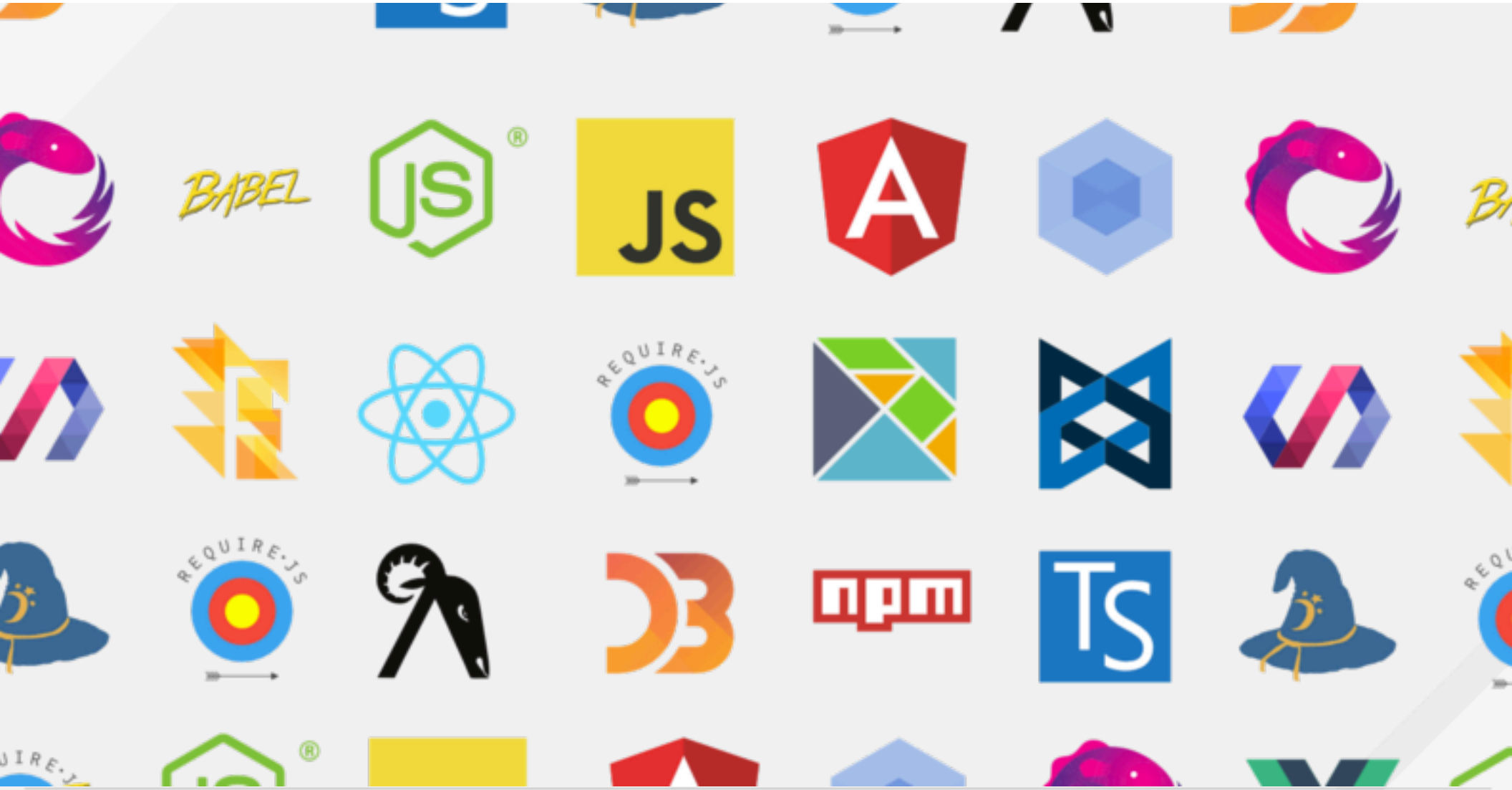
5 Pillars of a Successful Java Web Application

Eder Ignatowicz
Sr. Software Engineer @ Red Hat

Alex Porcelli
Principal Software Engineer @ Red Hat

Which backend architecture?

And what about front-end?


BABEL
JS
JS
REQUIRE·JS
REQUIRE·JS
npm
TS

Javascript Development is complex

redhat

Web ~~Javascript~~ development is complex

redhat

Web development will stay complex

redhat

Shadow DOM v0 - WD

Global 69.05%

unprefixed: 63.57%

Method of establishing and maintaining functional boundaries between DOM trees and how these trees interact with each other within a document, thus enabling better functional encapsulation within the DOM.

Current aligned | Usage relative | Date relative | Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			49						
			55			9.3		4.4	
	14	1 51	56	10	43	10.2		4.4.4	
11	15	1 52	57	10.1	44	10.3	all	56	57
		1 53	58	TP	45				
		1 54	59		46				
		1 55	60						

KIE Group

Open source projects for business systems automation and management.

Drools 5 introduces the **Business Logic integration Platform** which provides a unified and integrated platform for **Rules, Workflow** and **Event Processing**. It's been designed from the ground up so that each aspect is a first class citizen, with no compromises.

Drools team

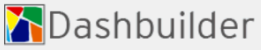
jBPM is a flexible Business Process Management (BPM) Suite. A business process allows you to model your business goals by describing the steps that need to be executed to achieve those goals, and the order of those goals are depicted using a flow chart...

jBPM team

OptaPlanner optimizes business resource usage. Every organization faces planning problems: provide products or services with a limited set of constrained resources. OptaPlanner optimizes such planning to do more business with less resources...

Optaplanner team

UberFire is a web based workbench framework inspired by Eclipse Rich Client Platform. This is a very strategic project for Drools & jBPM team, once this is the base technology for our next generation of web tooling.



Dashbuilder is a full featured web application for the visual composition of custom business dashboards. Data comes from heterogeneous sources of information such as JDBC databases or regular text files and can be displayed using different charting libraries.

Which web stack?

Which web architecture best fits for this problem?

5 pillars:

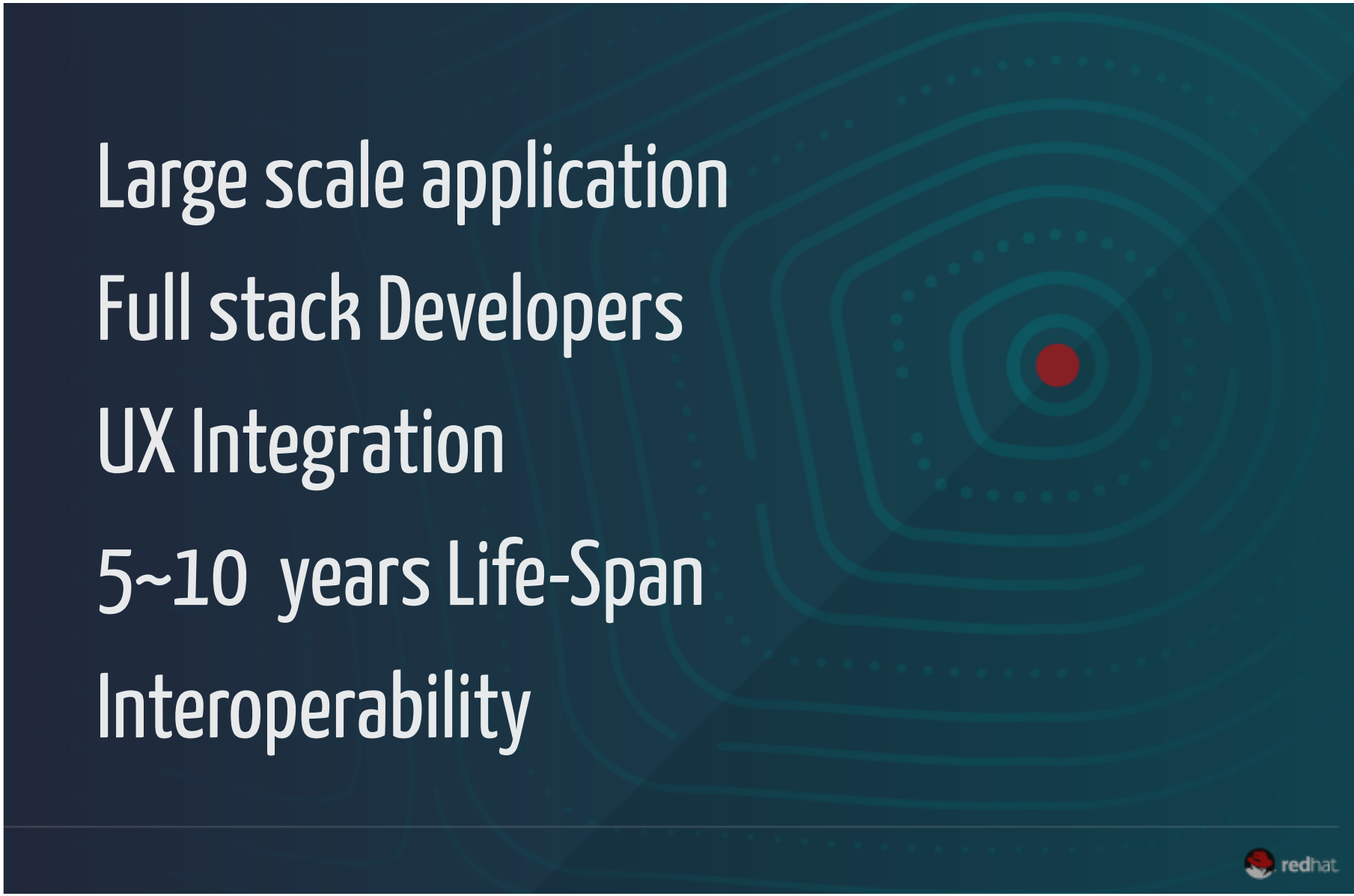
Large scale application

Full stack Developers

UX Integration

5~10 years Life-Span

Interoperability



5 pillars:

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Interoperability

Large Scale Application

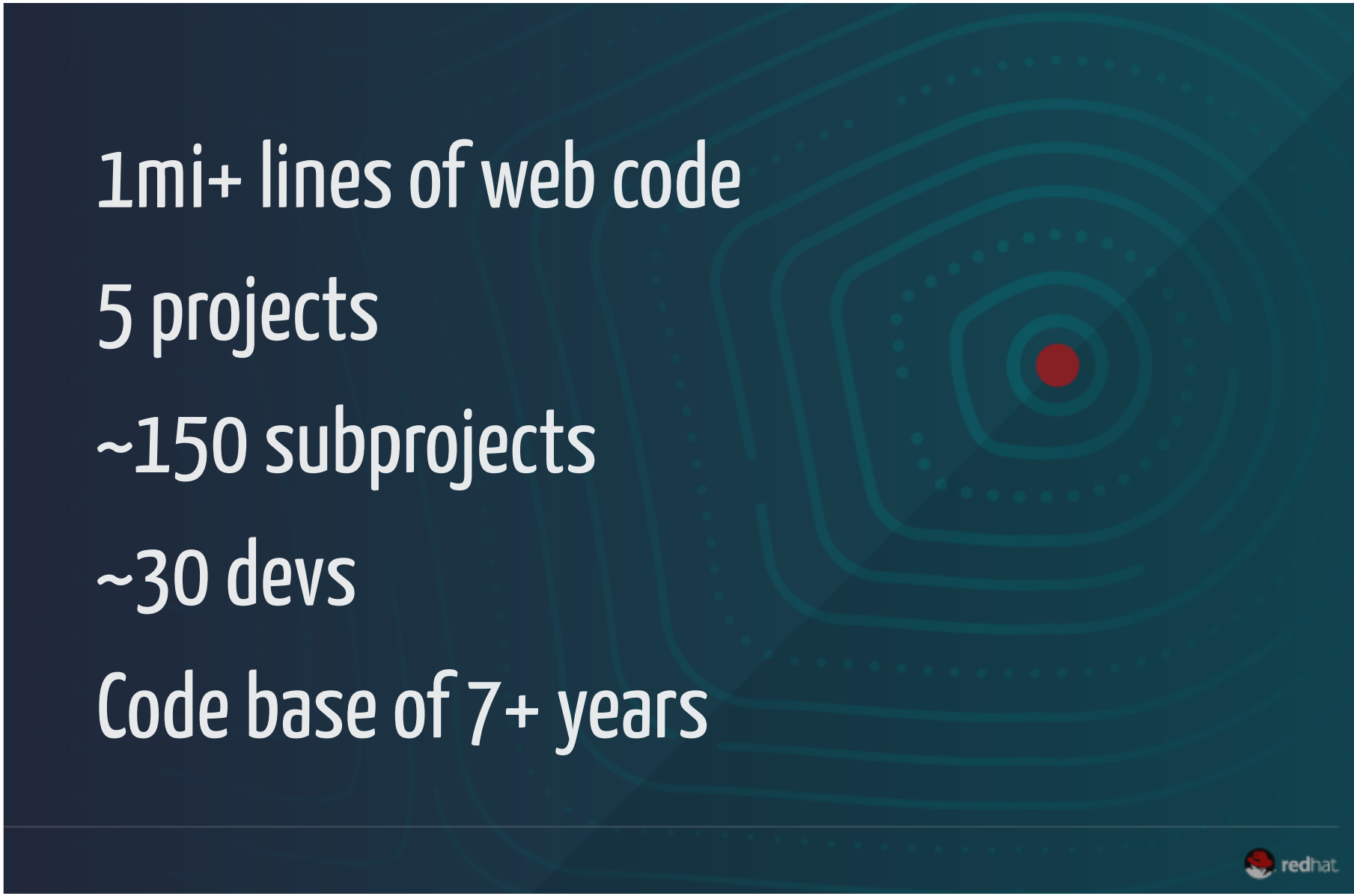
1mi+ lines of web code

5 projects

~150 subprojects

~30 devs

Code base of 7+ years



Large Scale Application

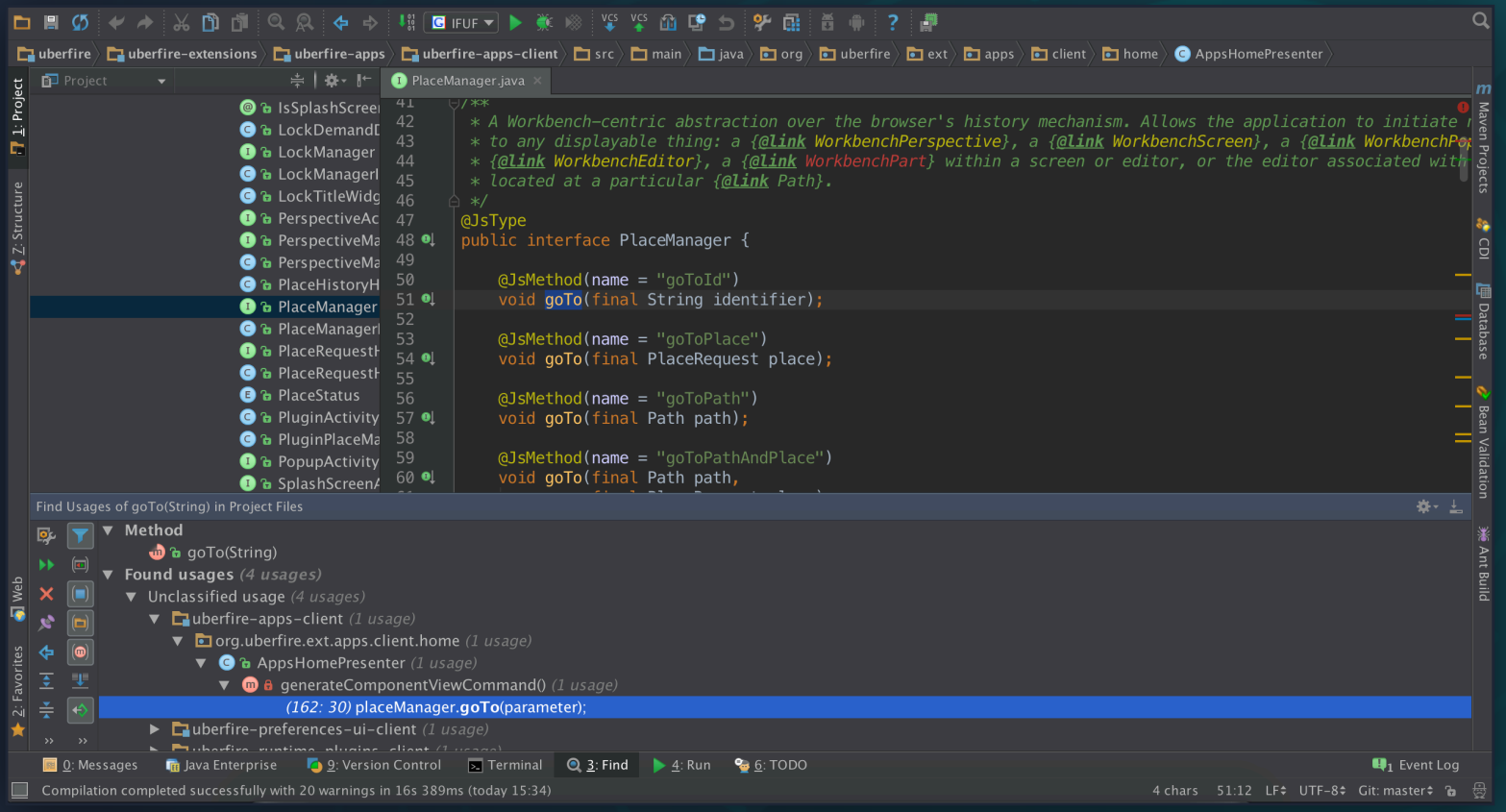
Static Typing

redhat

Large Scale Application

Refactoring

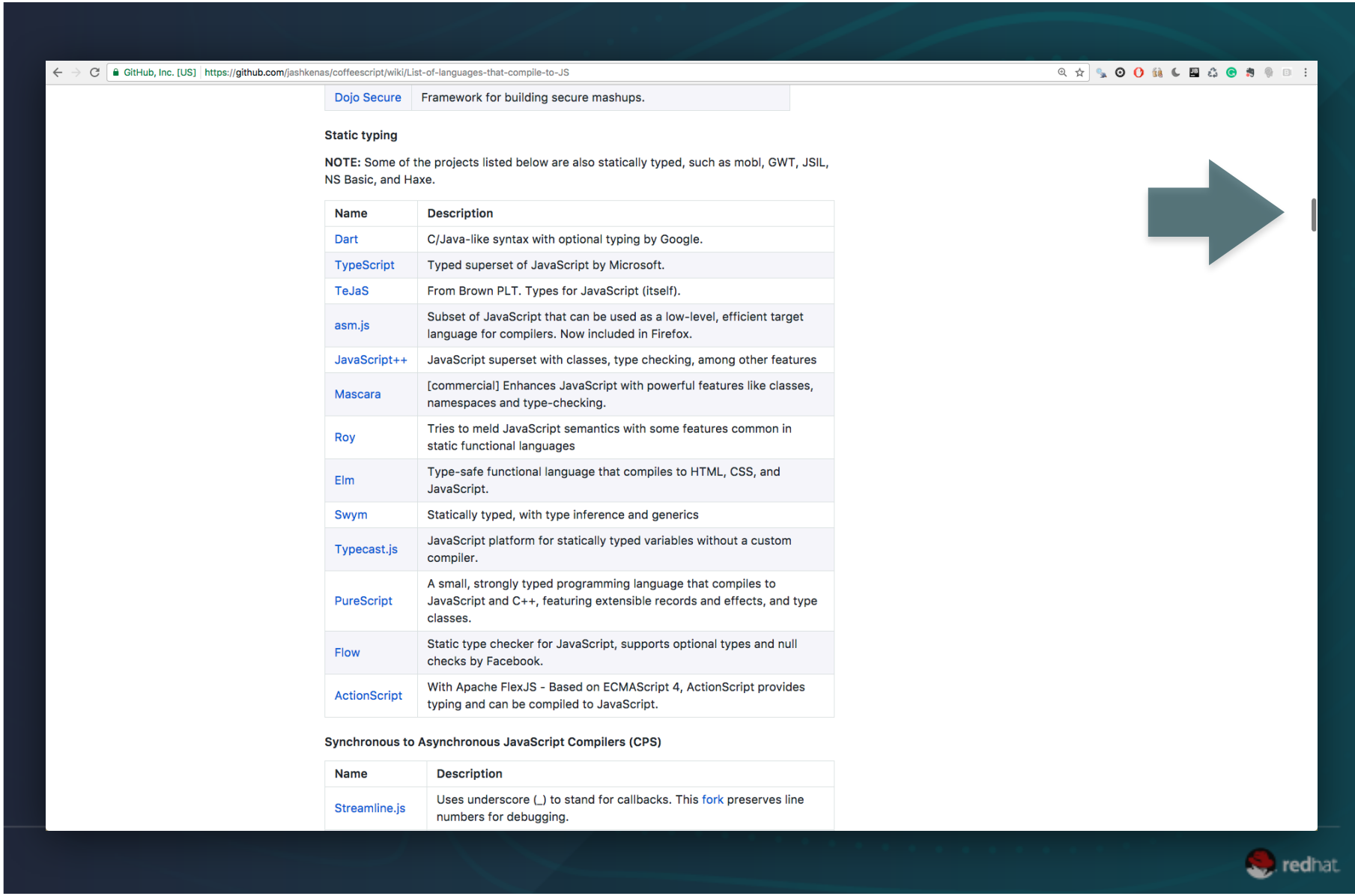
Large Scale Application



Large Scale Application

JavaScript Transpilers

Large Scale Application



Dojo Secure	Framework for building secure mashups.

Static typing

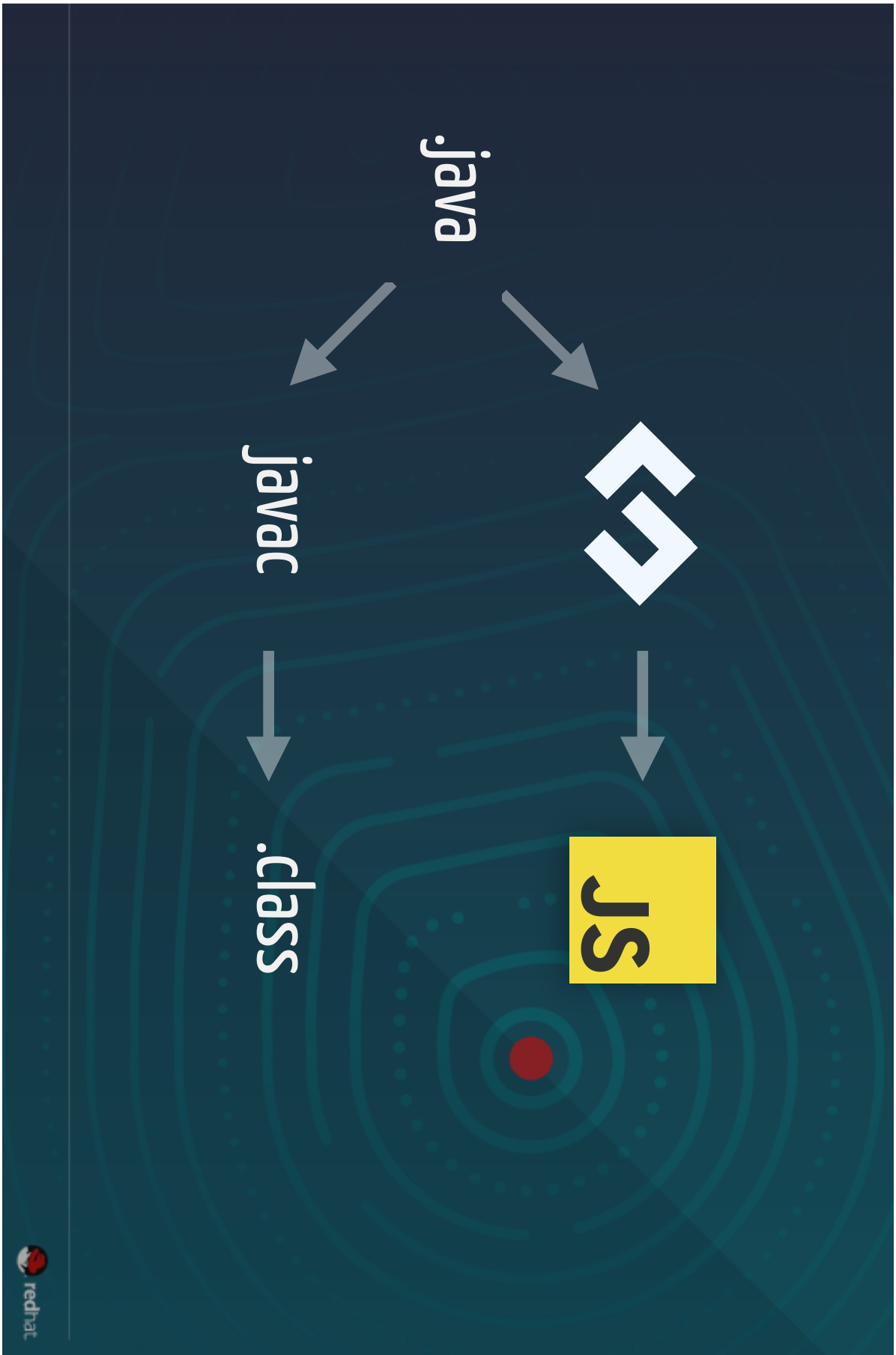
NOTE: Some of the projects listed below are also statically typed, such as mobl, GWT, JSIL, NS Basic, and Haxe.

Name	Description
Dart	C/Java-like syntax with optional typing by Google.
TypeScript	Typed superset of JavaScript by Microsoft.
TeJaS	From Brown PLT. Types for JavaScript (itself).
asm.js	Subset of JavaScript that can be used as a low-level, efficient target language for compilers. Now included in Firefox.
JavaScript++	JavaScript superset with classes, type checking, among other features
Mascara	[commercial] Enhances JavaScript with powerful features like classes, namespaces and type-checking.
Roy	Tries to meld JavaScript semantics with some features common in static functional languages
Elm	Type-safe functional language that compiles to HTML, CSS, and JavaScript.
Swym	Statically typed, with type inference and generics
Typecast.js	JavaScript platform for statically typed variables without a custom compiler.
PureScript	A small, strongly typed programming language that compiles to JavaScript and C++, featuring extensible records and effects, and type classes.
Flow	Static type checker for JavaScript, supports optional types and null checks by Facebook.
ActionScript	With Apache FlexJS - Based on ECMAScript 4, ActionScript provides typing and can be compiled to JavaScript.

Synchronous to Asynchronous JavaScript Compilers (CPS)

Name	Description
Streamline.js	Uses underscore (_) to stand for callbacks. This fork preserves line numbers for debugging.

Large Scale Application



GWT

GWT

Google Web Toolkit especialmente para o QC

Presented by HOT Errai HOT Uberfire HOT App Former

http:// redhat.com Submit

Some pages may work very slowly or not all. Many webapps are just too advanced for GWT.

Created by Eder Ignatowicz

Have a problem? Contact us


Activate Your Web Pages
JavaScript
The Definitive Guide
David Flanagan
O'REILLY
Unearthing the Excellence in JavaScript
JavaScript:
The Good Parts
O'REILLY
YAHOO! PRESS
Douglas Crockford

The Good Parts

GWT • Good Parts

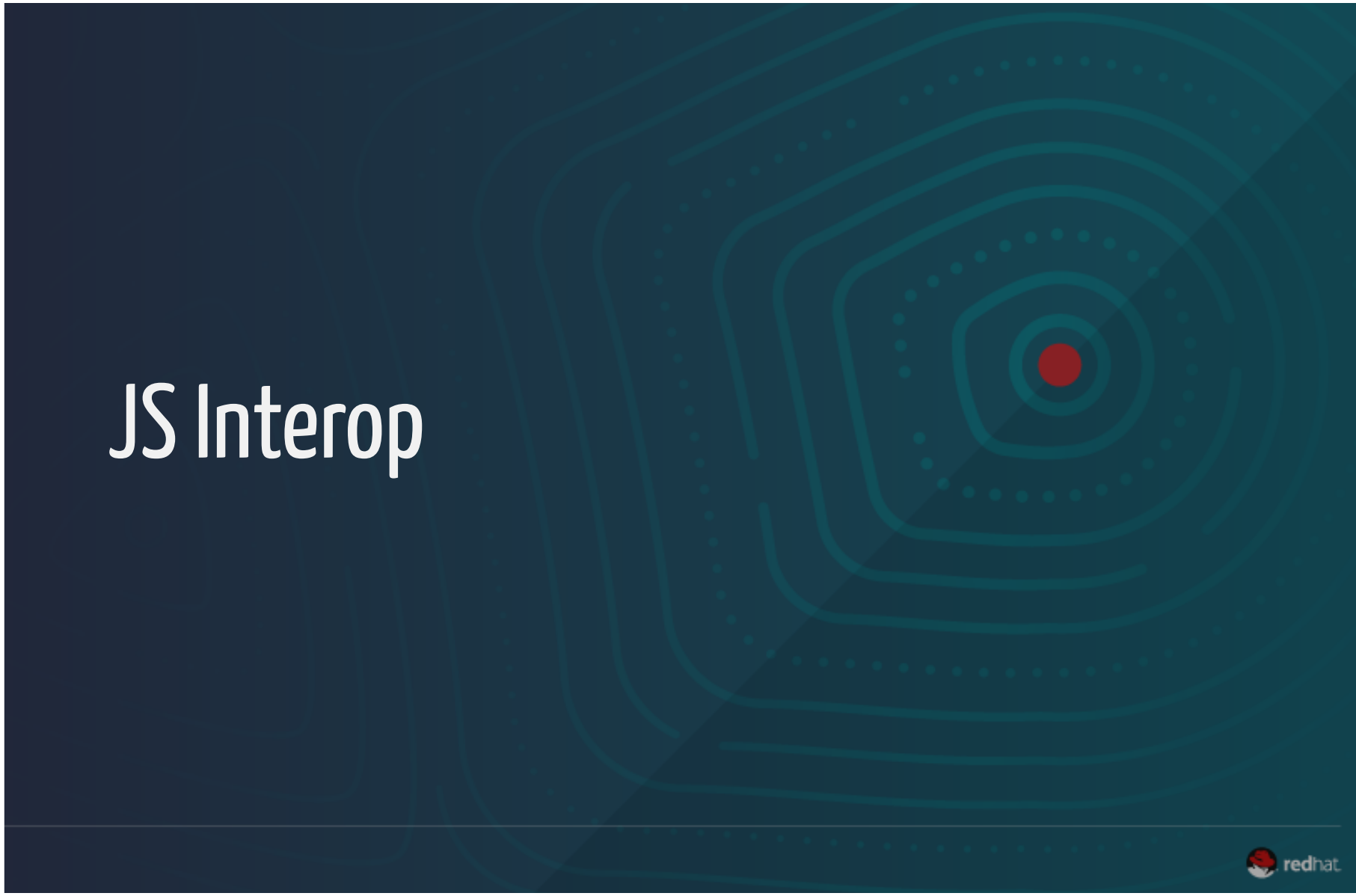
Java to JavaScript

GWT • Good Parts

java.* emulation

GWT • Good Parts

JS Interop



JS Interop • Consume

Java

```
@JsType(isNative = true)
public abstract class JQuery {

  @JsMethod(namespace=GLOBAL)
  public native static JQuery $(String selector);

  public native JQuery css(String prop, String val);

  public native JQuery attr(String name, String val);
}
```

Java

```
import static jquery.JQuery.$;
// ...
$("ul > li").css("color", "red").attr("data-level", "first");
```

JS Interop • Expose

Java

```
package foo;

@JsType
public class Dora {
  public boolean late = true;
  public Dora() {}
  public String auAu() { return "Hello QCon!";}
}
```

JavaScript

```
var dora = new foo.Dora();
if (dora.late) {
  alert(dora.auAu());
}
```

Large Scale Application

Refactoring

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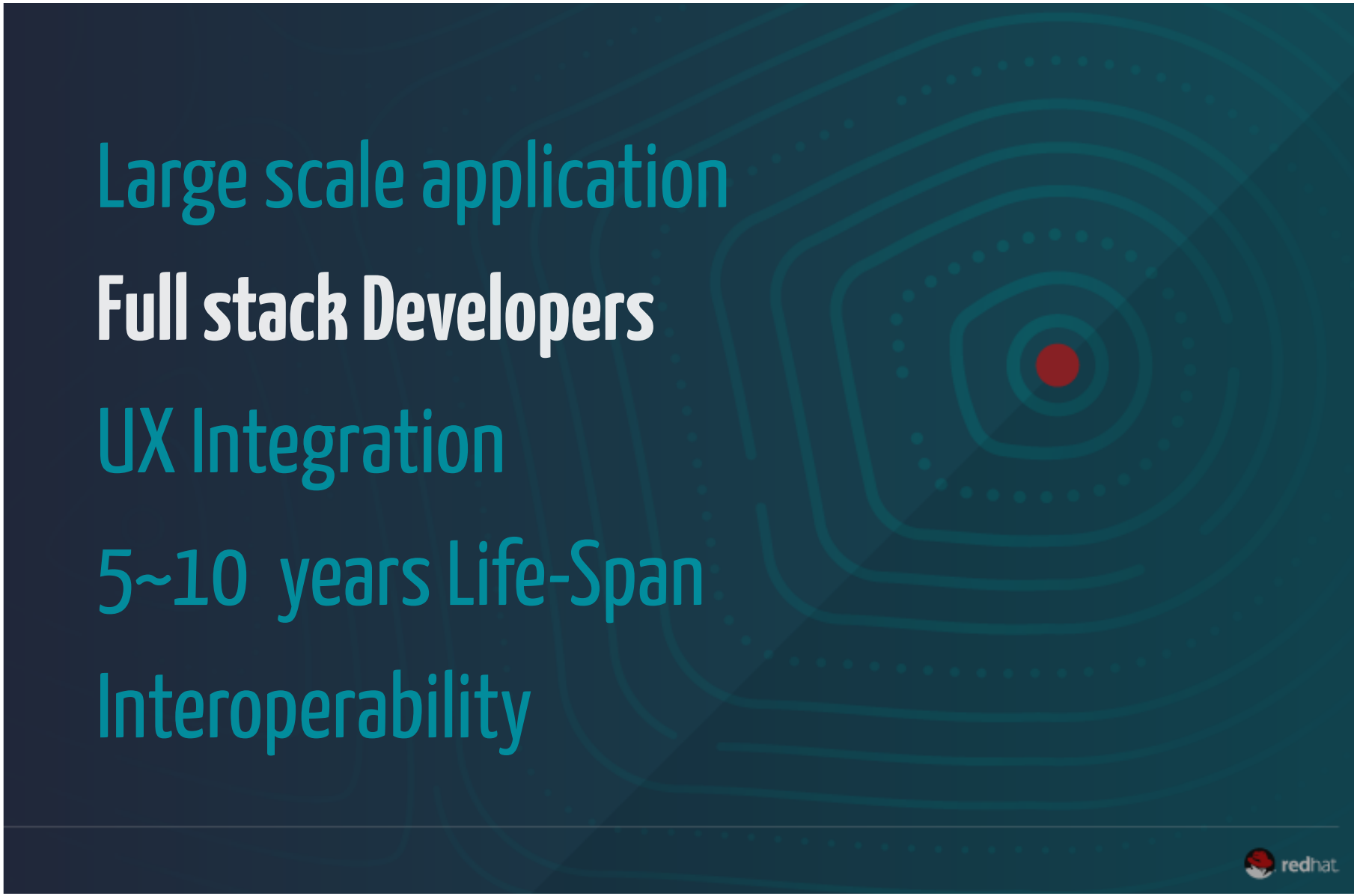
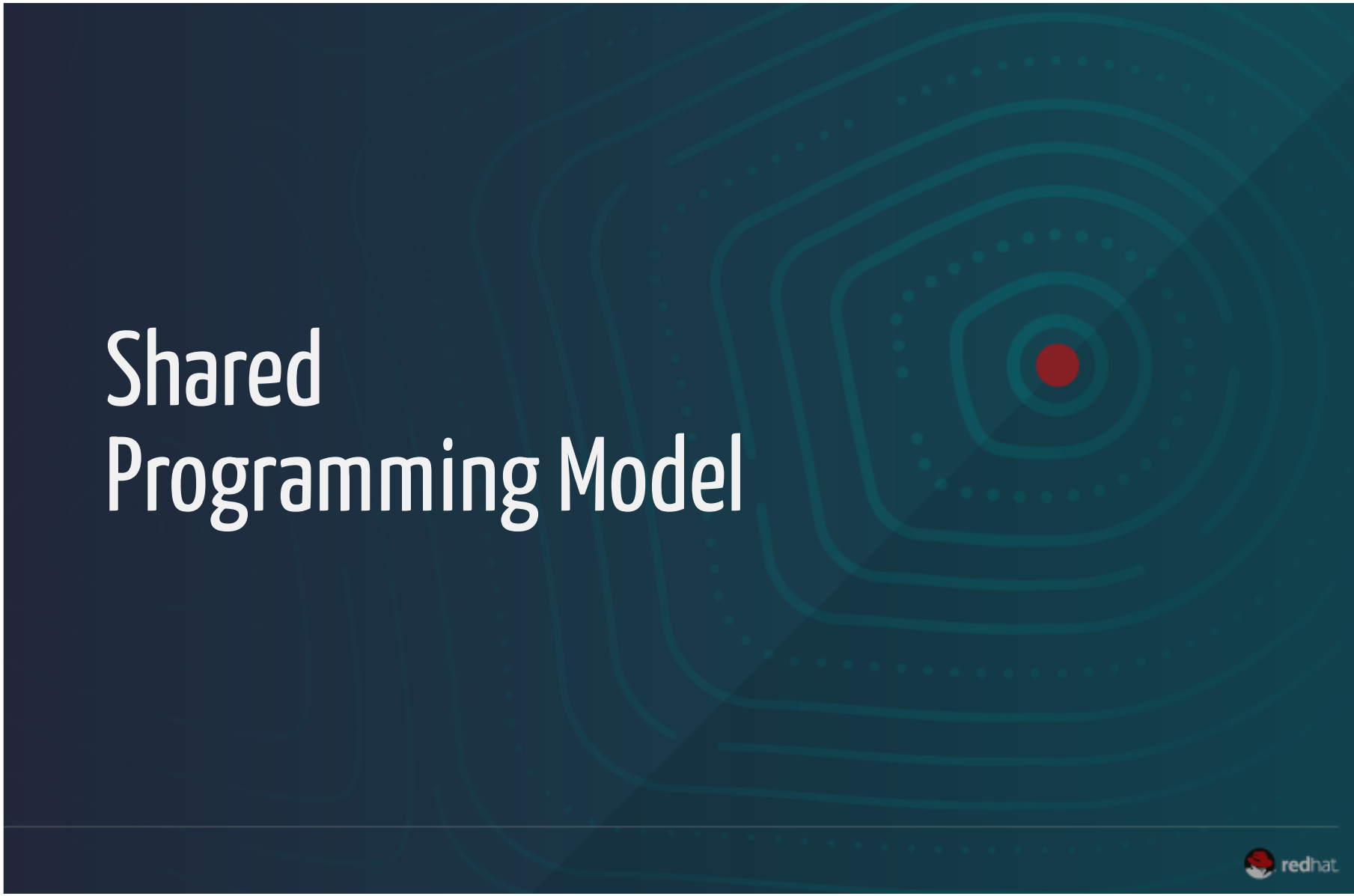
Interoperability



Devs Full Stack

Shared Programming Model



Devs Full Stack

“Java EE” in browser

redhat

Devs Full Stack

CDI-Lite

redhat

Devs Full Stack

ERRAI

CDI @ Browser

CDI no Browser

```
@ApplicationScoped
public class ProjectsView {

    @Inject
    Document document;

    @Inject
    @DataField( "projects-view" )
    Div view;

    @Inject
    @DataField( "new-project" )
    Button newProject;

    @Inject
    @DataField( "projects-list" )
    UnorderedList projectsList;

    @Inject
    Instance<ProjectItem> projects;
```

CDI no Browser

```
if (!filter.doFilter(event)) {

...

    if (event.kind().equals(StandardWatchEventKind.ENTRY_ADD)) {
        resourceAddedEvent.fire(buildEvent(ResourceAddedEvent.class,
                                           event).getK2());
    }

...

}
```

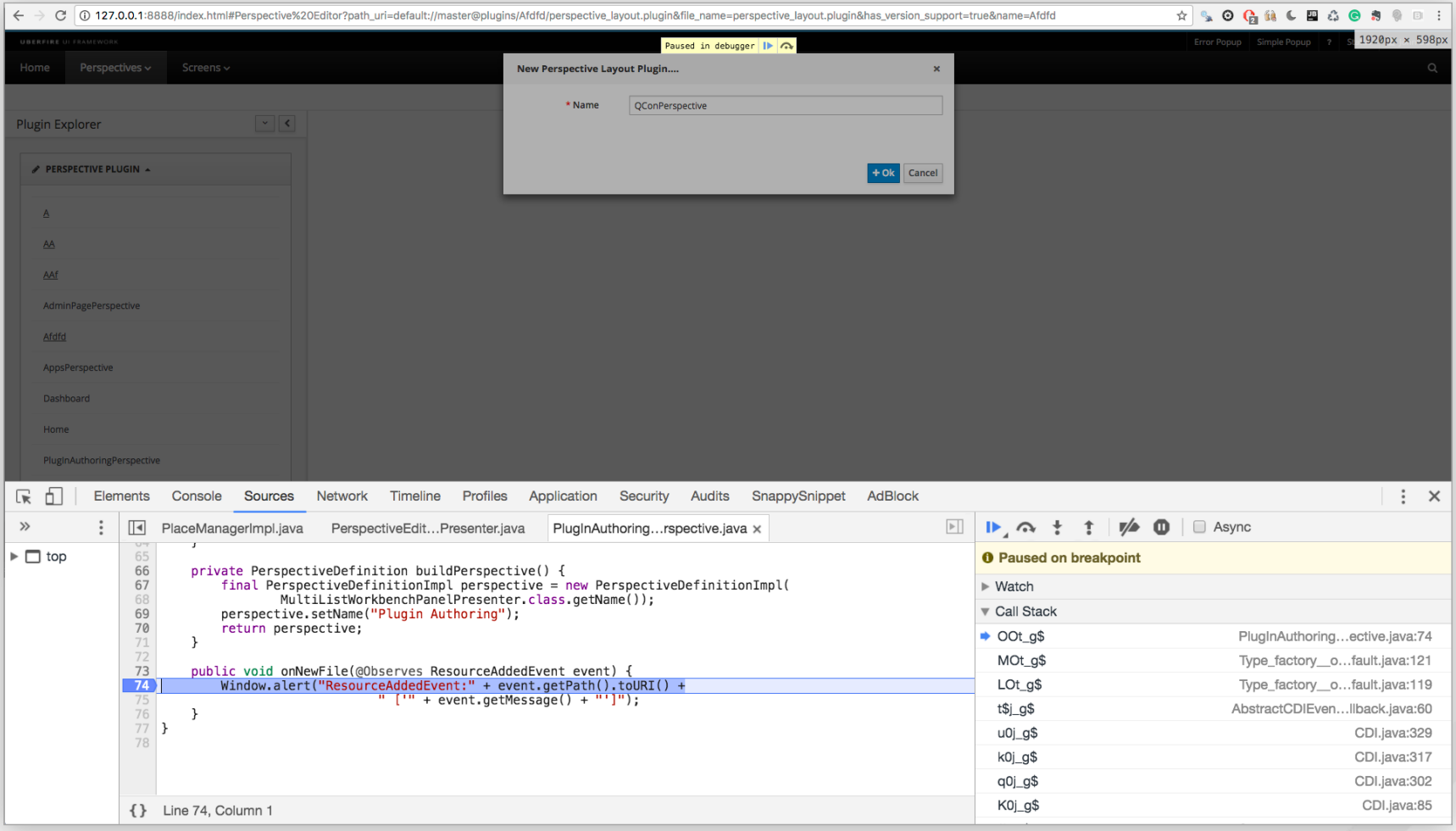
CDI no Browser

```
public void onNewFile(@Observes ResourceAddedEvent event) {

    Window.alert("ResourceAddedEvent:" +
                 event.getPath().toURI() +
                 " ['" + event.getMessage() + "']");

}
```

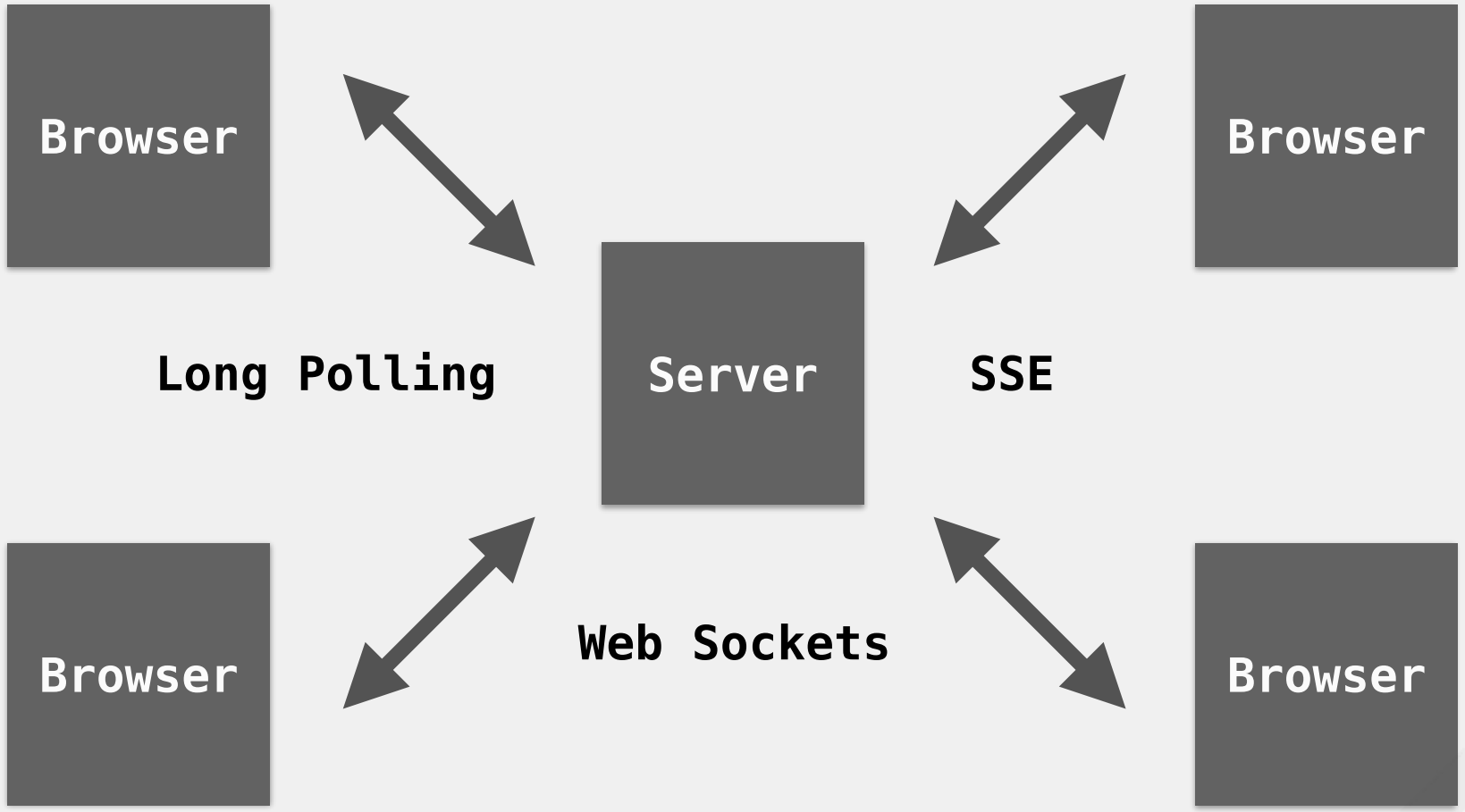
CDI no Browser




```
65
66      private PerspectiveDefinition buildPerspective() {
67          final PerspectiveDefinitionImpl perspective = new PerspectiveDefinitionImpl(
68                  MultiListWorkbenchPanelPresenter.class.getName());
69          perspective.setName("Plugin Authoring");
70          return perspective;
71      }
72
73      public void onNewFile(@Observes ResourceAddedEvent event) {
74          Window.alert("ResourceAddedEvent:" + event.getPath().toURI() +
75                               " ['" + event.getMessage() + "']");
76      }
77  }
78
```

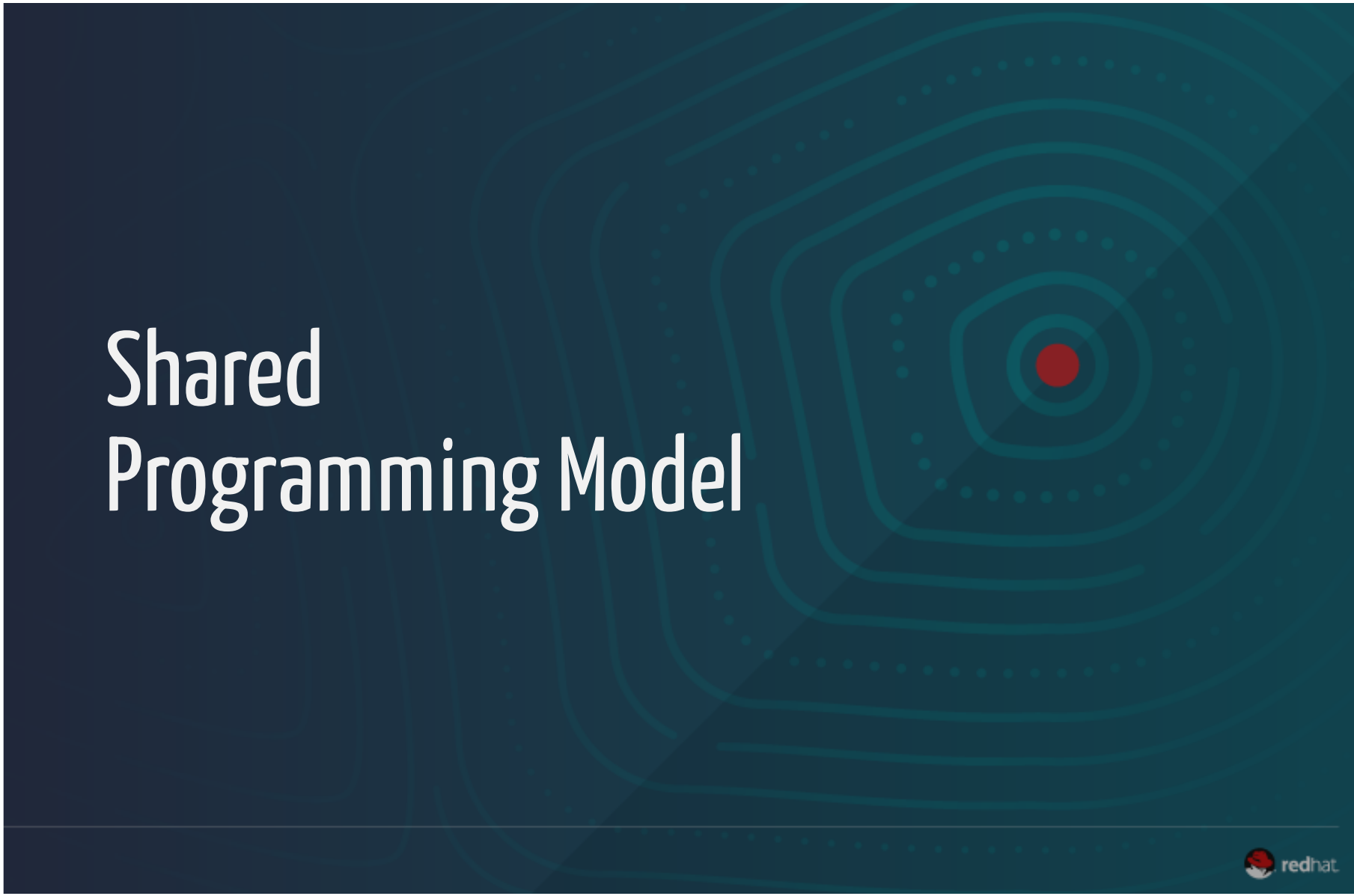
redhat

ERRAI BUS


Browser
Browser
Long Polling
Server
SSE
Browser
Web Sockets
Browser

Devs Full Stack

Shared Programming Model



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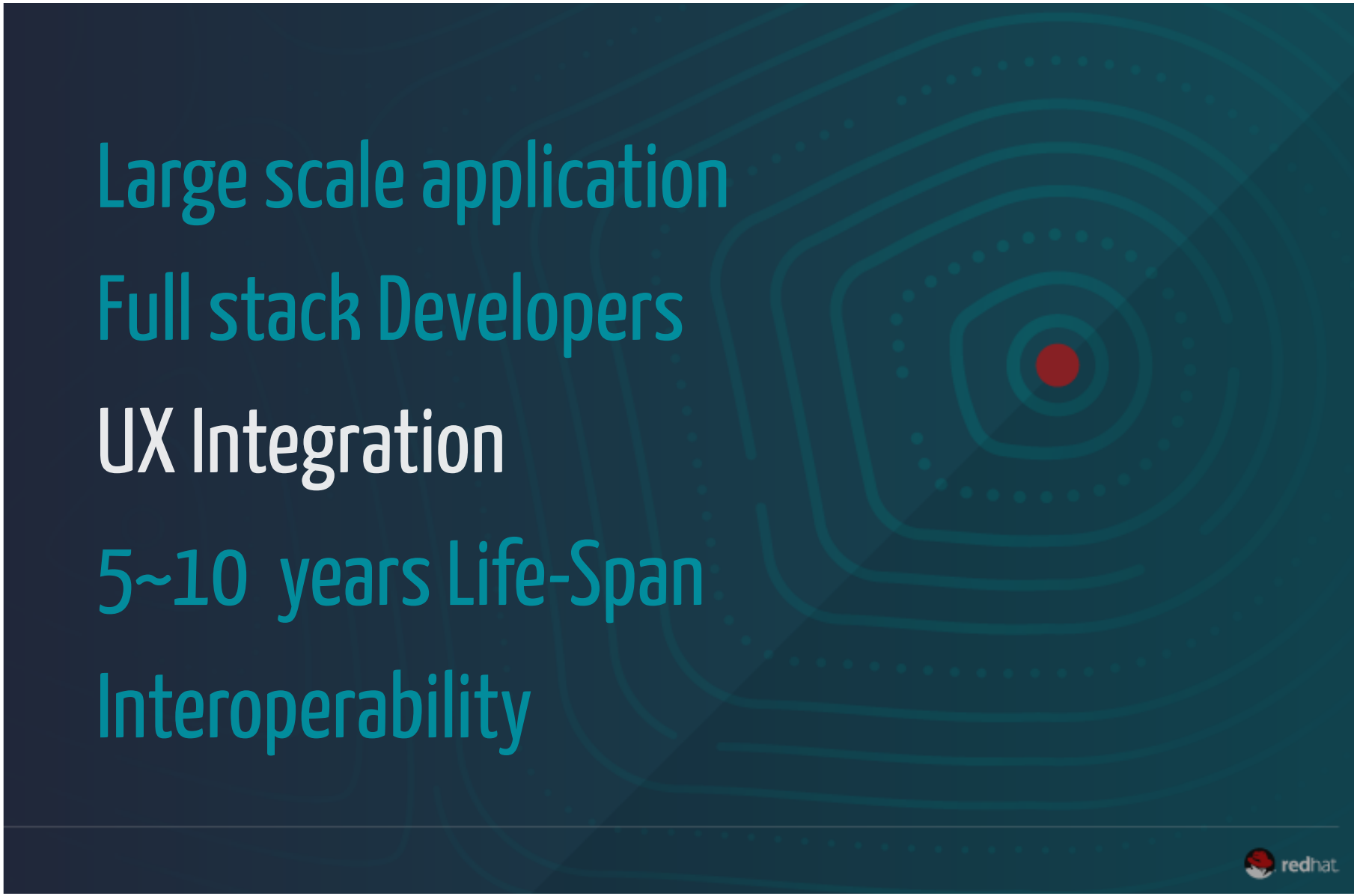


```
<form action="orderResult.jsp" method="POST">
    <h3>Pizza Types</h3>
    <div>
        <ul>
            <% for ( Pizza pizza : pizzaTypes ) { %>
            <li>
                <input type="radio" name="pizzaTypeOptions" value="<%=pizza.getName()%>" checked />
                <span class="pizzaType"><%=pizza.getName()%></span>
                <span class="pizzaPrice"><%=pizza.getPrice()%>$</span>
            </li>
            <% } %>
        </ul>
    </div>
    <h3>Size</h3>
    <h3>Extra Toppings</h3>
    <div class="section group">
        <% for ( int j = 0; j < 3; j++ ) { %>
        <div class="col span_1_of_3">
            <ul class="ul_2">
                <% for ( int i = sliceSize * j; i < ( j + 1 ) * sliceSize; i++ ) { %>
                <li class="li_2">
                    <input type="checkbox" name="pizzaToppings" value="<%=pizzaToppings.get( i )%>"/>
                    <%=pizzaToppings.get( i )%>
                </li>
                <% }
                if ( j == 0 && remainder > 0 ) {
                %>
                <li class="li_2">
                    <input type="checkbox" name="pizzaToppings" value="<%=pizzaToppings.get( pizzaToppings.size() - 2 )%>"/>
                    <%=pizzaToppings.get( pizzaToppings.size() - 2 )
                </li>
                <% } else if ( j == 1 && remainder > 1 ) { %>
                <li class="li_2">
                    <input type="checkbox" name="pizzaToppings" value="<%=pizzaToppings.get( pizzaToppings.size() - 1 )%>"/>
                    <%=pizzaToppings.get( pizzaToppings.size() - 1 )%>
                </li>
                <% } %>
            </ul>
        </div>
        <% } %>
    </div>
    <h4>Each extra topping is 0.65$</h4>
    <input type="submit" value="Order"/>
</form>
```

```
<h1>{{title}}</h1>
<h2>My favorite hero is: {{myHero}}</h2>
<p>Heroes:</p>
<ul>
  <li *ngFor="let hero of heroes">
    {{ hero }}
  </li>
</ul>
```

```
<div>
    <ul class="list-group" data-field="projects-list">
    </ul>
    <button type="button" class="btn" data-field="new-project">
        <i class="fa fa-plus"></i> New Project
    </button>
</div>
```

ERRAI UI

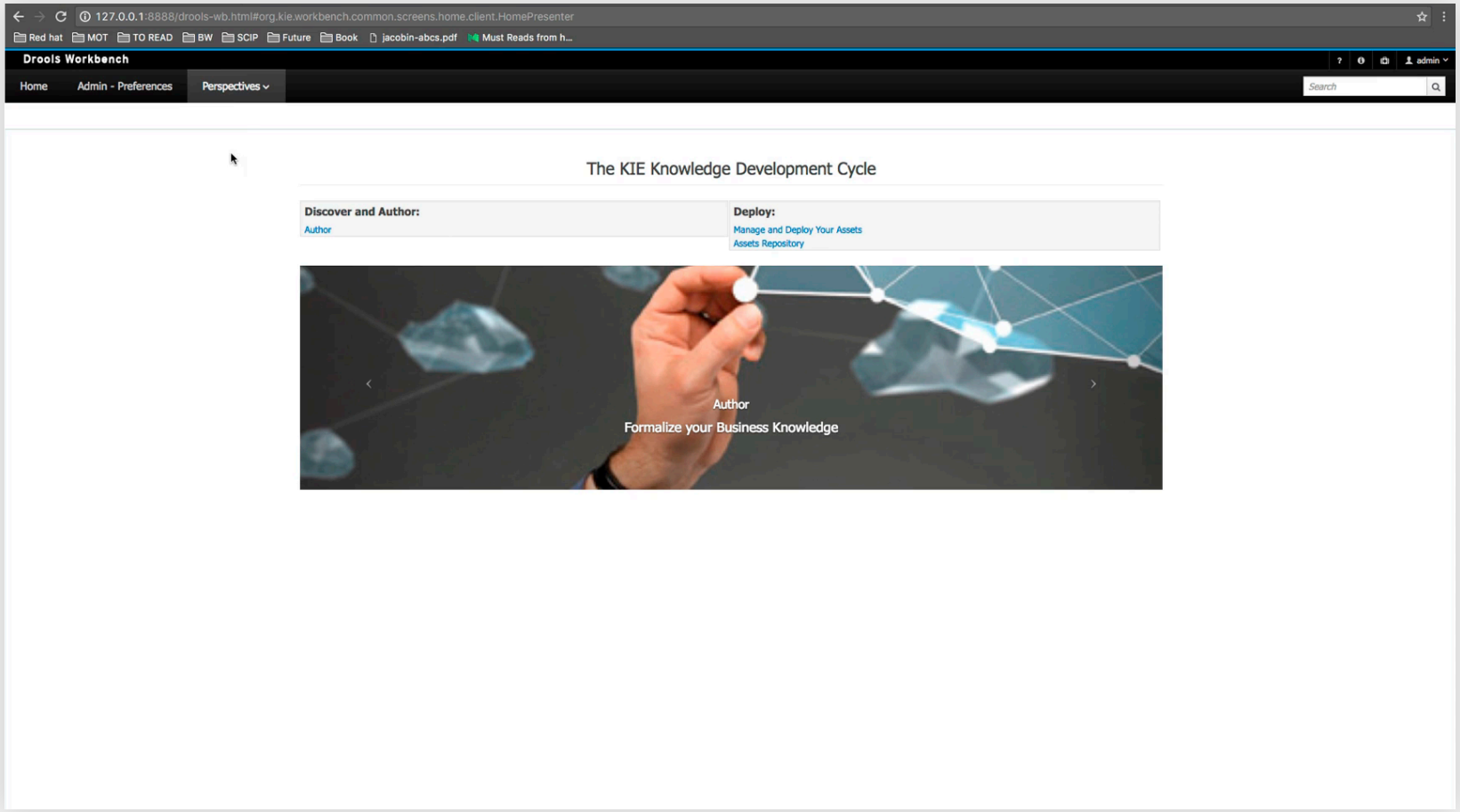
```
@Dependent
@Templated
public class ProjectsView {

    @Inject
    @DataField( "projects-view" )
    Div view;

    @Inject
    @DataField( "new-project" )
    Button newProject;

    @Inject
    @DataField( "projects-list" )
    UnorderedList projectsList;

}
```

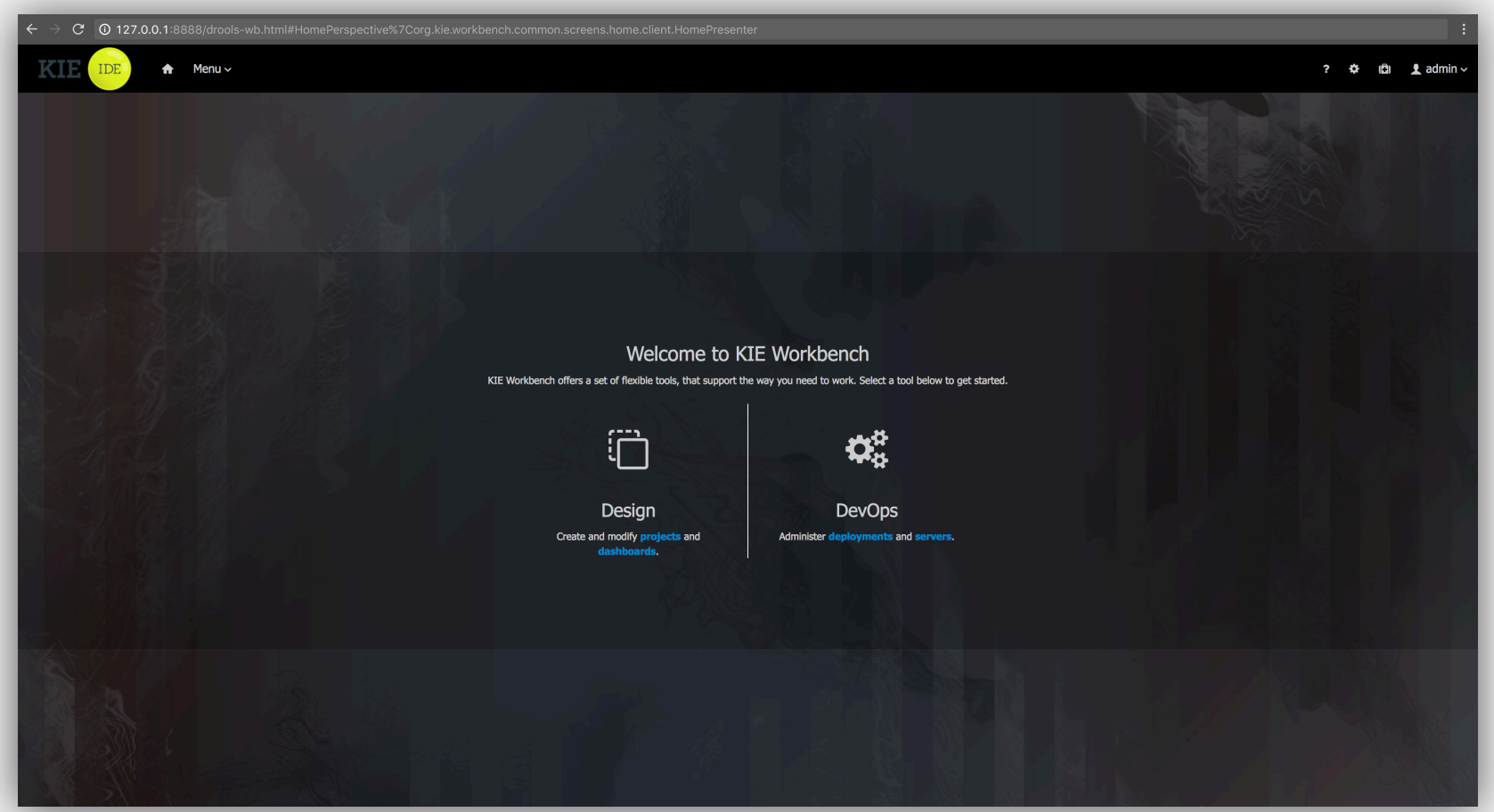

127.0.0.1:8888/drools-wb.html#org.kie.workbench.common.screens.home.client.HomePresenter
Red hat
MOT
TO READ
BW
SCIP
Future
Book
jacobin-abcs.pdf
Must Reads from h...
Drools Workbench
admin
Home
Admin - Preferences
Perspectives
Search
The KIE Knowledge Development Cycle
Discover and Author:
Author
Deploy:
Manage and Deploy Your Assets
Assets Repository
Author
Formalize your Business Knowledge

```
<!-- Masthead -->
<nav class="navbar navbar-default navbar-pf ">
  <div class="navbar-header ">
    <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse-2">
      <span class="sr-only">Toggle navigation</span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
    </button>
    <a href="/" class="navbar-brand">
      <img src="images/BPMSuite.svg" alt="JBoss BPM Suite" />
    </a>
  </div>

  <div class="collapse navbar-collapse navbar-collapse-2">

    <ul class="nav navbar-nav "><!-- navbar-iconic -->
      <li class="dropdown">
        <a class="dropdown-toggle nav-item-iconic" id="dropdownMenu2" data-toggle="dropdown" aria-haspopup="true" aria-expanded="true">
          Home
          <span class="caret"></span>
        </a>
        <ul class="dropdown-menu" aria-labelledby="dropdownMenu2">
          <li><a href="#">Design</a></li>
          <li><a href="#">Processes &amp;amp; Tasks</a></li>
          <li><a href="#">Runtime</a></li>
          <li><a href="#">Settings</a></li>
        </ul>
      </li>
    </ul>

    <ul class="nav navbar-nav navbar-right">
      <li class="dropdown">
        <a class="dropdown-toggle nav-item-iconic" id="notifications" data-toggle="dropdown" aria-haspopup="true" aria-expanded="true">
          <span title="Notifications" class="fa pficon-warning-triangle-o"></span>
          Messages: 0
        </a>
        <div class="dropdown-menu infotip bottom-right">
          <div class="arrow"></div>
          <ul class="list-group">
            <li class="list-group-item">
              <span class="i pficon pficon-info"></span> Modified Datasources ExampleDS
            </li>
            <li class="list-group-item">
              <span class="i pficon pficon-info"></span> Error: System Failure
            </li>
          </ul>
          <div class="footer">
            <a>Clear Messages</a>
          </div>
        </div>
      </li>
      <li class="dropdown">
        <a class="dropdown-toggle nav-item-iconic" id="dropdownMenu2" data-toggle="dropdown" aria-haspopup="true" aria-expanded="true">
          <span title="Username" class="fa pficon-user"></span>
          Brian Johnson
          <span class="caret"></span>
        </a>
        <ul class="dropdown-menu" aria-labelledby="dropdownMenu2">
...
```


127.0.0.1:8888/drools-wb.html#HomePerspective%7Corg.kie.workbench.common.screens.home.client.HomePresenter
KIE
IDE
Menu
admin
Welcome to KIE Workbench
KIE Workbench offers a set of flexible tools, that support the way you need to work. Select a tool below to get started.
Design
Create and modify projects and dashboards.
DevOps
Administer deployments and servers.

UX Integration

Leave the HTML/CSS in peace

5 pillars:

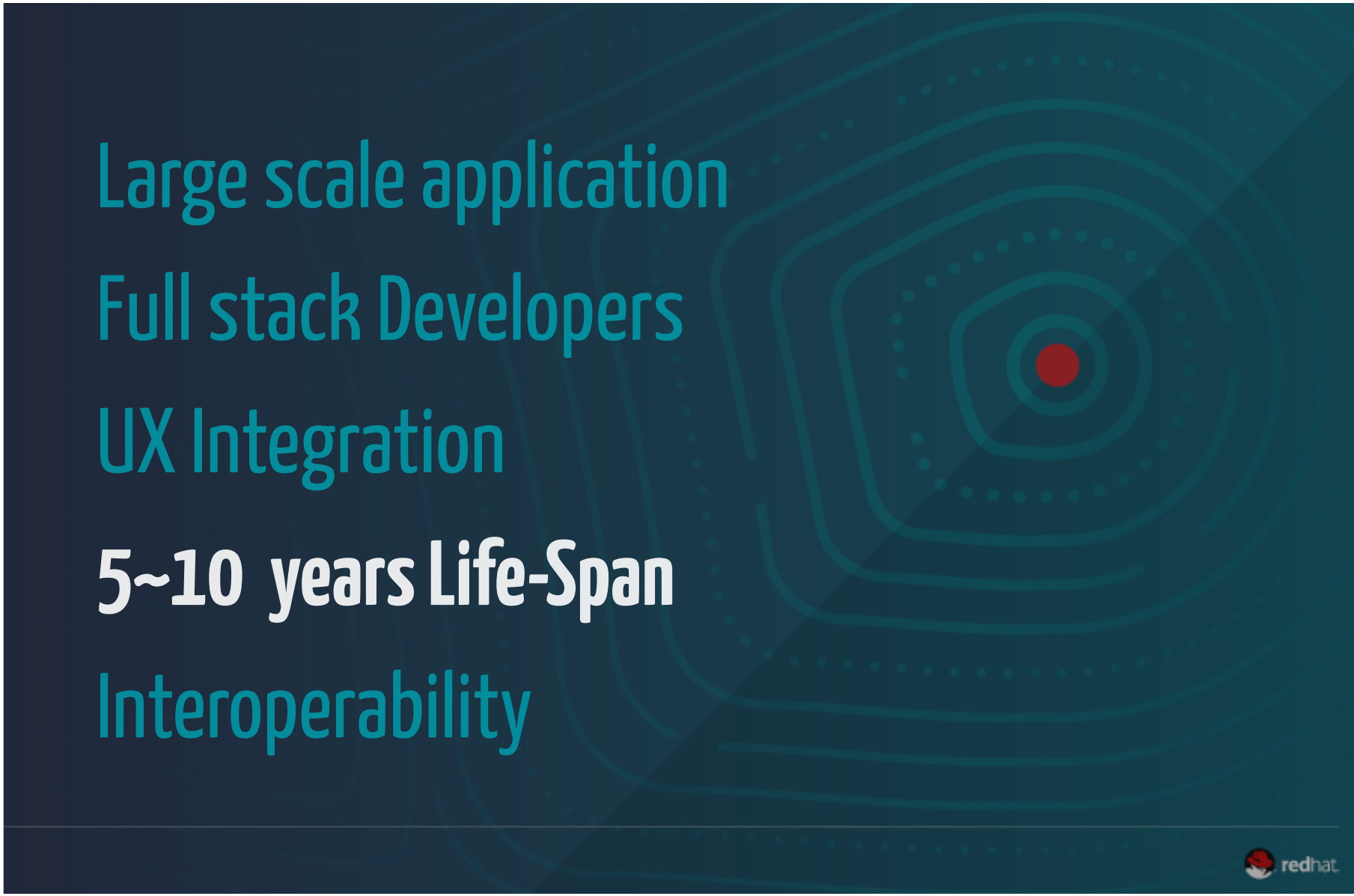
Large scale application

Full stack Developers

UX Integration

5~10 years Life-Span

Interoperability



Architecture

Hexagonal Architecture - Alistair Cockburn

Onion Architecture - Jeffrey Palermo

DCI - James Coplien e Trygve Reenskaug.

BCE - Ivar Jacobson

Clean Architecture - Robert C. Martin

Principles

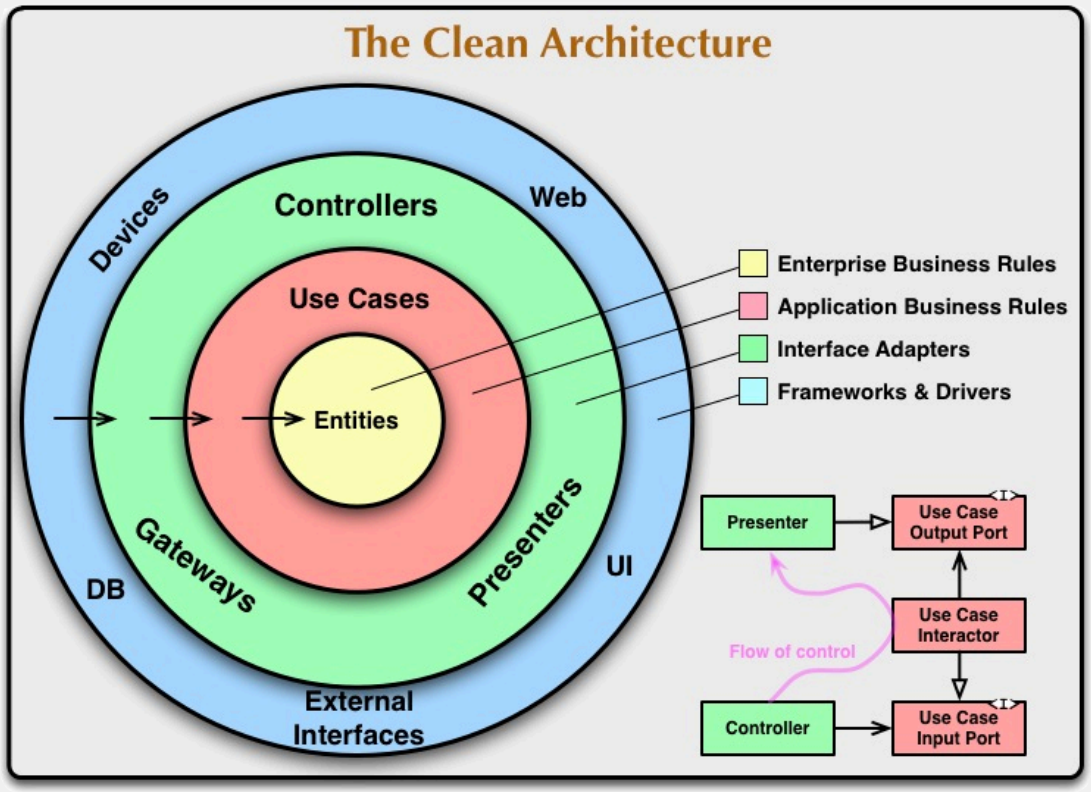
Decoupled from Frameworks

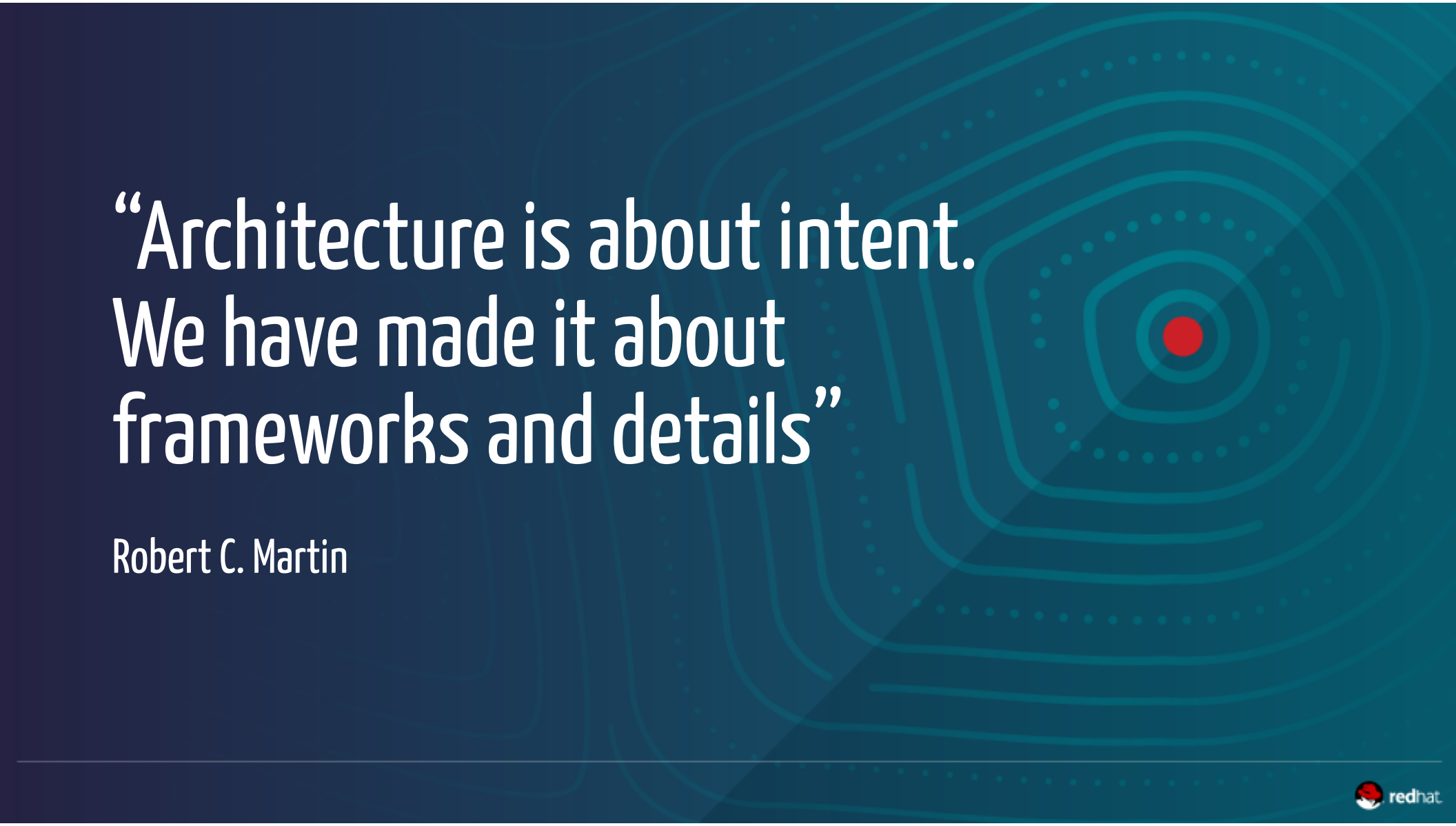
Testable

Decoupled from UI

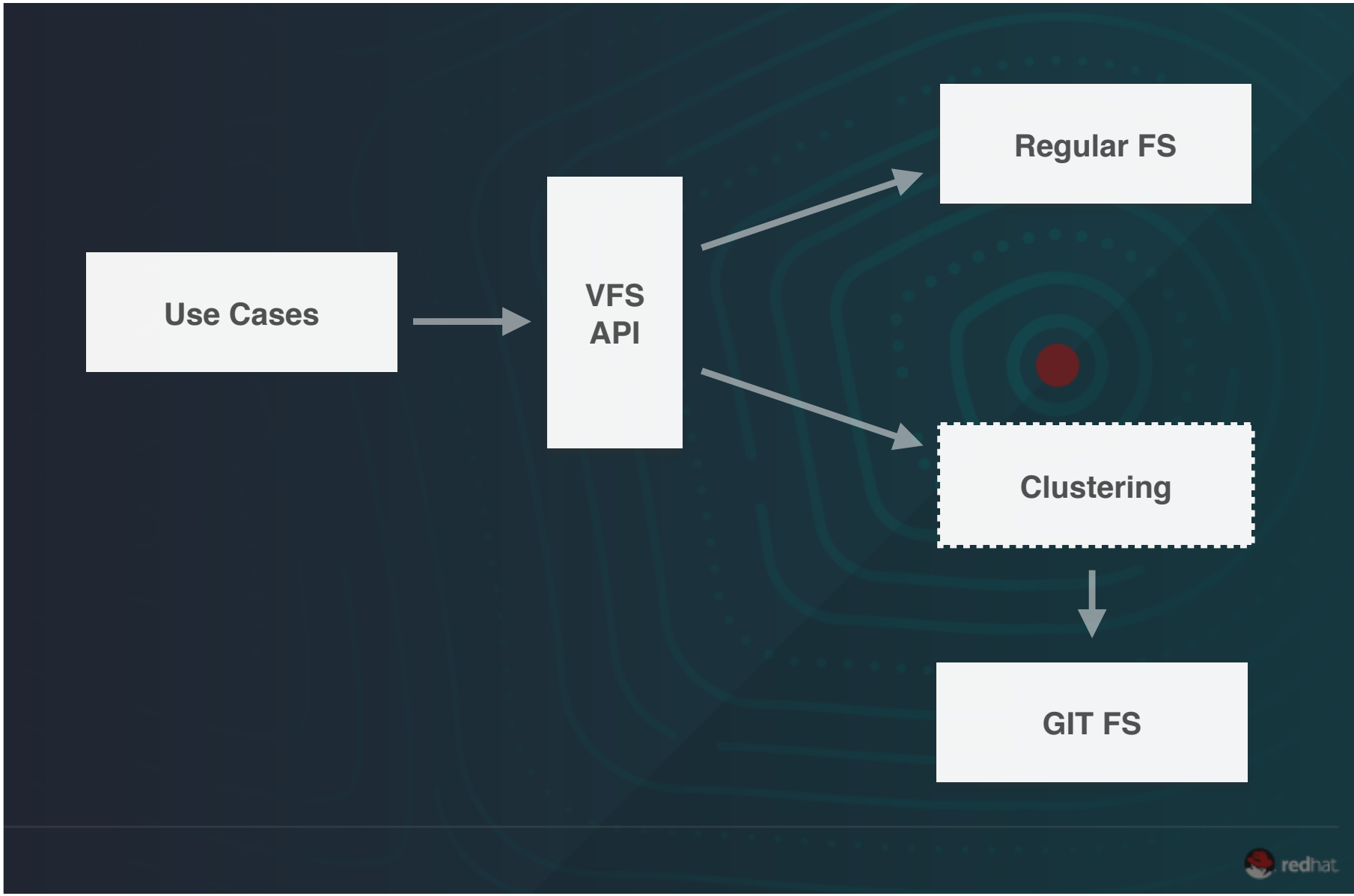
Decoupled from Database

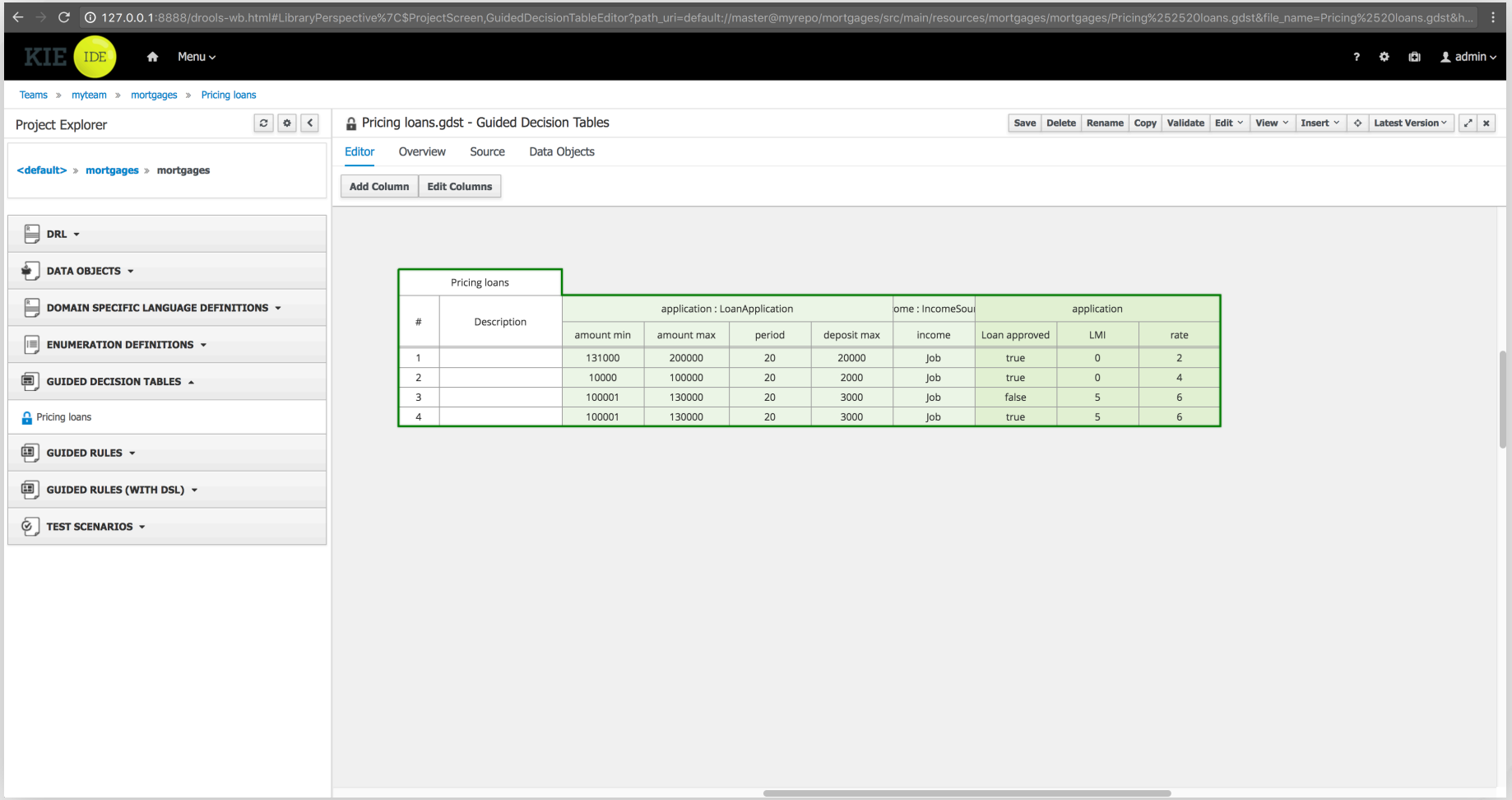
Independent of external systems


The Clean Architecture
Devices
Controllers
Web
Use Cases
Entities
Gateways
Presenters
DB
UI
External
Interfaces
Enterprise Business Rules
Application Business Rules
Interface Adapters
Frameworks & Drivers
Presenter
Use Case
Output Port
Use Case
Interactor
Flow of control
Controller
Use Case
Input Port


“Architecture is about intent.
We have made it about
frameworks and details”
Robert C. Martin
redhat

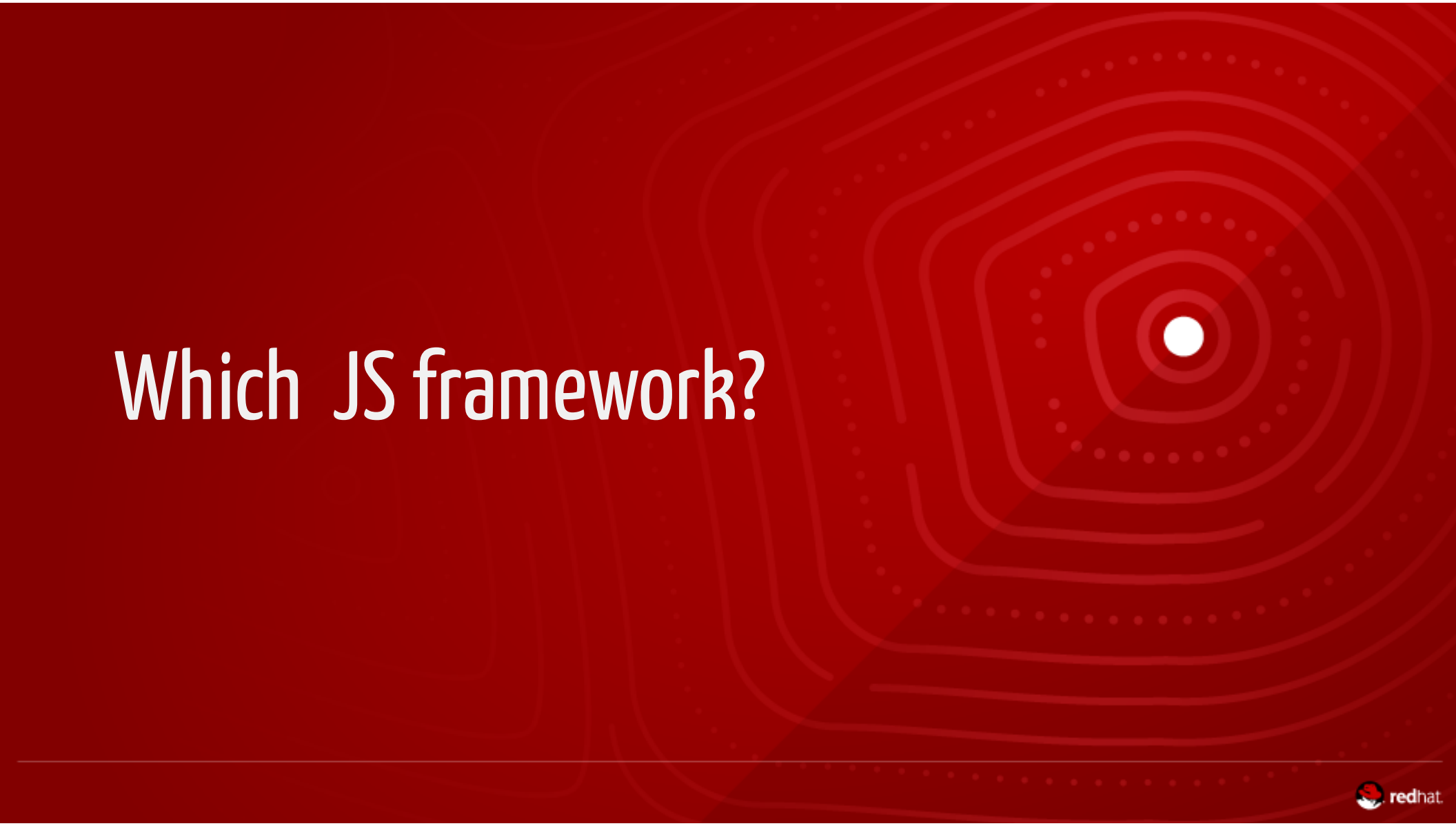
APPFORMER VFS




127.0.0.1:8888/drools-wb.html#LibraryPerspective%7C$ProjectScreen,GuidedDecisionTableEditor?path_uri=default://master@myrepo/mortgages/src/main/resources/mortgages/mortgages/Pricing%252520loans.gdst&file_name=Pricing%2520loans.gdst&h...
KIE IDE
Menu
admin
Teams » myteam » mortgages » Pricing loans
Project Explorer
<default> » mortgages » mortgages
DRL
DATA OBJECTS
DOMAIN SPECIFIC LANGUAGE DEFINITIONS
ENUMERATION DEFINITIONS
GUIDED DECISION TABLES
Pricing loans
GUIDED RULES
GUIDED RULES (WITH DSL)
TEST SCENARIOS
Pricing loans.gdst - Guided Decision Tables
Save Delete Rename Copy Validate Edit View Insert Latest Version
Editor Overview Source Data Objects
Add Column Edit Columns
Pricing loans
Description application : LoanApplication ome : IncomeSou application
amount min amount max period deposit max income Loan approved LMI rate
1 131000 200000 20 20000 Job true 0 2
2 10000 100000 20 2000 Job true 0 4
3 100001 130000 20 3000 Job false 5 6
4 100001 130000 20 3000 Job true 5 6

Which web framework should I use?

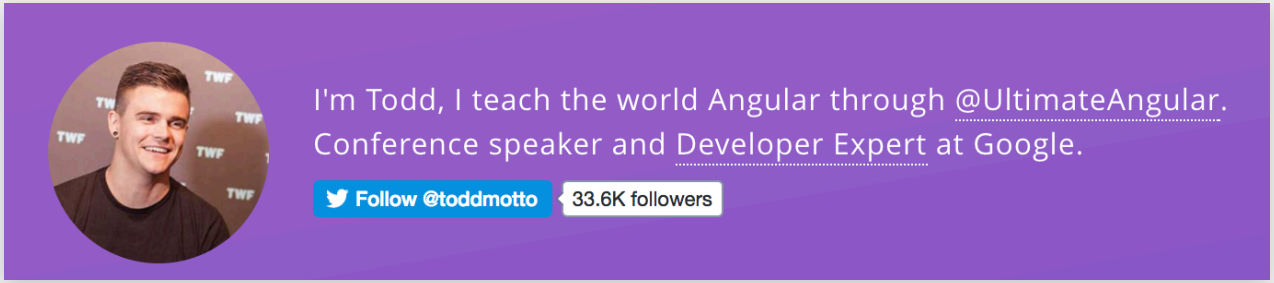
Which JS framework?



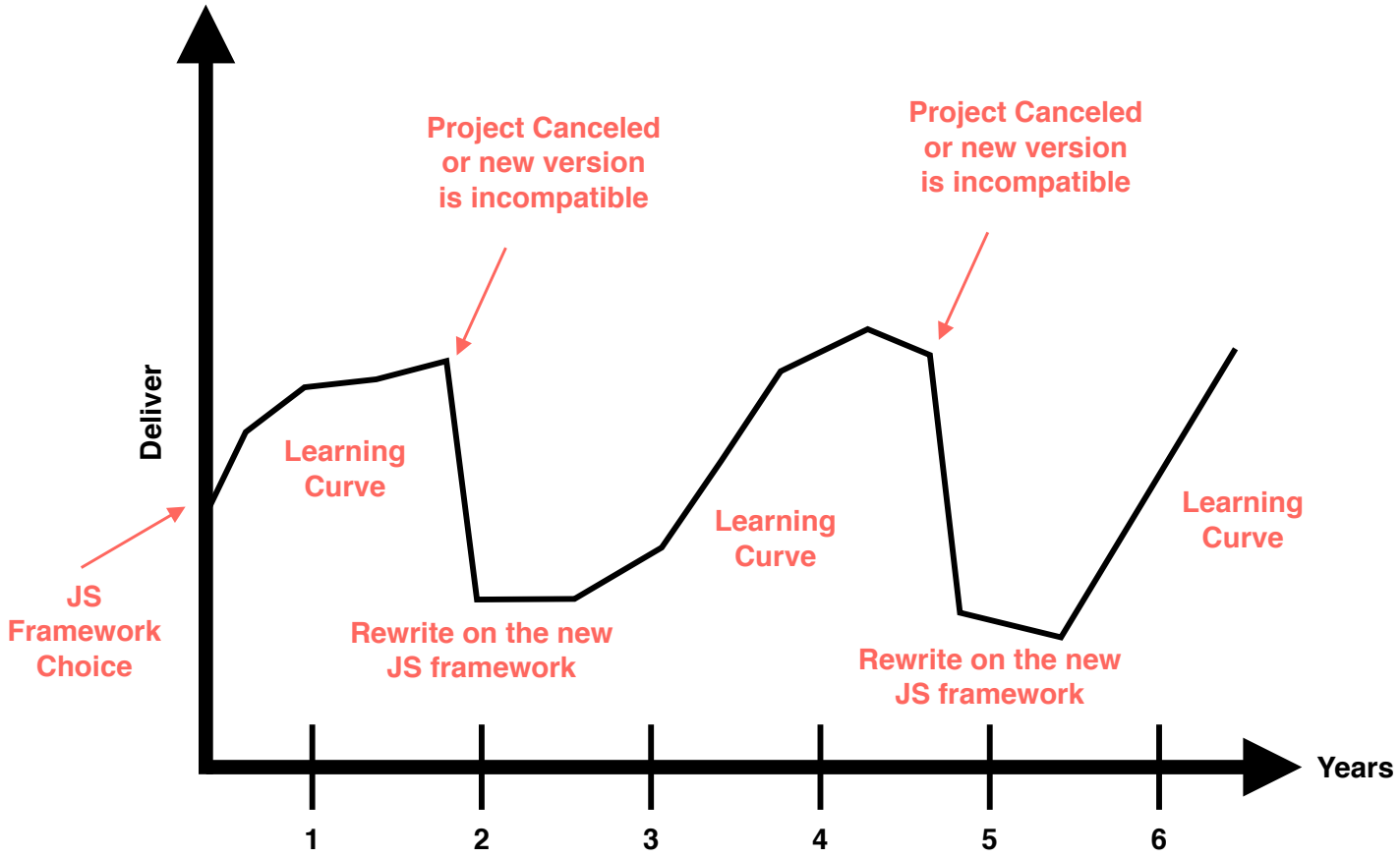

Danger
First
Release
Years
0
1
2
3
4
5
6
JS framework
choice

What's next for Angular 1.x?

"In all honesty, no one really knows what will happen"



https://toddmotto.com/future-of-angular-1-x

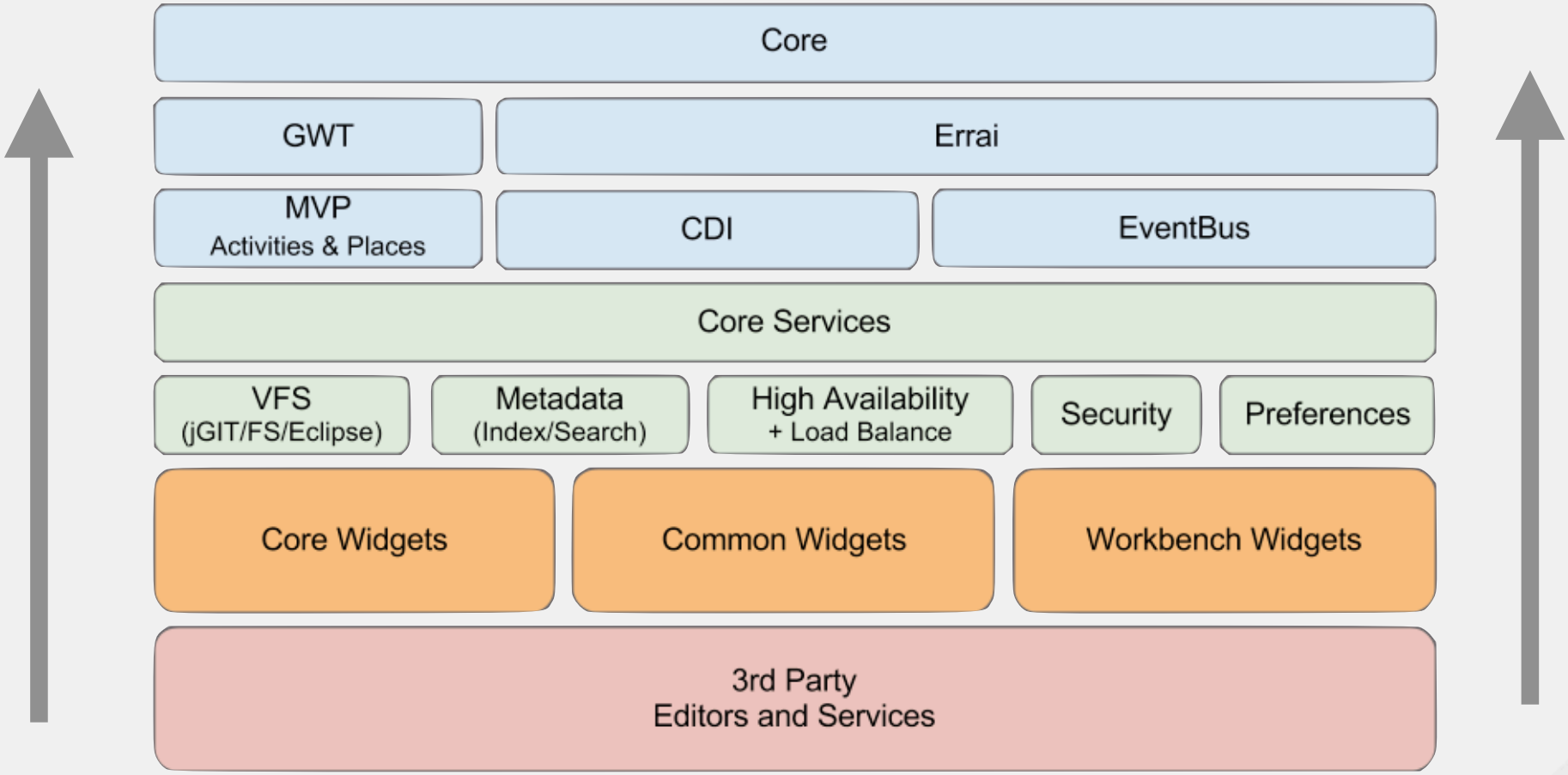

Project Canceled
or new version
is incompatible
Project Canceled
or new version
is incompatible
Deliver
Learning
Curve
Learning
Curve
Learning
Curve
JS
Framework
Choice
Rewrite on the new
JS framework
Rewrite on the new
JS framework
Years
1
2
3
4
5
6

“A good architecture allows volatile decisions to be easily changed”

Robert C. Martin

What if I dealt with the volatility of JS frameworks as a fact?


AppFormer


Core
GWT
Errai
MVP
Activities & Places
CDI
EventBus
Core Services
VFS
(jGIT/FS/Eclipse)
Metadata
(Index/Search)
High Availability
+ Load Balance
Security
Preferences
Core Widgets
Common Widgets
Workbench Widgets
3rd Party
Editors and Services

Programming Model

Component Model:

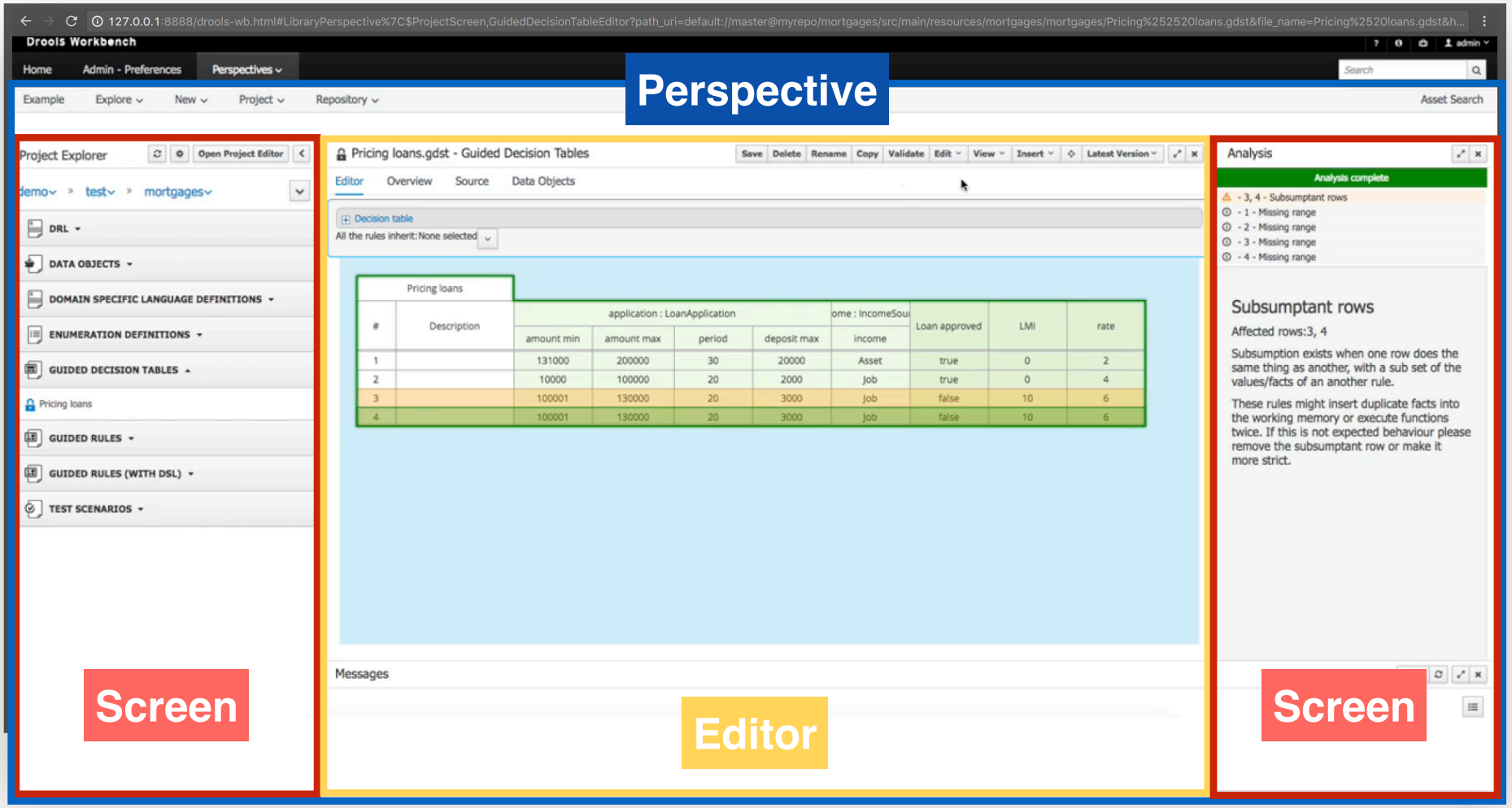
- Screen
- Editors
- Perspectives
- Popups

Programming Model

LifeCycle:

- OnStart
- OnSave
- IsDirty
- OnClose

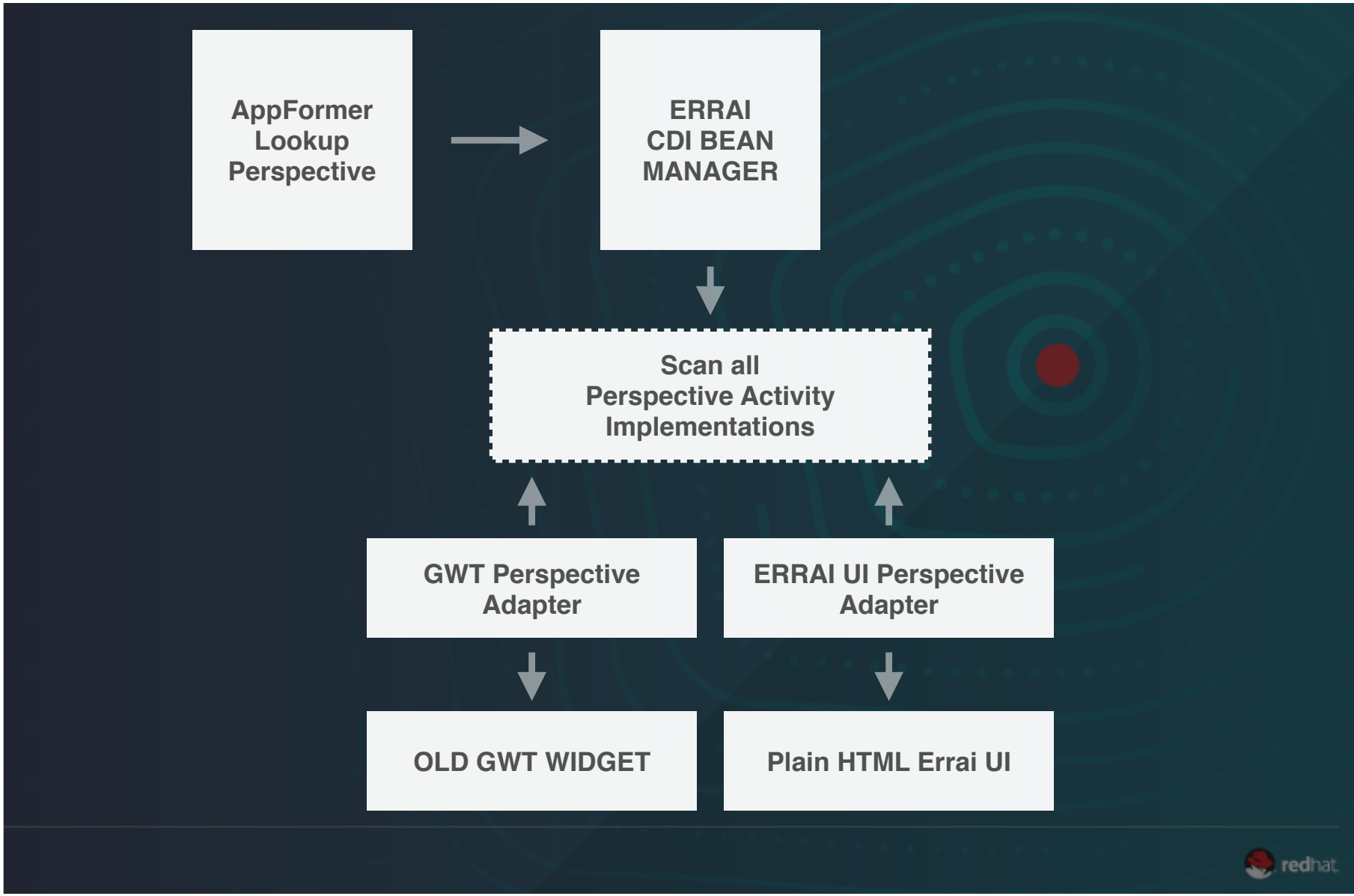
...

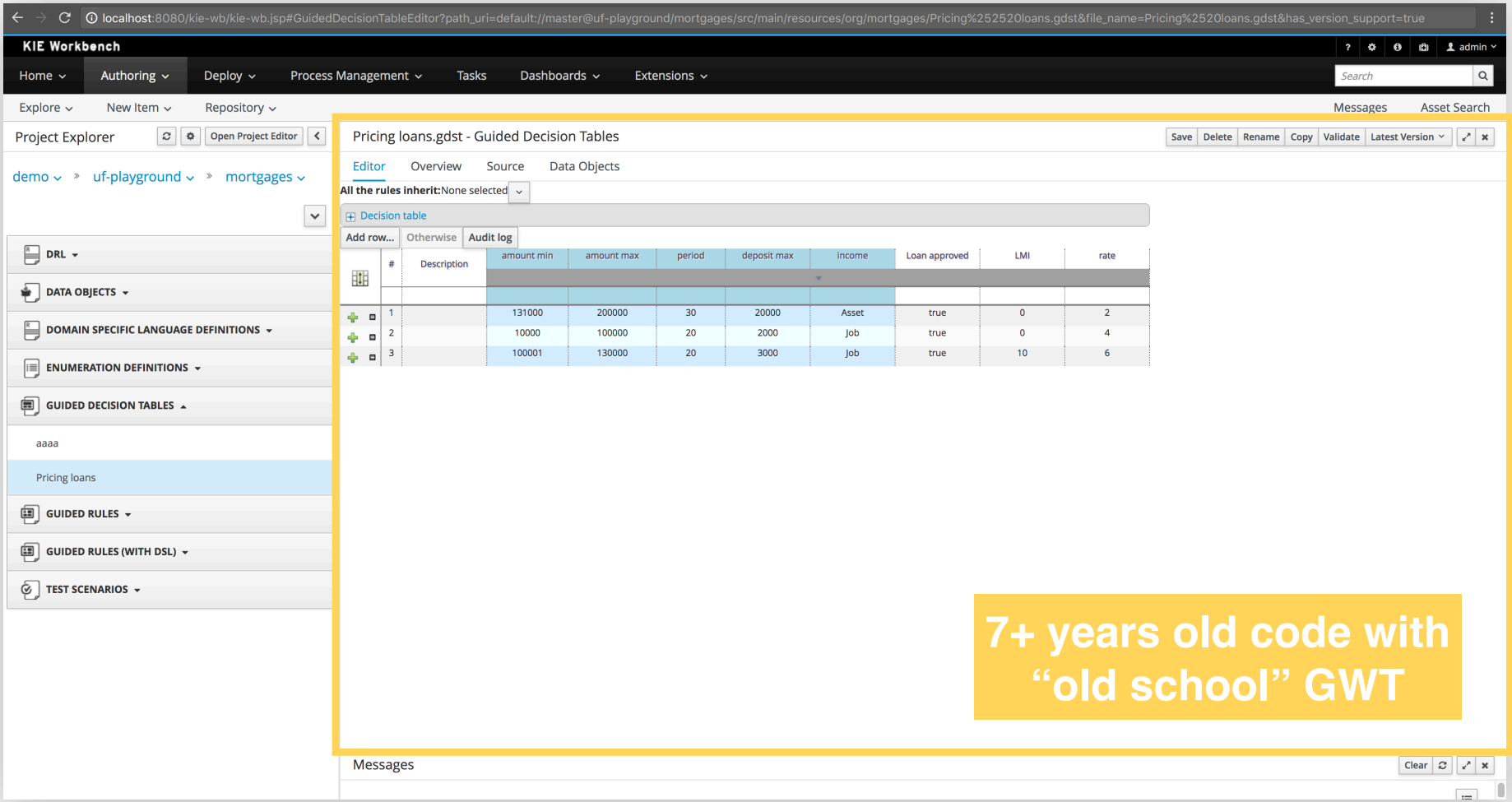

Drools Workbench
Home
Admin - Preferences
Perspectives
Perspective
Example
Explore
New
Project
Repository
Asset Search
Project Explorer
Open Project Editor
demo
test
mortgages
DRL
DATA OBJECTS
DOMAIN SPECIFIC LANGUAGE DEFINITIONS
ENUMERATION DEFINITIONS
GUIDED DECISION TABLES
Pricing loans
GUIDED RULES
GUIDED RULES (WITH DSL)
TEST SCENARIOS
Screen
Pricing loans.gdst - Guided Decision Tables
Save
Delete
Rename
Copy
Validate
Edit
View
Insert
Latest Version
Editor
Overview
Source
Data Objects
Decision table
All the rules inherit: None selected
Pricing loans
| Description | application : LoanApplication | | | | ome : IncomeSou | Loan approved | LMI | rate
amount min | amount max | period | deposit max | income
1 | | 131000 | 200000 | 30 | 20000 | Asset | true | 0 | 2
2 | | 10000 | 100000 | 20 | 2000 | Job | true | 0 | 4
3 | | 100001 | 130000 | 20 | 3000 | Job | false | 10 | 6
4 | | 100001 | 130000 | 20 | 3000 | Job | false | 10 | 6
Messages
Editor
Analysis
Analysis complete
- 3, 4 - Subsumptant rows
- 1 - Missing range
- 2 - Missing range
- 3 - Missing range
- 4 - Missing range
Subsumptant rows
Affected rows:3, 4
Subsumption exists when one row does the same thing as another, with a sub set of the values/facts of an another rule.
These rules might insert duplicate facts into the working memory or execute functions twice. If this is not expected behaviour please remove the subsumptant row or make it more strict.
Screen

Programming Model

Screen → Interface WorkbenchScreenActivity
Editor → Interface WorkbenchEditorActivity
Perspective → Interface PerspectiveActivity

Perspectives Lookup




localhost:8080/kie-wb/kie-wb.jsp#GuidedDecisionTableEditor?path_uri=default://master@uf-playground/mortgages/src/main/resources/org/mortgages/Pricing%252520loans.gdst&file_name=Pricing%2520loans.gdst&has_version_support=true
KIE Workbench
admin
Home
Authoring
Deploy
Process Management
Tasks
Dashboards
Extensions
Search
Explore
New Item
Repository
Messages
Asset Search
Project Explorer
Open Project Editor
demo
uf-playground
mortgages
DRL
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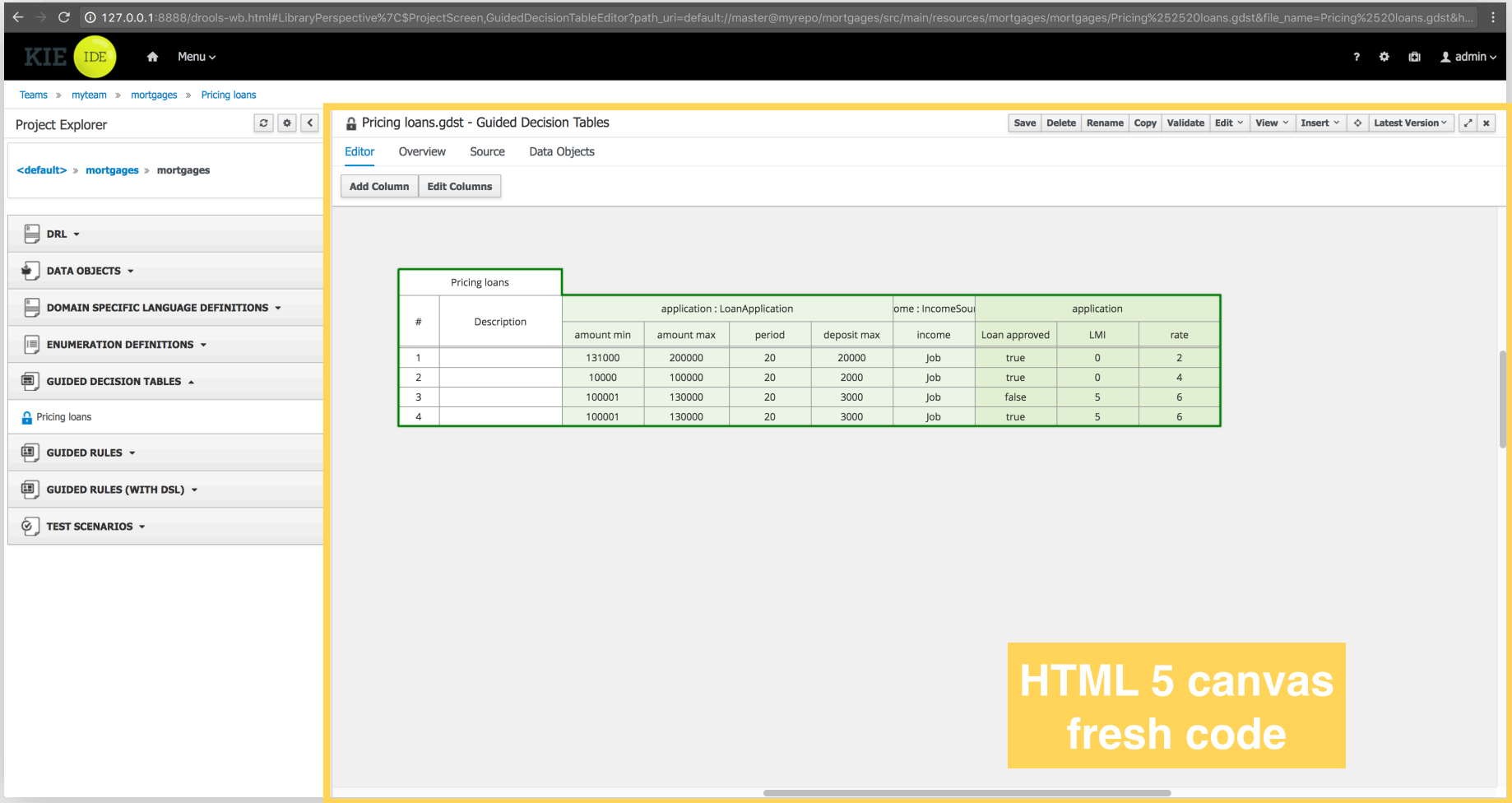
DOMAIN SPECIFIC LANGUAGE DEFINITIONS
ENUMERATION DEFINITIONS
GUIDED DECISION TABLES
aaaa
Pricing loans
GUIDED RULES
GUIDED RULES (WITH DSL)
TEST SCENARIOS
Pricing loans.gdst - Guided Decision Tables
Save
Delete
Rename
Copy
Validate
Latest Version
Editor
Overview
Source
Data Objects
All the rules inherit: None selected
Decision table
Add row...
Otherwise
Audit log
| Description | amount min | amount max | period | deposit max | income | Loan approved | LMI | rate
1 | 131000 | 200000 | 30 | 20000 | Asset | true | 0 | 2
2 | 10000 | 100000 | 20 | 2000 | Job | true | 0 | 4
3 | 100001 | 130000 | 20 | 3000 | Job | true | 10 | 6
7+ years old code with “old school” GWT
Messages
Clear


127.0.0.1:8888/drools-wb.html#LibraryPerspective%7C$ProjectScreen,GuidedDecisionTableEditor?path_uri=default://master@myrepo/mortgages/src/main/resources/mortgages/mortgages/Pricing%252520loans.gdst&file_name=Pricing%2520loans.gdst&h...
KIE IDE
Menu
admin
Teams » myteam » mortgages » Pricing loans
Project Explorer
<default> » mortgages » mortgages
DRL
DATA OBJECTS
DOMAIN SPECIFIC LANGUAGE DEFINITIONS
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Edit
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Insert
Latest Version
Editor
Overview
Source
Data Objects
Add Column
Edit Columns
Pricing loans
| Description | application : LoanApplication | ome : IncomeSou | application
amount min | amount max | period | deposit max | income | Loan approved | LMI | rate
1 | 131000 | 200000 | 20 | 20000 | Job | true | 0 | 2
2 | 10000 | 100000 | 20 | 2000 | Job | true | 0 | 4
3 | 100001 | 130000 | 20 | 3000 | Job | false | 5 | 6
4 | 100001 | 130000 | 20 | 3000 | Job | true | 5 | 6
HTML 5 canvas
fresh code

5~10 years Life-Span

The Web architecture should be treated with the same respect as you treat your backend.

5 pillars:

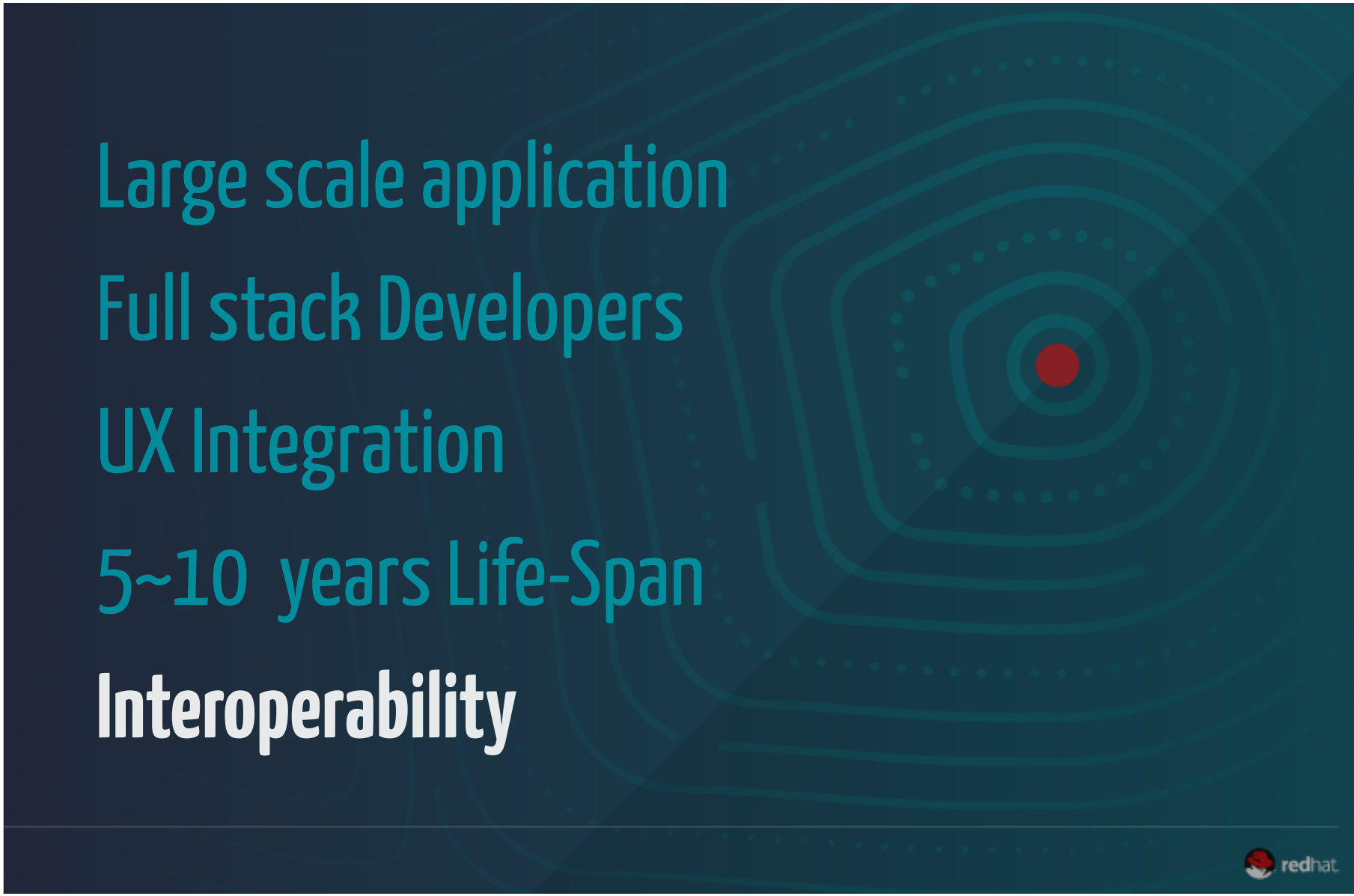
Large scale application

Full stack Developers

UX Integration

5~10 years Life-Span

Interoperability



```java
@WorkbenchPerspective(identifier = “HomePerspective", isDefault = true)
@Templated
public class HomePerspective implements IsElement {

    @Inject
    @DataField
    @WorkbenchPanel(parts = "MoodScreen?uber=fire&uber1=fire1")
    Div moodScreen;

    @Inject
    @DataField
    @WorkbenchPanel(parts = "HomeScreen?uber=fire")
    Div homeScreen;

    @Inject
    @DataField
    @WorkbenchPanel(parts = "AnotherScreen")
    Div anotherScreen;
}
```

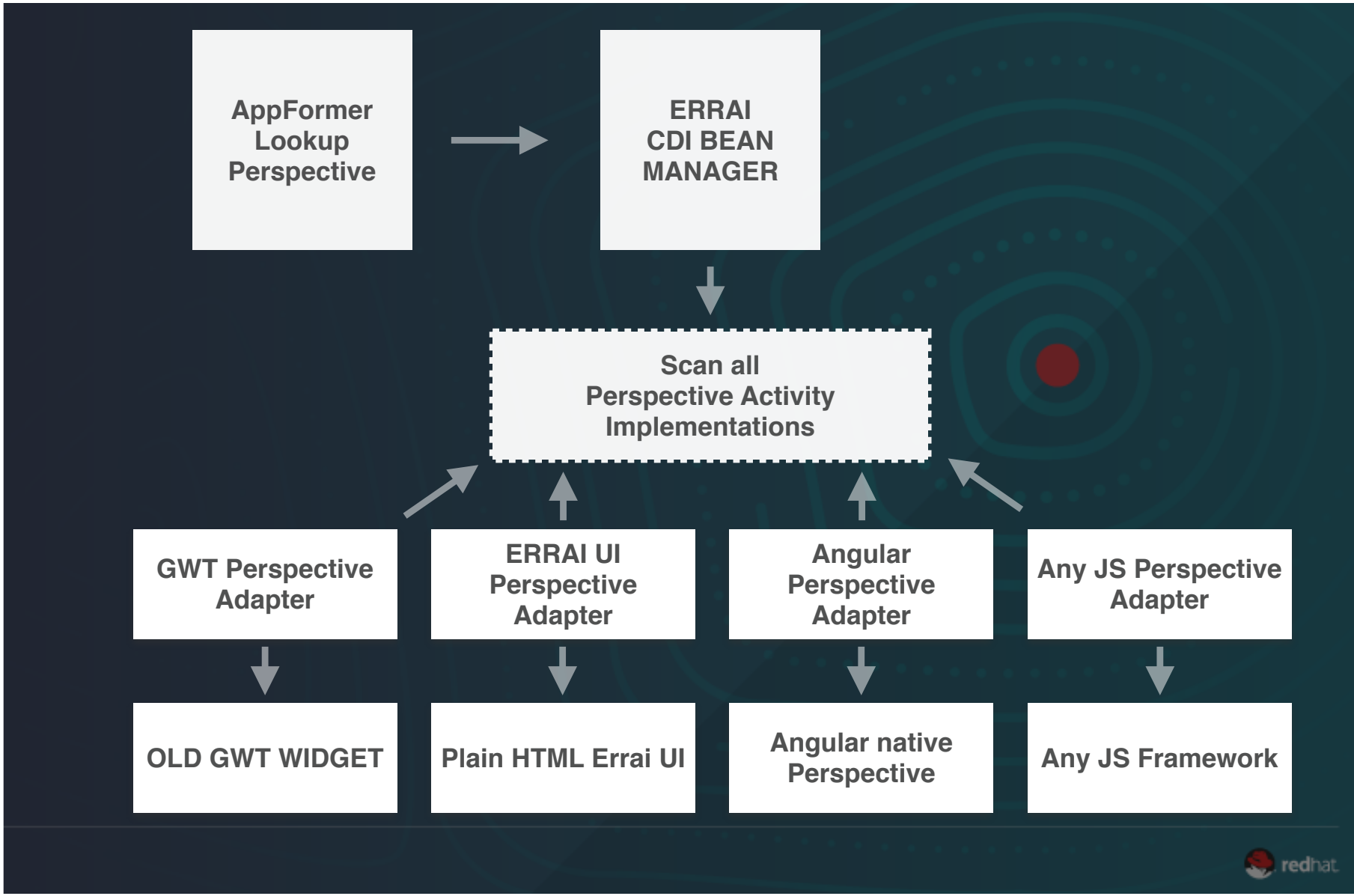
```java
@JsType
public interface PerspectiveActivity{

    PerspectiveDefinition getDefaultPerspectiveLayout();

    @Override
    default String getName() {
        return getDefaultPerspectiveLayout().getName();
    }

    boolean isDefault();

    Menus getMenus();

    ToolBar getToolBar();
}
```

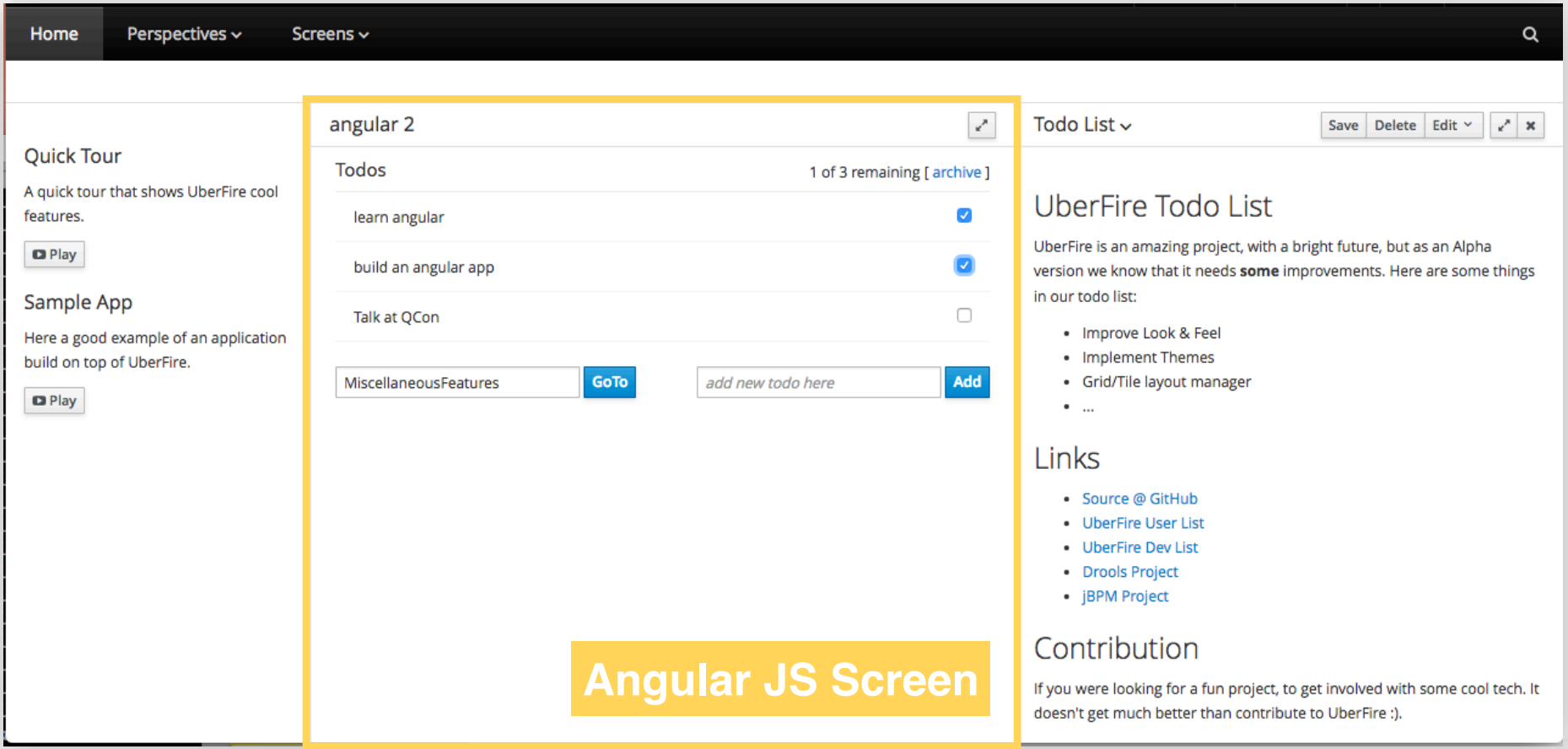
```
function TodoCtrl($scope) {

    $scope.placeText = "MiscellaneousFeatures";

    $scope.todos = [
        {text: 'learn angular', done: true},
        {text: 'build an angular app', done: false}
    ];

    $scope.addTodo = function () {
        $scope.todos.push({text: $scope.todoText, done: false});
        $scope.todoText = '';
    };

    $scope.remaining = function () {
        var count = 0;
        angular.forEach($scope.todos, function (todo) {
            count += todo.done ? 0 : 1;
        });
        return count;
    };

    $scope.archive = function () {
        var oldTodos = $scope.todos;
        $scope.todos = [];
        angular.forEach(oldTodos, function (todo) {
            if (!todo.done) {
                $scope.todos.push(todo);
            }
        });
    };

    $scope["goto"] = function () {
        $goToPlace($scope.placeText);
    };
}
```

```
<div class="container-fluid" ng-controller="TodoCtrl">
    <div class="row">
        <div class="col-md-12">
            <p class="pull-right" style="margin-top: 10px;">{{remaining()}} of {{todos.length}} remaining [
                <a href="" ng-click="archive()">archive</a> ]
            </p>
            <h4>Todos</h4>
            <ul class="list-group">
                <li class="list-group-item" ng-repeat="todo in todos">
                    <span class="done-{{todo.done}}">{{todo.text}}</span>
                    <input class="pull-right" type="checkbox" ng-model="todo.done">
                </li>
            </ul>
        </div>
    </div>
    <div class="row">
        <div class="col-md-6">
            <form class="form-inline" ng-submit="goto()">
                <div class="form-group">
                    <input type="text" ng-model="placeText" size="30" class="form-control" placeholder="place to go">
                    <input class="btn btn-primary" type="submit" value="GoTo">
                </div>
            </form>
        </div>
        <div class="col-md-6">
            <form class="form-inline pull-right" ng-submit="addTodo()">
            <div class="form-group">
                <input type="text" ng-model="todoText" size="30" class="form-control" placeholder="add new todo here">
                <input class="btn btn-primary" type="submit" value="Add">
            </div>
        </form>
        </div>
    </div>
</div>
```

```
$registerPlugin({
    id: "my_angular_js",
    type: "angularjs",
    templateUrl: "angular.sample.html",
    title: function () {
        return "angular " + Math.floor(Math.random() * 10);
    },
    on_close: function () {
        alert("this is a pure JS alert!");
    }
});
```

Perspectives




Home
Perspectives
Screens
Quick Tour
A quick tour that shows UberFire cool features.
Play
Sample App
Here a good example of an application build on top of UberFire.
Play
angular 2
Todos
1 of 3 remaining [archive]
learn angular
build an angular app
Talk at QCon
MiscellaneousFeatures
GoTo
add new todo here
Add
Angular JS Screen
Todo List
Save
Delete
Edit
UberFire Todo List
UberFire is an amazing project, with a bright future, but as an Alpha version we know that it needs some improvements. Here are some things in our todo list:
Improve Look & Feel
Implement Themes
Grid/Tile layout manager
...
Links
Source @ GitHub
UberFire User List
UberFire Dev List
Drools Project
jBPM Project
Contribution
If you were looking for a fun project, to get involved with some cool tech. It doesn't get much better than contribute to UberFire :).

5 pillars:

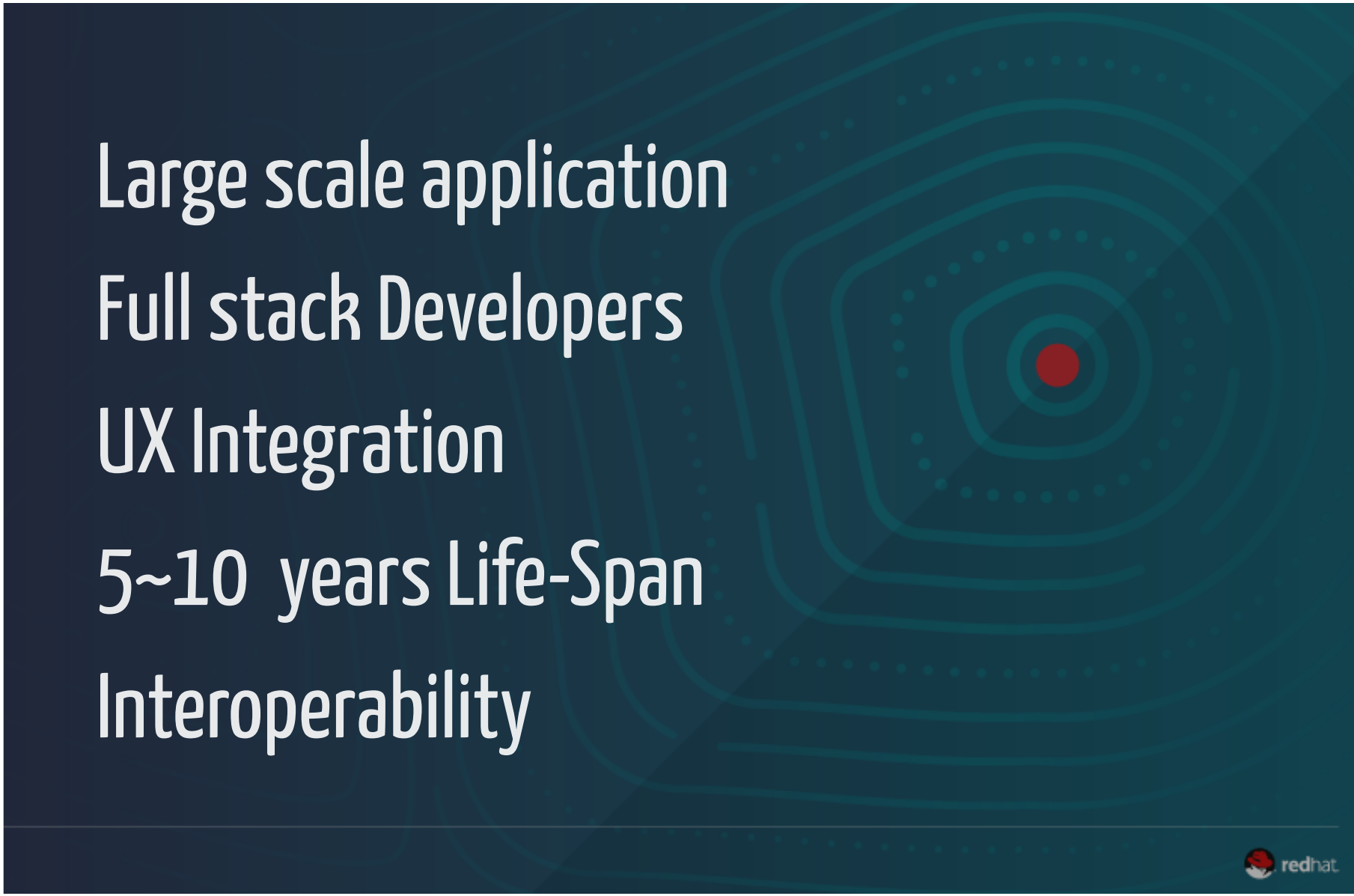
Large scale application

Full stack Developers

UX Integration

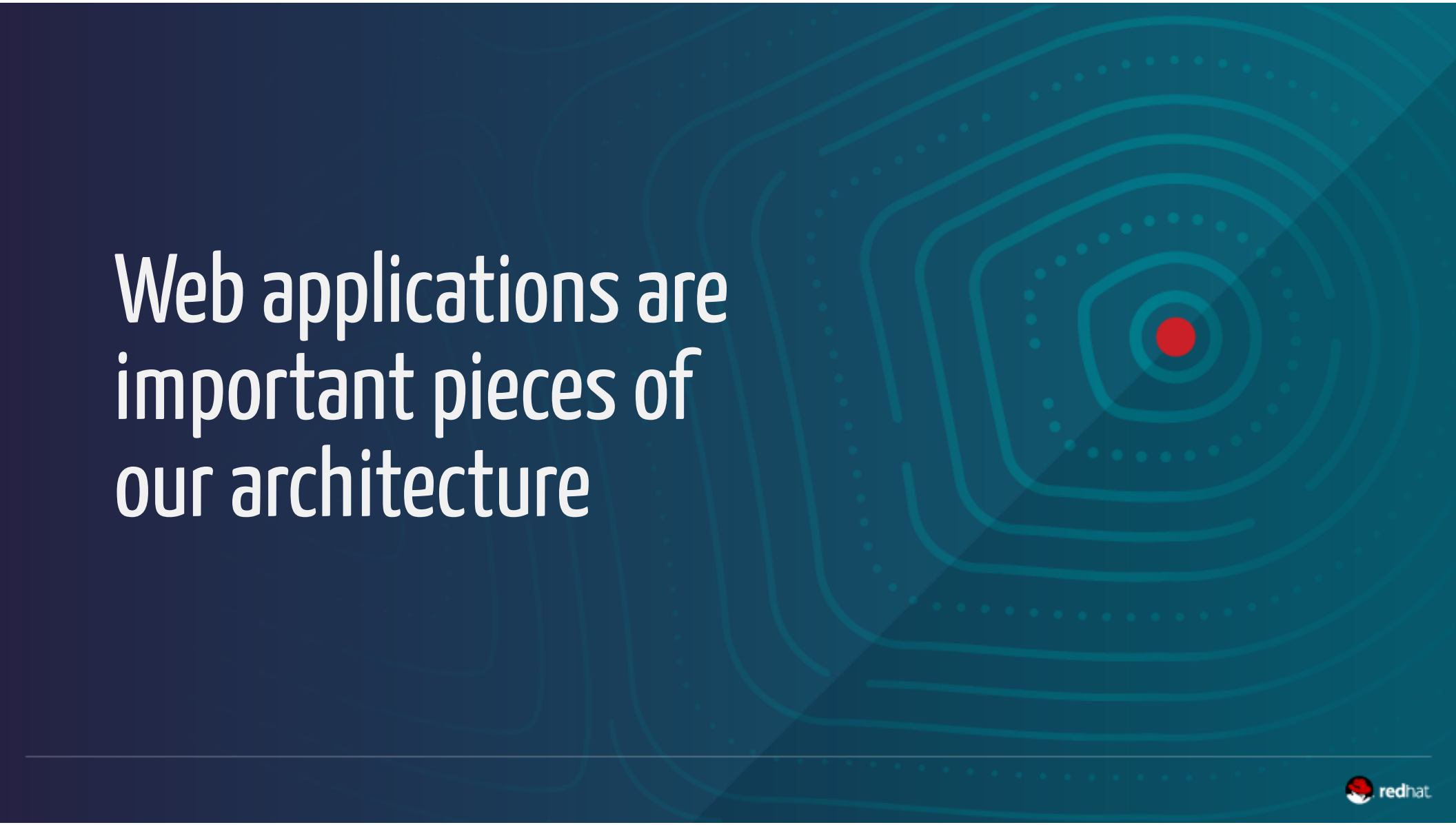
5~10 years Life-Span

Interoperability



Web development is complex

Web applications are important pieces of our architecture



Principles

Decoupled from Frameworks

Testable

Decoupled from UI

Decoupled from Database

Independent of external systems

Software architecture is trade-offs exercise

redhat

5 pillars:

Large scale application

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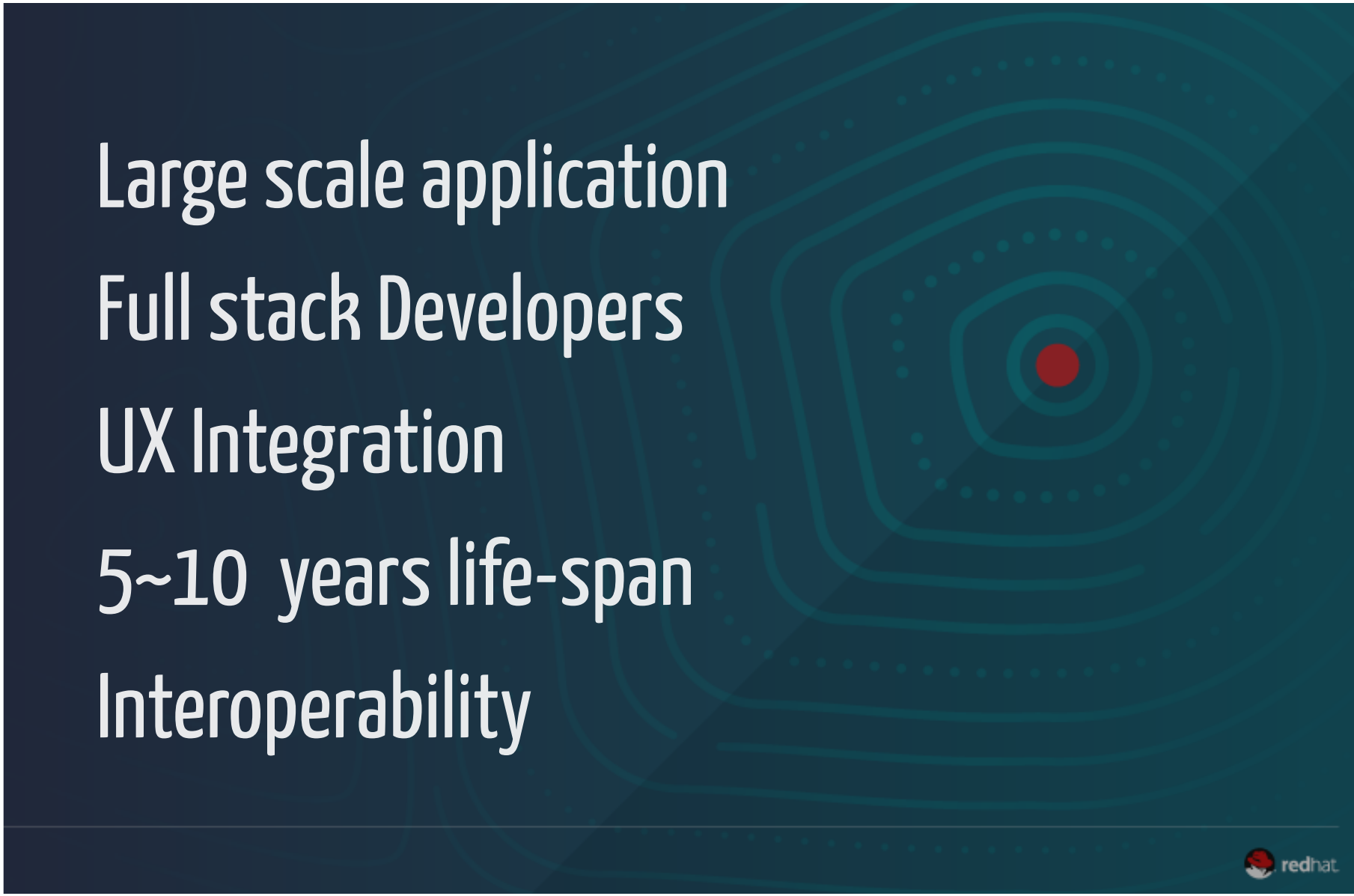
5~10 years life-span

Interoperability



Thank you.

Eder Ignatowicz
Sr. Software Engineer @ Red Hat

Alex Porcelli
Principal Software Engineer @ Red Hat