

Oracle Mix

A Case Study

ORACLE® Mix ^{Beta}

ORACLE Connect



Ola Bini
JRuby Core Developer
ThoughtWorks Studios

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Vanity slide

Vanity slide

Ola Bini

Vanity slide

Ola Bini

From Stockholm, Sweden

Vanity slide

Ola Bini

From Stockholm, Sweden

Programming language nerd

Vanity slide

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ThoughtWorks Studios

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JRuby Core Developer

30 000 feet

30 000 feet

Oracle Connect

30 000 feet

Oracle Connect

Ruby on Rails

30 000 feet

Oracle Connect

Ruby on Rails

Oracle Mix

30 000 feet

Oracle Connect

Ruby on Rails

Oracle Mix

JRuby on Rails

30 000 feet

Oracle Connect

Ruby on Rails

Oracle Mix

JRuby on Rails

Social networking

30 000 feet

Oracle Connect

Ruby on Rails

Oracle Mix

JRuby on Rails

Social networking

Launched for Oracle OpenWorld

30 000 feet

Oracle Connect

Ruby on Rails

Oracle Mix

JRuby on Rails

Social networking

Launched for Oracle OpenWorld

Becoming more of a platform for Oracle

Ruby?

Ruby?

Dynamically, strongly typed, pure object oriented language

Ruby?

Dynamically, strongly typed, pure object oriented language

Interpreted

Ruby?

Dynamically, strongly typed, pure object oriented language

Interpreted

Open Source

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Dynamically, strongly typed, pure object oriented language

Interpreted

Open Source

Default implementation in C (called MRI)

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Current versions 1.8.7 and 1.9.0

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Created in 1993

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Interpreted

Open Source

Default implementation in C (called MRI)

Current versions 1.8.7 and 1.9.0

Created in 1993

The principle of least surprise

Nice Ruby features

Nice Ruby features

Pure OO

Nice Ruby features

Pure OO

Blocks

Nice Ruby features

Pure OO

Blocks

Modules as mixins

Nice Ruby features

Pure OO

Blocks

Modules as mixins

Great libraries and frameworks

Nice Ruby features

Pure OO

Blocks

Modules as mixins

Great libraries and frameworks

Pleasant language

Rails?

Rails?

Full stack MVC web dev framework

Rails?

Full stack MVC web dev framework

Open Source (MIT)

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Full stack MVC web dev framework

Open Source (MIT)

Many contributors

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Many contributors

Written in Ruby, utilizing it to max

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Many contributors

Written in Ruby, utilizing it to max

Single threaded, shared nothing

Rails?

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Many contributors

Written in Ruby, utilizing it to max

Single threaded, shared nothing

Current version 2.1

Rails tenets

Rails tenets

Convention over configuration

Rails tenets

Convention over configuration

Don't Repeat Yourself

Rails tenets

Convention over configuration

Don't Repeat Yourself

Agile development

Why Rails?

Why Rails?

Greatly simplified web development

Why Rails?

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Lots of innovation in the community

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Greatly simplified web development

Lots of innovation in the community

Small applications are trivial to create

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Small applications are trivial to create

JRuby?

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Java implementation of the Ruby language

JRuby?

Java implementation of the Ruby language

Java 1.5+

JRuby?

Java implementation of the Ruby language

Java 1.5+

Open Source

JRuby?

Java implementation of the Ruby language

Java 1.5+

Open Source

“It’s just Ruby”

JRuby?

Java implementation of the Ruby language

Java 1.5+

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Current release 1.1.4

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Commercial backing

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Sun Microsystems

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ThoughtWorks

Why JRuby?

Why JRuby?

Threading

Why JRuby?

Threading

Unicode

Why JRuby?

Threading

Unicode

Performance

Why JRuby?

Threading

Unicode

Performance

Memory

Why JRuby?

Threading

Unicode

Performance

Memory

C Extensions

Why JRuby?

Threading

Unicode

Performance

Memory

C Extensions

Libraries

Why JRuby?

Threading

Unicode

Performance

Memory

C Extensions

Libraries

Politics

Why JRuby?

Threading

Unicode

Performance

Memory

C Extensions

Libraries

Politics

Legacy systems

Why JRuby on Rails

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Deployment to Java app servers

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Java environments everywhere

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Java environments everywhere

Broader, scalable database support

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Integration with Java libraries and legacy systems

Networking in Oracle

Networking in Oracle

Loads of internal systems

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Many employees (84 000)

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Information about people in many systems

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Information about people in many systems

And there is no unified connection mechanism

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Mix Features

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Profiles

Mix Features

Profiles

Networks

Mix Features

Profiles

Networks

Ideas

Mix Features

Profiles

Networks

Ideas

Questions

Mix Features

Profiles

Networks

Ideas

Questions

Groups

Mix Features

Profiles

Networks

Ideas

Questions

Groups

Including blogging, private versions of the other things and chat

Mix Features

Profiles

Networks

Ideas

Questions

Groups

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Feeds

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Profiles

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Ideas

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Product scoping

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Direct messages

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Demo

Oracle Mix in action



Oracle Connect

Oracle Connect

Summer 2007

Oracle Connect

Summer 2007

Internal Oracle app

Oracle Connect

Summer 2007

Internal Oracle app

Started as directory

Oracle Connect

Summer 2007

Internal Oracle app

Started as directory

Networking

Oracle Connect

Summer 2007

Internal Oracle app

Started as directory

Networking

Got 2000 users in 10hrs

Oracle Connect

Summer 2007

Internal Oracle app

Started as directory

Networking

Got 2000 users in 10hrs

10000 users in 3 days

Oracle Connect

Summer 2007

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Simple Ruby on Rails application

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Summer 2007

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Simple Ruby on Rails application

Later added IdeaFactory

Oracle Connect

Summer 2007

Internal Oracle app

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Networking

Got 2000 users in 10hrs

10000 users in 3 days

Simple Ruby on Rails application

Later added IdeaFactory

June 20, 2008, Connect V2 launched on the Mix platform

Oracle Mix

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Launched 11 Nov, 2007

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Built in 6 weeks

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By Oracle and ThoughtWorks

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Deployed on 4x2 cpu single core, 12 gb mem, small HD

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3 app servers, 1 db server, BigIP load balancer

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Deployed on 4x2 cpu single core, 12 gb mem, small HD

3 app servers, 1 db server, BigIP load balancer

Future plans

Future plans

Integration with OpenSocial

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Possibility of using it as a platform, not only for Mix and Connect

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Clean up search

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Clean up search

Continual development of smaller features

Technical platform

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JRuby on Rails (Rails 1.2, JRuby trunk, around 1.1RC1)

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Now Rails 2.1, JRuby 1.1.3

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Oracle Application Server (OC4J)

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Oracle Application Server (OC4J)

Oracle RDBMS 10g

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Oracle Internet Directory (LDAP)

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Oracle SSO

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Oracle RDBMS 10g

Oracle Internet Directory (LDAP)

Oracle SSO

Oracle HTTPD

Oracle Linux

Benefits of technical platform

Benefits of technical platform

Quick turnaround

Benefits of technical platform

Quick turnaround

Agile development

Benefits of technical platform

Quick turnaround

Agile development

Start to finish took 6 weeks

Benefits of technical platform

Quick turnaround

Agile development

Start to finish took 6 weeks

Integration with technical stack very easy

Benefits of technical platform

Quick turnaround

Agile development

Start to finish took 6 weeks

Integration with technical stack very easy

From Java side

Benefits of technical platform

Quick turnaround

Agile development

Start to finish took 6 weeks

Integration with technical stack very easy

- From Java side

- From Ruby side

Benefits of technical platform

Quick turnaround

Agile development

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Integration with technical stack very easy

From Java side

From Ruby side

Challenges of technical platform

Challenges of technical platform

JRuby startup

Challenges of technical platform

JRuby startup

MRI used for development

Challenges of technical platform

JRuby startup

MRI used for development

Lack of Oracle RDBMS on Mac

Challenges of technical platform

JRuby startup

MRI used for development

Lack of Oracle RDBMS on Mac

Used Parallels

Challenges of technical platform

JRuby startup

MRI used for development

Lack of Oracle RDBMS on Mac

Used Parallels

Oracle SSO support

Challenges of technical platform

JRuby startup

- MRI used for development

Lack of Oracle RDBMS on Mac

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- Tweaked `acts_as_authenticated` to get it working

Challenges of technical platform

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Initially performance problems

Challenges of technical platform

JRuby startup

- MRI used for development

Lack of Oracle RDBMS on Mac

- Used Parallels

Oracle SSO support

- Tweaked `acts_as_authenticated` to get it working

Initially performance problems

- Found some bugs in JRuby, including memory leaks

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JRuby startup

- MRI used for development

Lack of Oracle RDBMS on Mac

- Used Parallels

Oracle SSO support

- Tweaked `acts_as_authenticated` to get it working

Initially performance problems

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Deviation in Servlet implementation

Statistics

Statistics

Initial: Code LOC: 2887, Test LOC: 3691

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After 3 weeks

Statistics

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3000 registered people, 40% employees

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4400 registered, over 150 ideas, 200 groups

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After 4 months (March 08)

Statistics

Initial: Code LOC: 2887, Test LOC: 3691

After 3 weeks

3000 registered people, 40% employees

After 6 weeks

4400 registered, over 150 ideas, 200 groups

After 4 months (March 08)

7000 people, 35% employees, 286 groups, 600 ideas, 168 questions

Statistics

Initial: Code LOC: 2887, Test LOC: 3691

After 3 weeks

3000 registered people, 40% employees

After 6 weeks

4400 registered, over 150 ideas, 200 groups

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7000 people, 35% employees, 286 groups, 600 ideas, 168 questions

After 7 months (June 08)

Statistics

Initial: Code LOC: 2887, Test LOC: 3691

After 3 weeks

3000 registered people, 40% employees

After 6 weeks

4400 registered, over 150 ideas, 200 groups

After 4 months (March 08)

7000 people, 35% employees, 286 groups, 600 ideas, 168 questions

After 7 months (June 08)

17000 people, 5500 employees, 460 groups, 1081 ideas

Statistics

Initial: Code LOC: 2887, Test LOC: 3691

After 3 weeks

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After 6 weeks

4400 registered, over 150 ideas, 200 groups

After 4 months (March 08)

7000 people, 35% employees, 286 groups, 600 ideas, 168 questions

After 7 months (June 08)

17000 people, 5500 employees, 460 groups, 1081 ideas

After 10 months (September 08):

Statistics

Initial: Code LOC: 2887, Test LOC: 3691

After 3 weeks

3000 registered people, 40% employees

After 6 weeks

4400 registered, over 150 ideas, 200 groups

After 4 months (March 08)

7000 people, 35% employees, 286 groups, 600 ideas, 168 questions

After 7 months (June 08)

17000 people, 5500 employees, 460 groups, 1081 ideas

After 10 months (September 08):

31000 people, 10000 employees, about 600 groups

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OpenSocial

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API for social networking applications

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Implementing the API's make it possible to integrate with other implementing sites

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Connect V2 add support for OpenSocial, and experimental applications have been added

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Mix will add public OpenSocial support at some point

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Oracle Listens

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Publicity event

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Oracle.com replaced for limited time

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Publicity event

Oracle.com replaced for limited time

Submit ideas and suggestions from front page

Oracle Listens

Publicity event

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Submit ideas and suggestions from front page

Oracle executives part of it

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Responding quickly to ideas and feedback

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Q

and

A

