Introduction

Part 1 - The Basics

Part 2 - Core MVC 1.0 Features

Part 3 - Useful MVC 1.0 Features

Summary

Part 3
Useful MVC 1.0 Features

Security

Cross Site Request Forgery

```java
@Controller
@Path("csrf")
public class HelloController {


    @CsrfValid
    @POST
    public Response post(@FormParam("greeting") String greet {

    }
}
```

Cross Site Request Forgery

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
     <title>MVC 1.0 Hello Demo</title>
    </head>
    <body>
     <form action="csrf" method="post" accept-charset="utf-8">
            <input type="submit" value="Click here"/>
            <input type="hidden" name="${mvc.csrf.name}"
                                 value="${mvc.csrf.token}"/>
     </form>
    </body>
</html>
```

Scopes

@RedirectScoped

```java
@Named("greeting")
@RedirectScoped
public class Greeting {

    private String message;

    public void setMessage(String message) {
        this.message = message;
    }

    public void getMessage() { return message; }
}
```

@RedirectScoped

@RequestScoped

@RedirectScoped

```java
@Controller
public class HelloController {

    @Inject
    private Greeting greeting;

    @POST
    @Path("from")
    public String hello() {
        greeting.setMessage("Hello Cologne!");
        return "redirect:/to";
    }
}
```
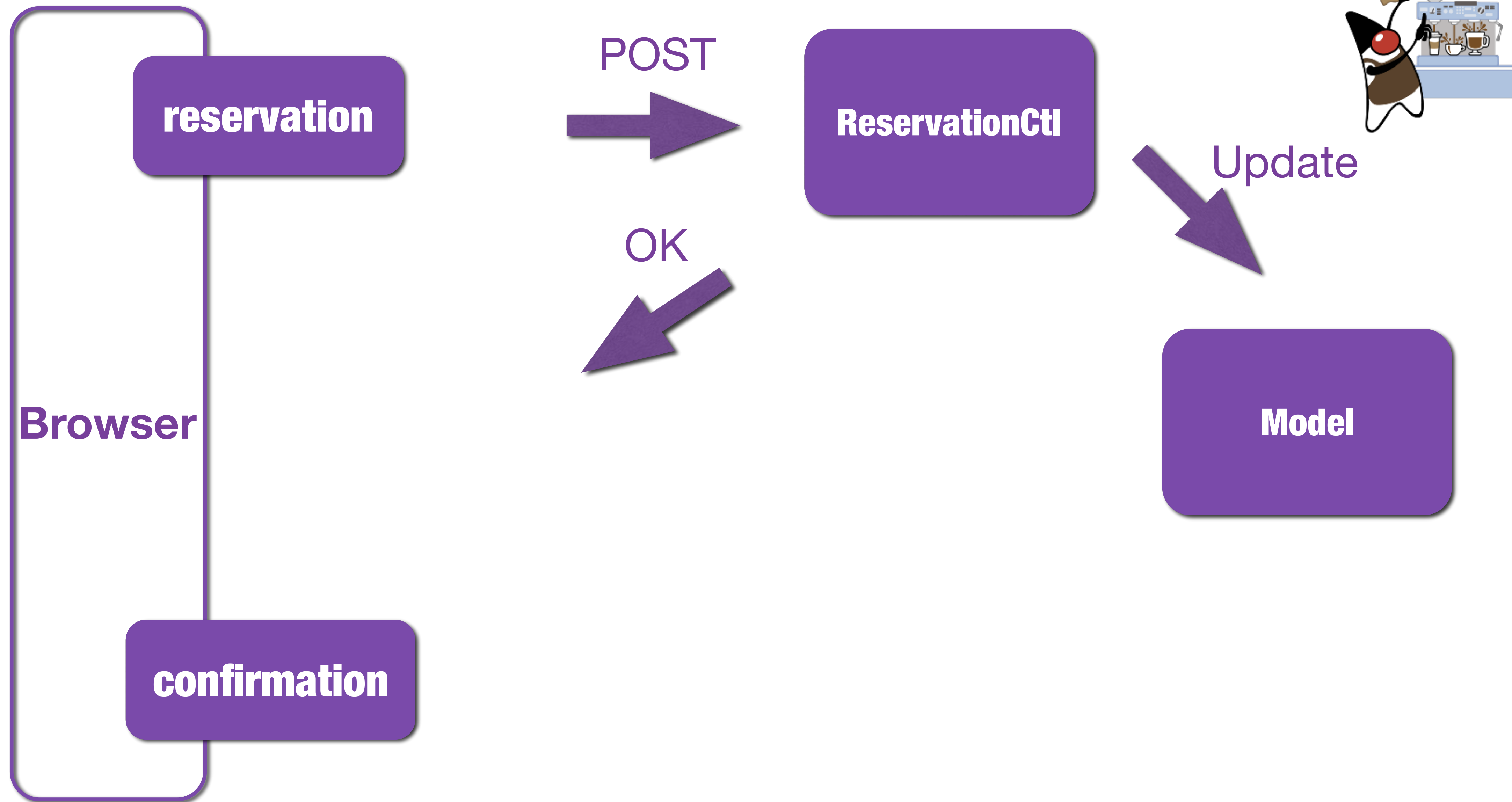
@RedirectScoped

```java
@Controller
public class HelloController {

    @Inject
    private Greeting greeting;

    @POST
    @Path("to")
    public String hello() {

        return "here.jsp";
    }
}
```
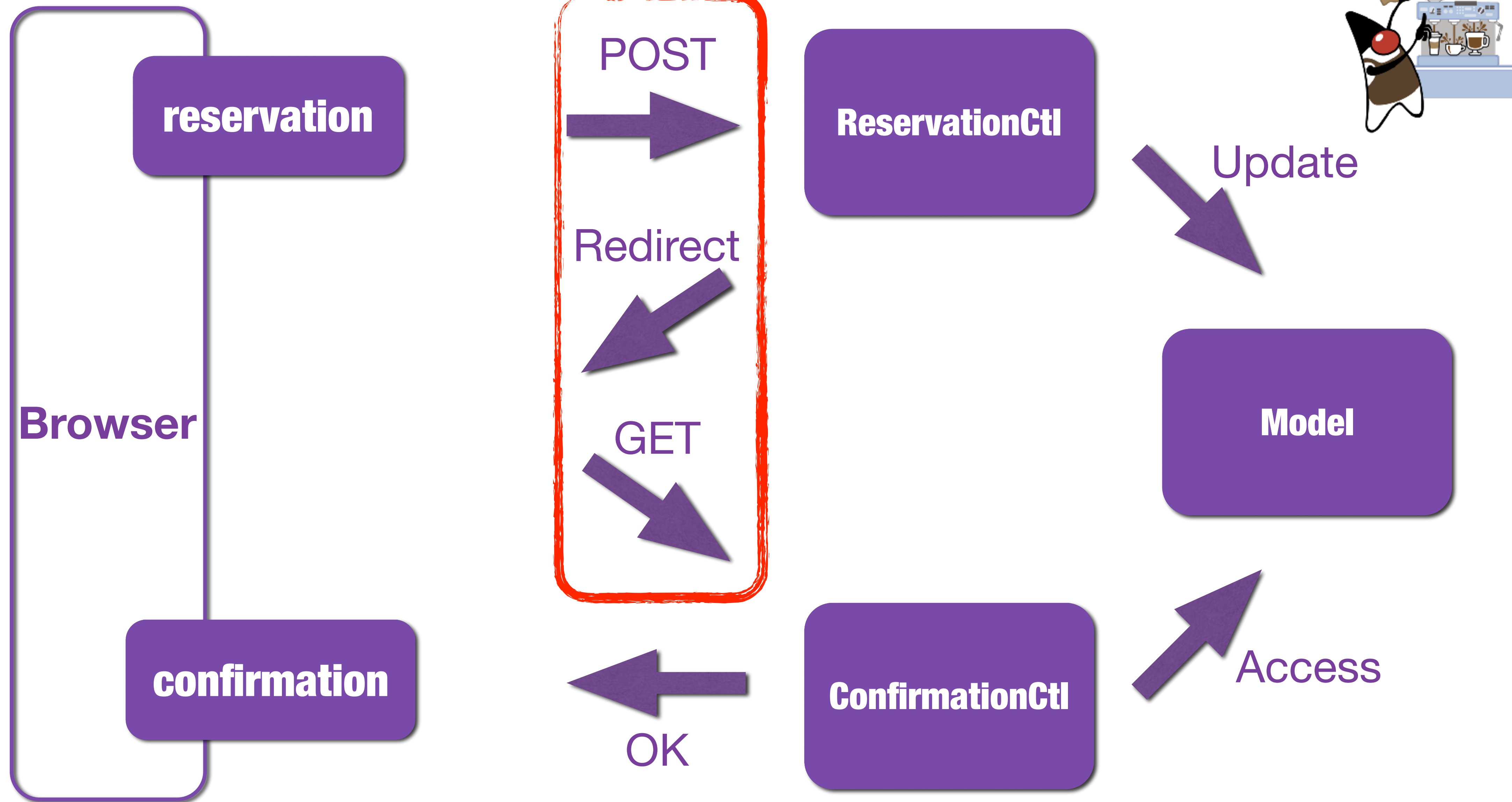
Same Bean

POST

OK

reservation

Browser

confirmation

ReservationCtl

Update

Model

reservation

Browser

confirmation

POST

Redirect

GET

ReservationCtl

Update

Model

Access

ConfirmationCtl

OK

Internationalization

Controller

```java
@Controller
@Path("hello")
public class HelloController {

   @Inject
   private MvcContext mvc;


   @GET
   public String get() {
      Locale locale = mvc.getLocale();


   }
}
```
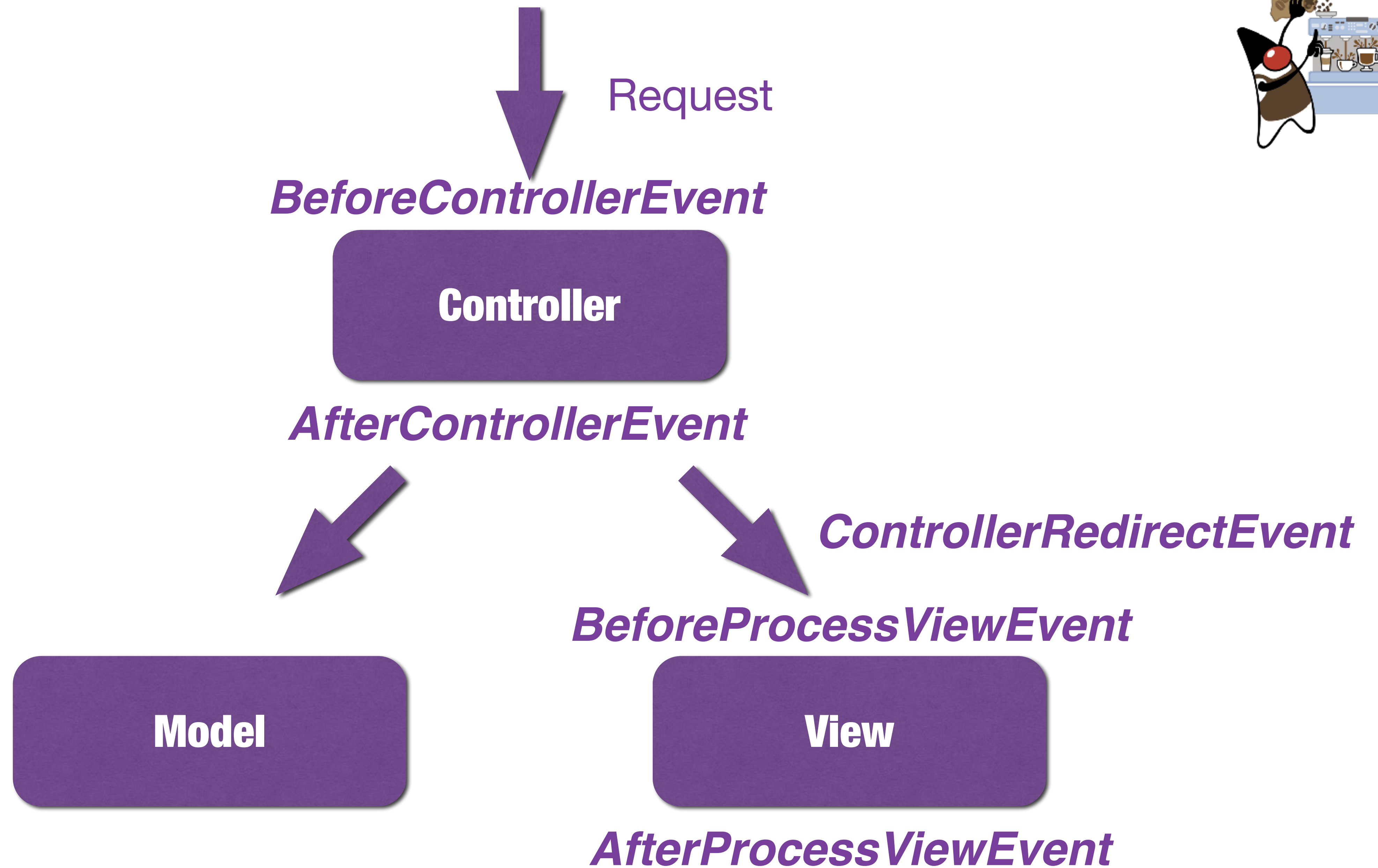
Events

Request

BeforeControllerEvent

Controller

AfterControllerEvent

ControllerRedirectEvent

BeforeProcessViewEvent

Model

View

AfterProcessViewEvent

Events Example

```java
@ApplicationScoped
public class EventObserver {

    void onBeforeController(@Observes BeforeControllerEvent e) {
        println("URI: " + e.getUriInfo().getRequestURI());
    }

    void onAfterController(@Observes AfterControllerEvent e) {
        println("Controller: " +
                        e.getResourceInfo().getResourceMethod());
    }
}
```

View Engines

Bring Your Own View Engine

ViewEngine

```java
public interface ViewEngine {

    boolean supports(String view);

    void processView(ViewEngineContext context)
        throws ViewEngineException;
}
```

View Engine Conflicts

```java
@Priority(OUTRAGEOSLY_HIGH)
@ApplicationScoped
public class FreemarkerViewEngine extends ViewEngineBase {
    …


}
```

Part 1

https://github.com/ivargrimstad/mvc-hol