Course Duration: 30 Hours Mob.no 9891136923
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Ruby Training Course

Content

Introduction Session

- ✓ What is RUBY
- ✓ RUBY History, Introduction & RUBY Scope
- ✓ Type of Application Created by RUBY
- ✓ Comparison of RUBY with Other Web Technology
- ✓ Why RUBY is Most Popular Programming Language in IT World

Ruby Installation and Software Tools

- ✓ Ruby Installation
- ✓ What is best IDE,
- ✓ Interpreters vs Compilers
- ✓ How to Set Path in Ruby (Temp Path & Permanent Path)
- ✓ How to Execute Ruby Code under Command Prompt
- ✓ Ruby Architecture
- ✓ How to Write Comment in Ruby
- ✓ Create First Hello World of Program in Ruby & provide complete explanation

Operator in Ruby

- ✓ What is Operators
- √ Types of Operator
- ✓ RUBY Arithmetic Operators
- ✓ RUBY Comparison Operators
- ✓ RUBY Assignment Operators
- ✓ RUBY Bitwise Operators
- ✓ RUBY Logical Operators
- ✓ Ternary Operator

Variable, Constant, Literals & Data Types

- ✓ What is Variables, Constant and Literals
- ✓ Type of Variables
- ✓ Memory Management according to variable
- ✓ Assigning Values to Variables, Constant
- ✓ Data types
- ✓ Primitive Data type & Non Primitive Data type
- ✓ Implicit & Explicit Type Conversion
- ✓ Conversion Method and Type Casting
- ✓ Naming Convention in RUBY according to different cases

Loops and Conditional Statements

- √ if statements
- ✓ ..else statements
- ✓ nested if statements, Ladder if else, Multiple If
- ✓ Case...When
- ✓ while loop, do-while
- √ for loop, until loop
- √ nested loops
- ✓ Loop Control Statements
- ✓ break statement
- ✓ continue statement

Array Concept in RUBY

- ✓ What is Array, Advantage of Array & Disadvantage of Array
- ✓ Type of Array (Single, Multi & Jagged Array)
- ✓ Explain Char Array and String Array
- ✓ Searching and Sorting Elements in Array
- ✓ Create Stack and Queue in Array
- ✓ What is Array class in RUBY, Discuss Predefine methods of Array Class

Hash in RUBY

✓ What is Hash, Advantage of Hash

User define function in Ruby

- ✓ What is Function
- ✓ Type of Function
- ✓ Default Function and Parameterized Function
- ✓ What is default argument value
- ✓ Recursion in ruby

String Example in Ruby

- ✓ What is String
- ✓ How many ways to declare to String
- ✓ String as a Object
- ✓ String Interpolation

OOPs Concept in Depth

- ✓ Class and Object, Polymorphism, Encapsulation, Abstraction
- ✓ Static Block, Init Block Explanation
- ✓ Access Specifier, Access Modifier(Instance, Static,final,abstract)
- ✓ Constructor and their types
- ✓ Inheritance and their types
- ✓ Polymorphism and their types
- ✓ Object Array using class
- ✓ IS A Relationship and Has a Relationship

• Exception Handling in RUBY

- √ What is Exception
- ✓ Type of Exception
- ✓ What is raise keyword
- ✓ What is User define Exception

• File Handling Concept in RUBY

- ✓ What is File, Directory, Package
- ✓ Create, Write and Read Text file
- ✓ Create, Write and Read Binary file
- ✓ How to delete content from file
- ✓ How to create folder and put file under folder

Threading Concept in RUBY

- ✓ What is Thread
- √ Thread Life Cycle
- ✓ Thread implementation
- ✓ What is Thread Synchronization

Course Duration: 30 Hours

Rails Training Course

Content

Web Introduction

- ✓ What is Web application
- ✓ What is Static & Dynamic Website
- ✓ What is Client Server Architecture

- ✓ What is Http, Http Request and Http Response
- ✓ ROR Web Server & Application Server
- ✓ How to create Web project in VS Code

Front end explanation

- √ What is HTML
- ✓ What is CSS, Internal, External and Inline
- ✓ What is JS, JS Events, JS DOM
- ✓ What is Jquery, Jquery Events and Selector
- ✓ What is Bootstrap, How to create Responsive Design
- ✓ Create Responsive Web Template

What is Controller and Views

- ✓ Creating a New Rails Site for Flix
- ✓ How Controller methods relate to views
- ✓ Private methods
- ✓ The params hash

Views

- ✓ Generating and Creating Views
- ✓ Mapping Views, Controller ,Actions and Routes
- ✓ Dynamic Views
- ✓ Rails Route Command
- ✓ Creating a View
- ✓ Add Dynamic Data
- ✓ Rendering a Partial View

Rails Forms

- ✓ What is Rails forms
- ✓ Rails form Helper
- ✓ Connecting a Form from Model

Models

- √ Generating a Model
- ✓ How migration files work
- ✓ Migration the database
- ✓ Rolling back a Migration

Models Validation

- ✓ The purpose of Validations
- ✓ Adding basic Validation
- ✓ Preventing Submission of Empty Forms
- ✓ Customizing Validations
- √ Adding Error Message

Models Methods

- ✓ Built-in Model Methods
- ✓ Adding Methods to Model

Models Relationship

- √ Has_one and belongs_to_relationships
- √ has_and_belongs_to_many: Simple Many-to-Many Relationships
- √ has_many, through: Advanced Many-to-Many Relationships with Additional Metadata
- ✓ Polymorphic Relationships
- ✓ Delegates: Sharing Methods Between Related Objects
- ✓ Self-Joins: Relationships Between Instances of the Same Model

Authentication and Database Operation

- ✓ Create Login and Registration Form
- ✓ Create Login with Multiple Role
- ✓ Create Result GRID with CRUD Operation
- ✓ Create User dashboard and display individual user data
- ✓ Create Admin Dashboard and Manage CRUD Operation

Session and Cookie

- ✓ What is Session
- ✓ Create Session
- ✓ How to Authenticate using Session
- ✓ Destroy Session
- ✓ Manage Session to provide Internal Page Security
- ✓ Implement Session in Login Form
- ✓ What is Cookie
- ✓ Get Data From Cookie
- ✓ Manage Time Interval in Cookie
- ✓ Destroy Cookie

AJAX Operation

- ✓ How to manage AJAX Operation using XML
- √ Ajax using Jquery
- ✓ Create Autosuggestion and Search Record using AJAX
- ✓ CRUD Operation using AJAX

File Uploading

- ✓ How to Upload File
- ✓ How to upload multiple file
- ✓ Save image file into database
- ✓ Upload and download profile picture into database

• Scaffolding

✓ The Scaffold command

• MVC Architecture

- ✓ How to Manage MVC Architecture
- ✓ Access BEAN Under JSP & Servlet