The Output Of Running Migrations

37. Changing Existing Migrations

38. Using Models In Your Migrations

39. Associations

40. Overview Of Associations

41. Belongs_To

42. Has_One

43. Has_Many

44. Has_And_Belongs_To_Many

45. Layouts

46. Partial

47. Helpers

48. Custom Helpers

49. Data And Time Helpers

50. Number Helpers



- 51. Text Helpers
- 52. Forms
- 53. Dates And Time Helpers
- 54. Escaping Input
- 55. Escaping Output
- 56. Form Errors
- 57. Form Field Labels
- 58. Form Helpers
- 59. Form Option Helpers
- 60. Data Validation
- 61. Validations Overview
 - 61.1. Why Use Validations?
 - 61.2. When Does Validation Happen?
- 62. Validation Helpers
 - 62.1. Acceptance
 - 62.2. Validates_Associated
 - 62.3. Confirmation
 - 62.4. Exclusion
 - 62.5. Format
 - 62.6. Inclusion
 - 62.7. Length
 - 62.8. Numericality
 - 62.9. Presence
 - 62.10. Absence
 - 62.11. Uniqueness
 - 62.12. Performing Custom Validations
 - 62.12.1. Custom Validators
 - 62.12.2. Custom Methods
 - 62.13. Displaying Validation Errors In Views
- 63. Crud
 - 63.1. Create_Action
 - 63.2. Read_Action
 - 63.3. Update_Action
 - 63.4. Delete_Action



63.5. Index_Action

64. Crud Using Scaffolding

64.1. Create_Action

64.2. Read_Action

64.3. Update_Action

64.4. Delete_Action

65. Rails Console

66. Advanced Concepts In Rails

66.1. Action Mailer Basics

66.2. Securing Rails Applications

66.3. Gems

66.3.1. Overview

66.3.2. Usage

66.4. Creating And Customizing Rails

66.4.1. Custom Views

66.4.2. Custom Actions

66.4.3. Custom Migrations

66.4.4. Custom Models

66.4.5. Custom Configurations Under Development And Production

66.4.6. Custom Routes

66.4.7. Custom Initializers

66.5. Action Mailers

66.5.1. Configuring Smtplib Setting For Development

66.5.2. Mailer Methods And Usage

66.5.3. Custom Html Templates For Mailing

66.5.4. Mailers As A Background Process

66.6. Twitter Bootstrap

66.6.1. Overview And Usage Of Twitter Bootstrap

66.6.2. Responsive Layouts

67. Application Level Authentications

67.1. Setup

67.2. Configuration

67.3. Filtering

67.4. Authentication

68. Authentications Using Social Networks(Third Party)

68.1. Facebook

68.2. Twitter

68.3. LinkedIn



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- 68.4. Google
- 68.5. Github



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