

COURSE N

Report on “Industrial Workshop”

on

Web development with “Ruby On Rails”

Course Title: Field Work

Course Code: CSE-4708

Submitted By	Submitted To
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Remarks

-An Industrial Workshop Summary Report Submitted in partial fulfillment of the requirements for the degree of Bachelor of Computer Science and Engineer.

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MOTIVATION

- Ruby on Rails is one of the most pleasant technologies to use for web application development.
 - It is very much optimized for developer happiness
 - It makes doing lots of stuff with a little code
- Flexibility on a budget because Ruby on Rails is open source
 - Easy to maintenance and support system

OBJECTIVE

Profile of the resource person

- To learn basics about the Ruby language
- To be introduced with Rails framework
- To learn web development with Ruby on Rails
- To know about the future scope of Ruby on Rails

TOPICS COVERED

- Install and configure Ruby, Rails and associated packages
- Ruby basics
 - Understand the Rails Request Cycle
 - Model-View-Controller architecture for server-side applications
 - Programming the major components of Rails including Active Record, Action Controller, and Action View
 - Hands-on with forms, validations, authentication
 - Using CSS and Javascript

TOOLS AND PREPARATION

- Laptop with UBUNTU 16.04 installed
- Virtualbox 5.1.30 or later version installed
- Basic knowledge about object-oriented programming (C++/Java)
- Laptop Configuration:
Dual/Quad core processor with clock speed of 2.6+ GHz and 9GB RAM preferred
- Internet Connectivity

Description

Description of web development Ruby On Rails

programming. We get a chance to test our understanding in a project which we developed in the Workshop.

Ruby language

Ruby is a general-purpose language that is still popular and in high demand in the marketplace, as it is more commonly used in Rails applications.

Concise and readable, it is easy to pick up a bit also plenty powerful. Companies like Twitter, SoundCloud, Goodreads, and Kickstarter got their product off the ground with Ruby.

Ruby on Rails

We build web applications with Rails, one of the most popular and easy to use web application development frameworks. By the end of the workshop, we get familiarity around Rails core concepts, like the MVC design pattern, and how to communicate with databases to persist data. Rails is a Ruby-based framework and build off knowledge from the Ruby workshop.

As one of the most powerful ways to quickly develop web applications, Ruby on rails has high relevance and demand in today's marketplace. Companies like Airbnb, Fab.com,Hulu,and even Codeacademy have built their products using Rails framework.In the workshop, while building with Rails, we've also learned so far from implementing static web pages with HTML and CSS to using programming concepts like object-oriented programming.

Environment Setup:

We installed RubyMine IDE from JetBrains (www.jetbrains.com/ruby/).

Project Career:

Ruby on Rails is a web framework that makes it easy to build powerful web apps in a short amount of time. Ruby on Rails is written in the Ruby Programming language.

In the terminal, we typed

```
$rails new MySite
```

Then run

```
$bundle install
```

Finally types

```
$rails server
```

Then the Rails software was viewed in the browser by visiting **http://localhost:******

CONCLUSION

We learn the basics of Ruby language successfully. Then we are introduced with the web Framework *Ruby on Rails*. A small web project was completed during the workshop using this framework.so, we can say it was a fruitful workshop.

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FUTURE SCOPE

Consider these companies: Kickstarter, Shopify, Hulu, GitHub, Airbnb, 500px. The websites mentioned are built upon Ruby on Rails. So many other startups choose to build their products using Ruby On Rails. This is because of Ruby on Rails allows for faster development than the other conventional languages and Companies with limited budgets can use its Framework for creating outstanding web applications as the framework is open source. So it is very clear that the future of Ruby On Rails is excellent.

In this workshop, we gain familiarity in Ruby around basic programming concepts - including variables, loops, control flow, and most important object-oriented
