

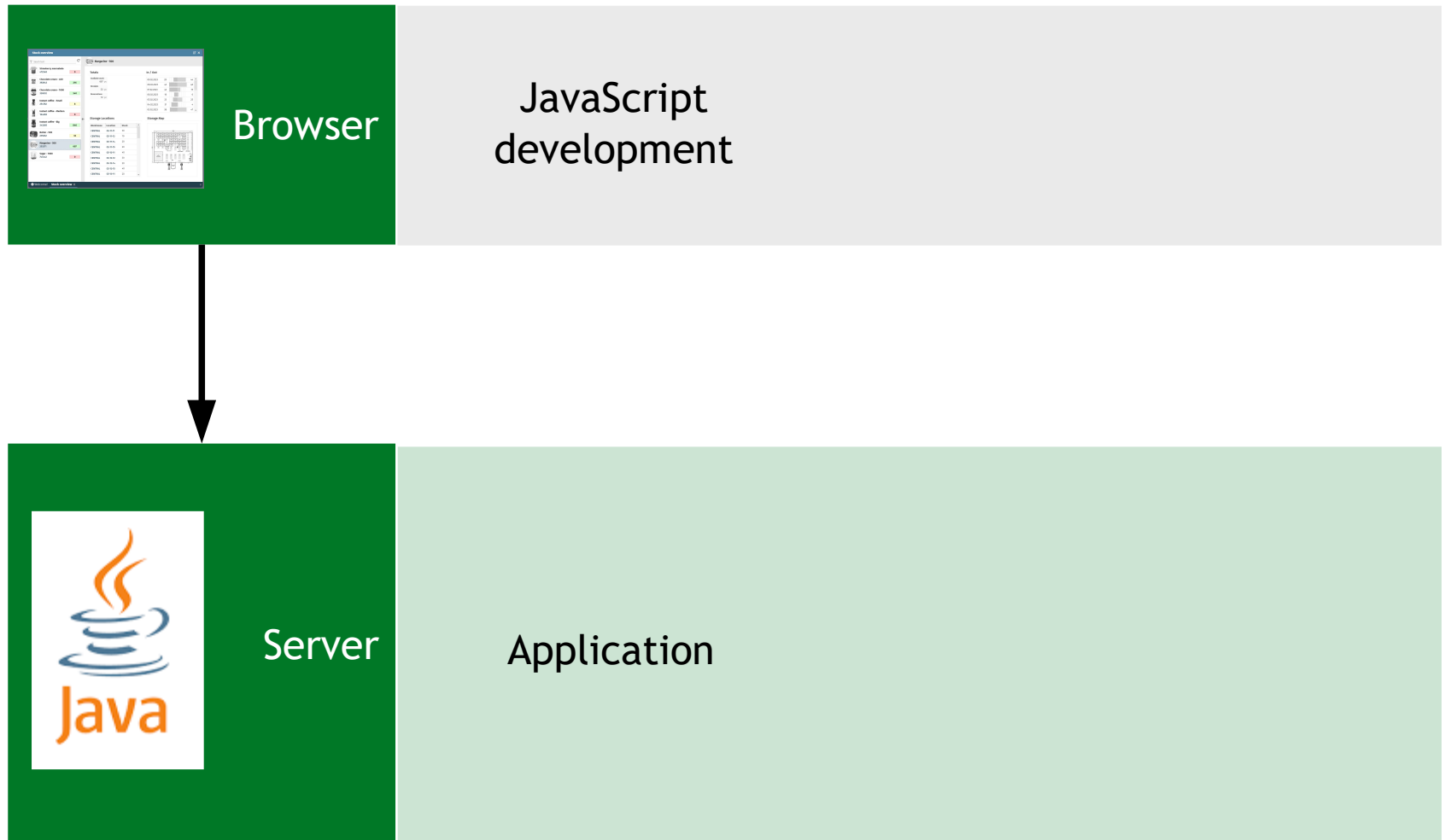


XVII. Community Meeting

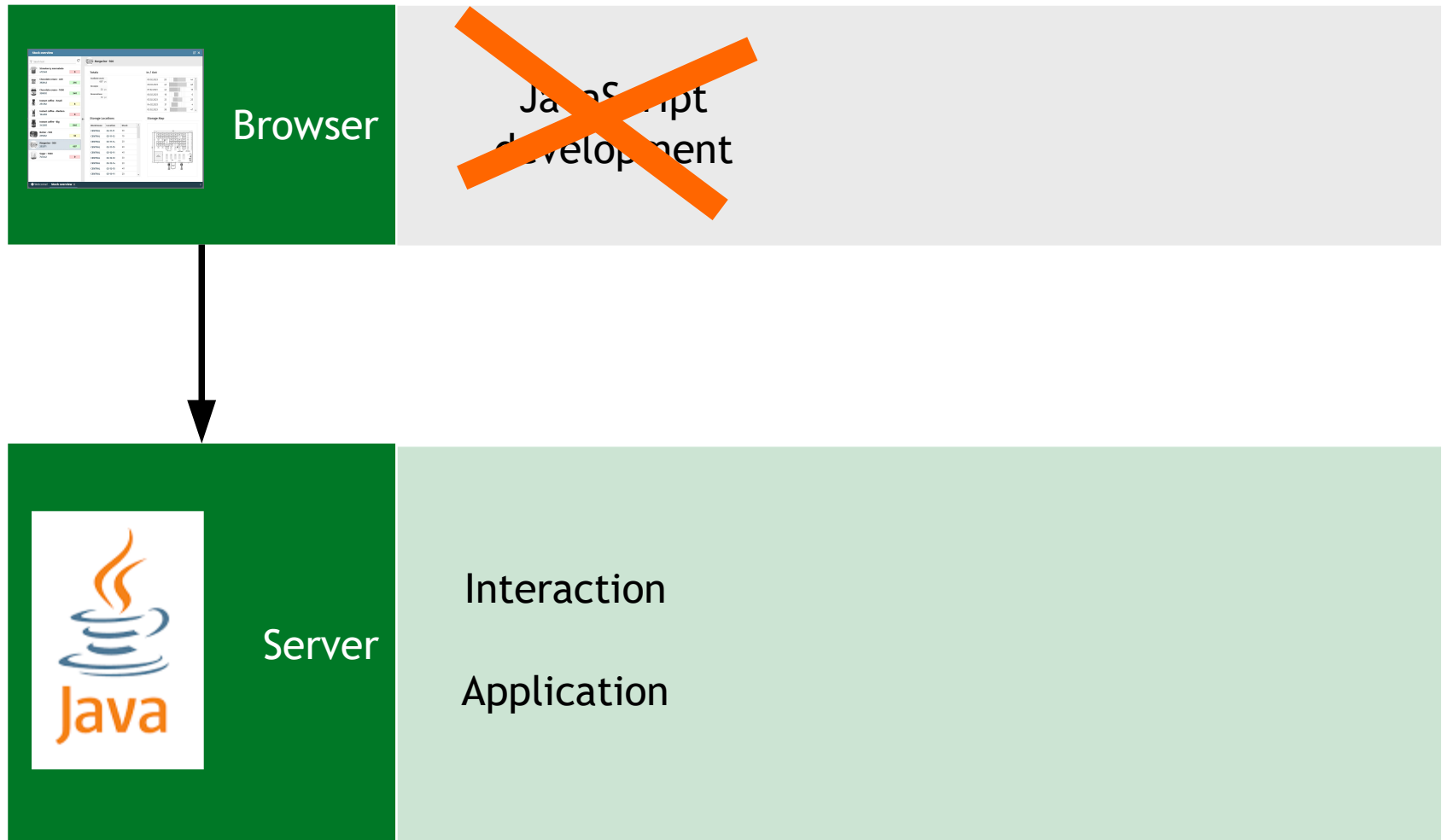
CaptainCasa

Hot Deployment

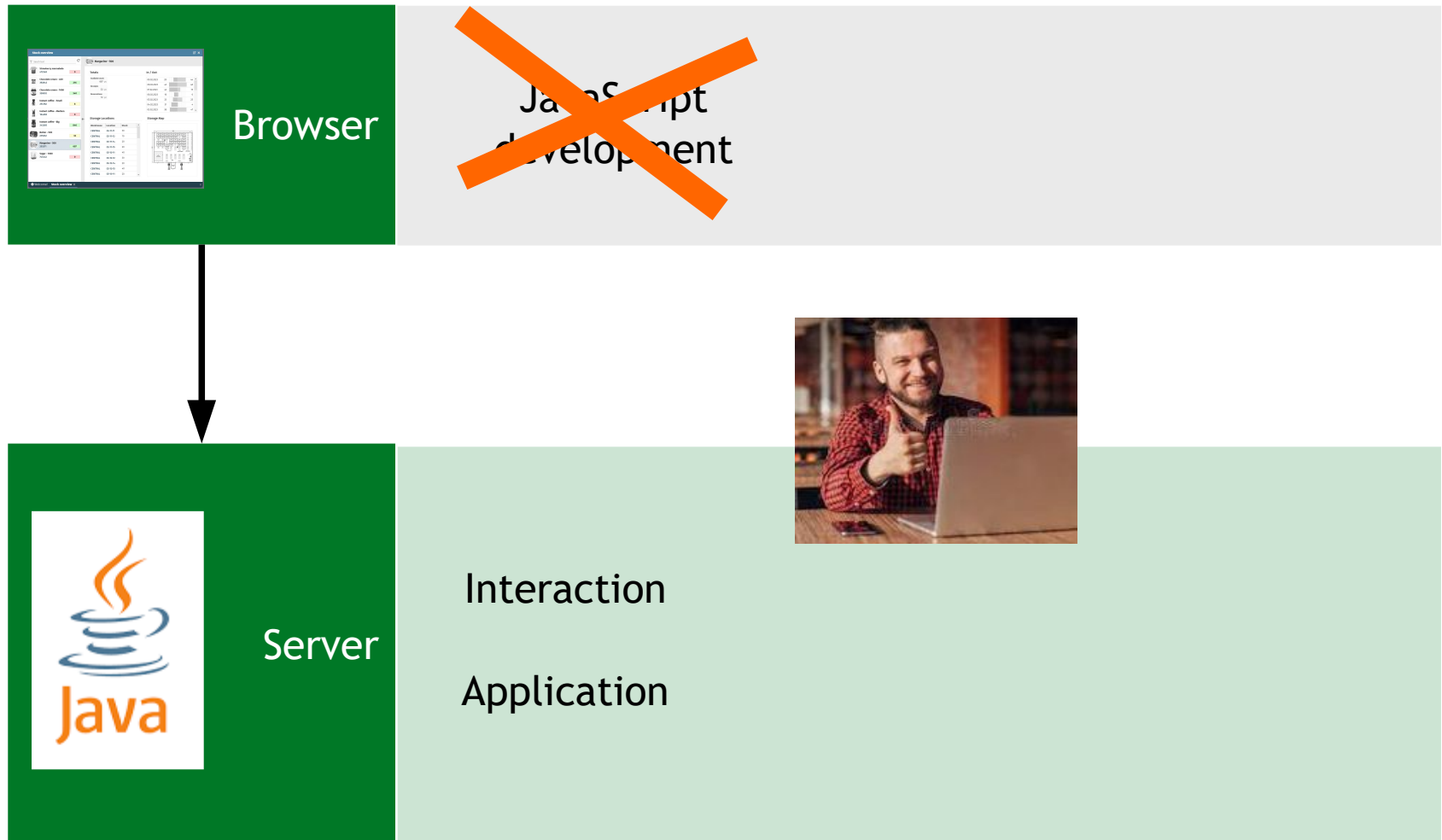
Client-side UI development



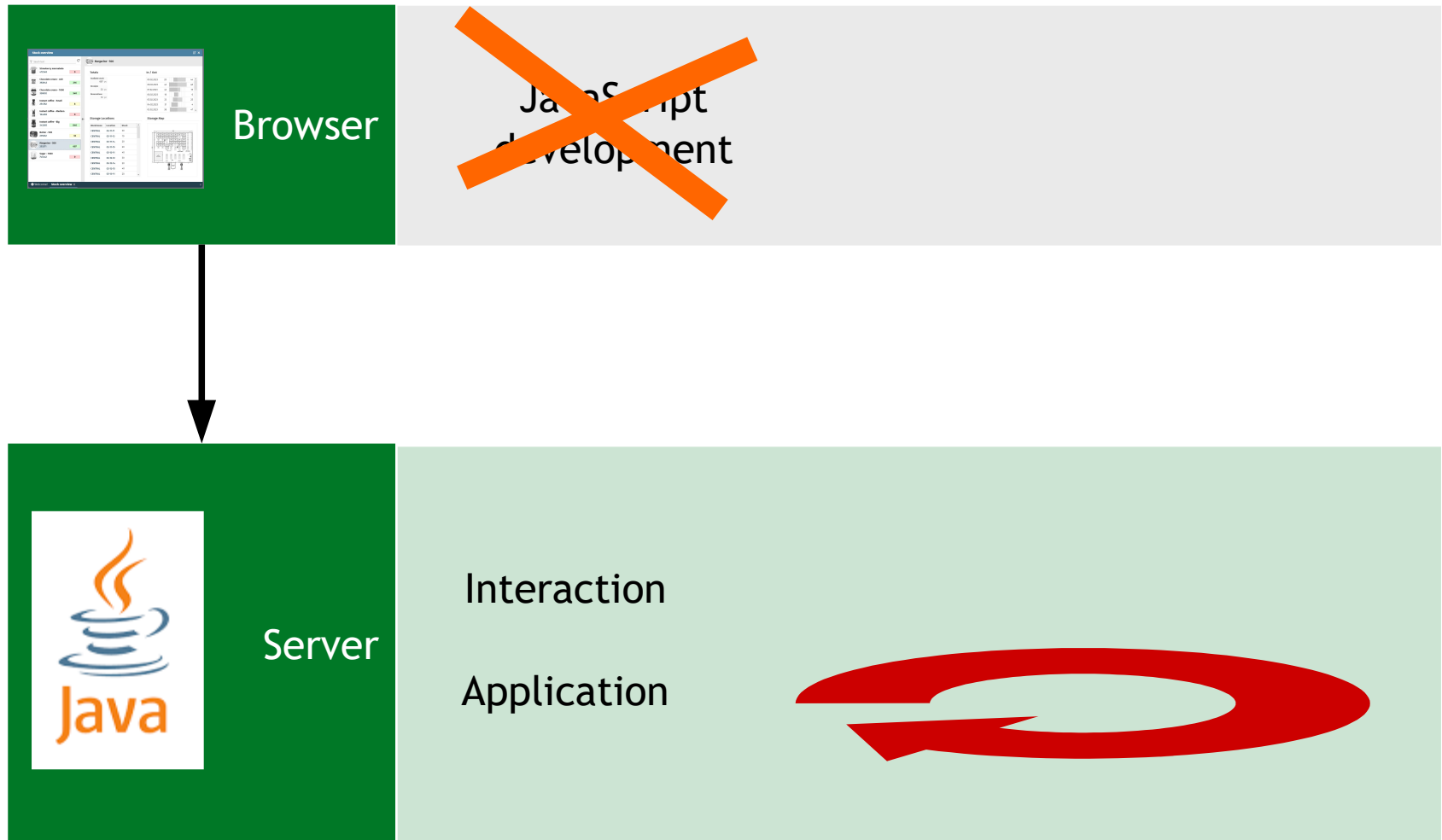
Server-side UI development



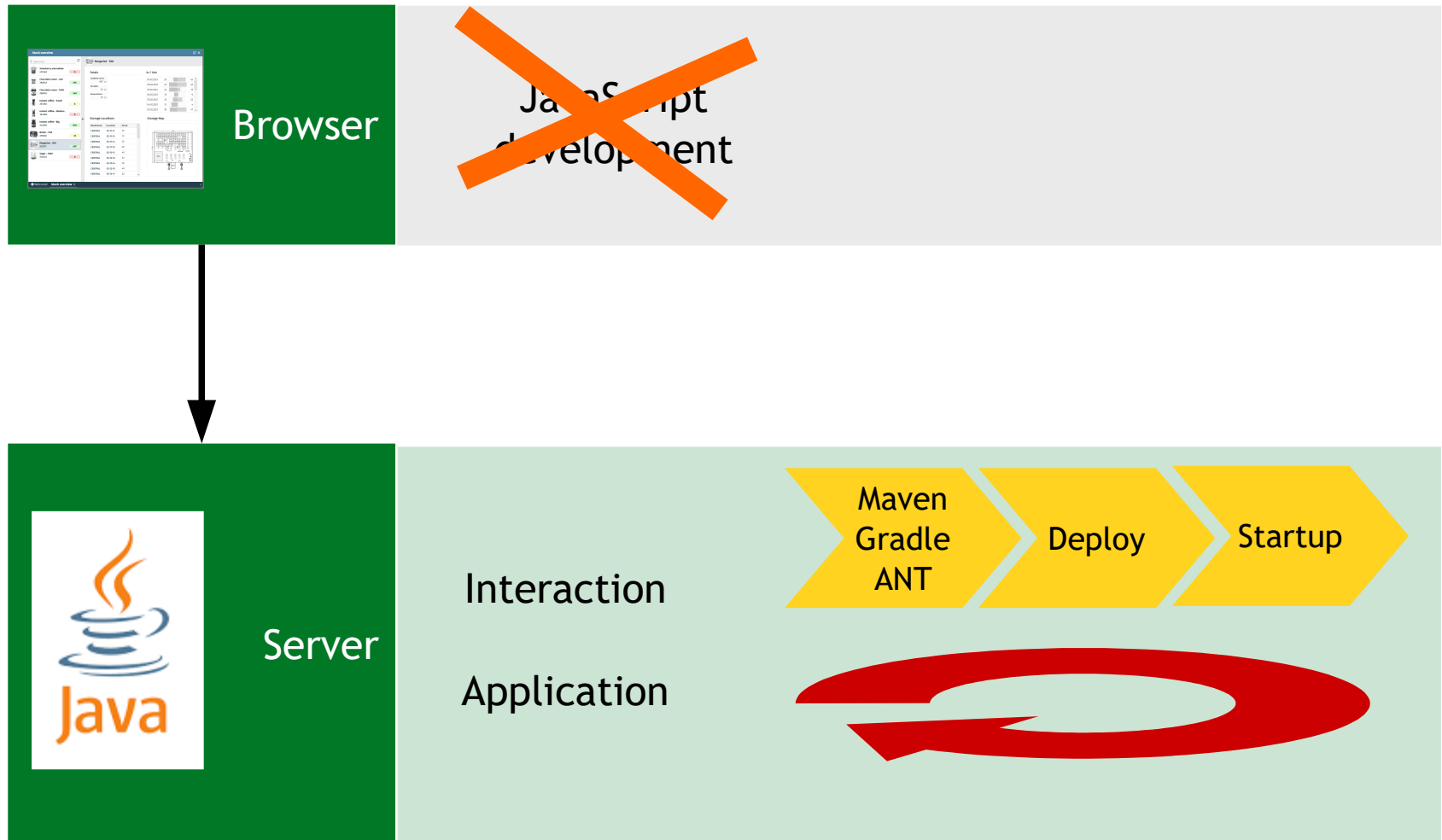
Server-side UI development



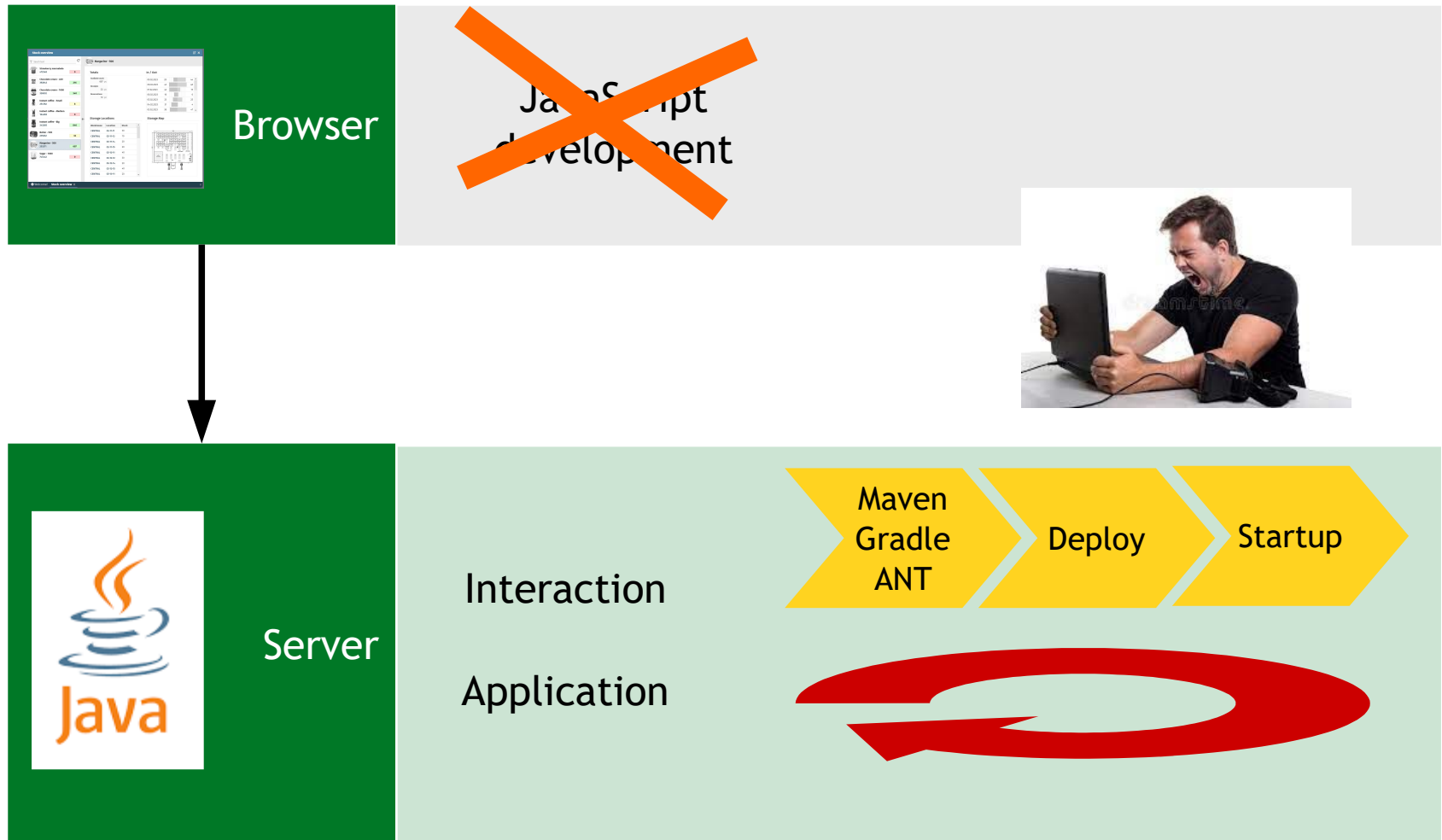
Server-side UI development



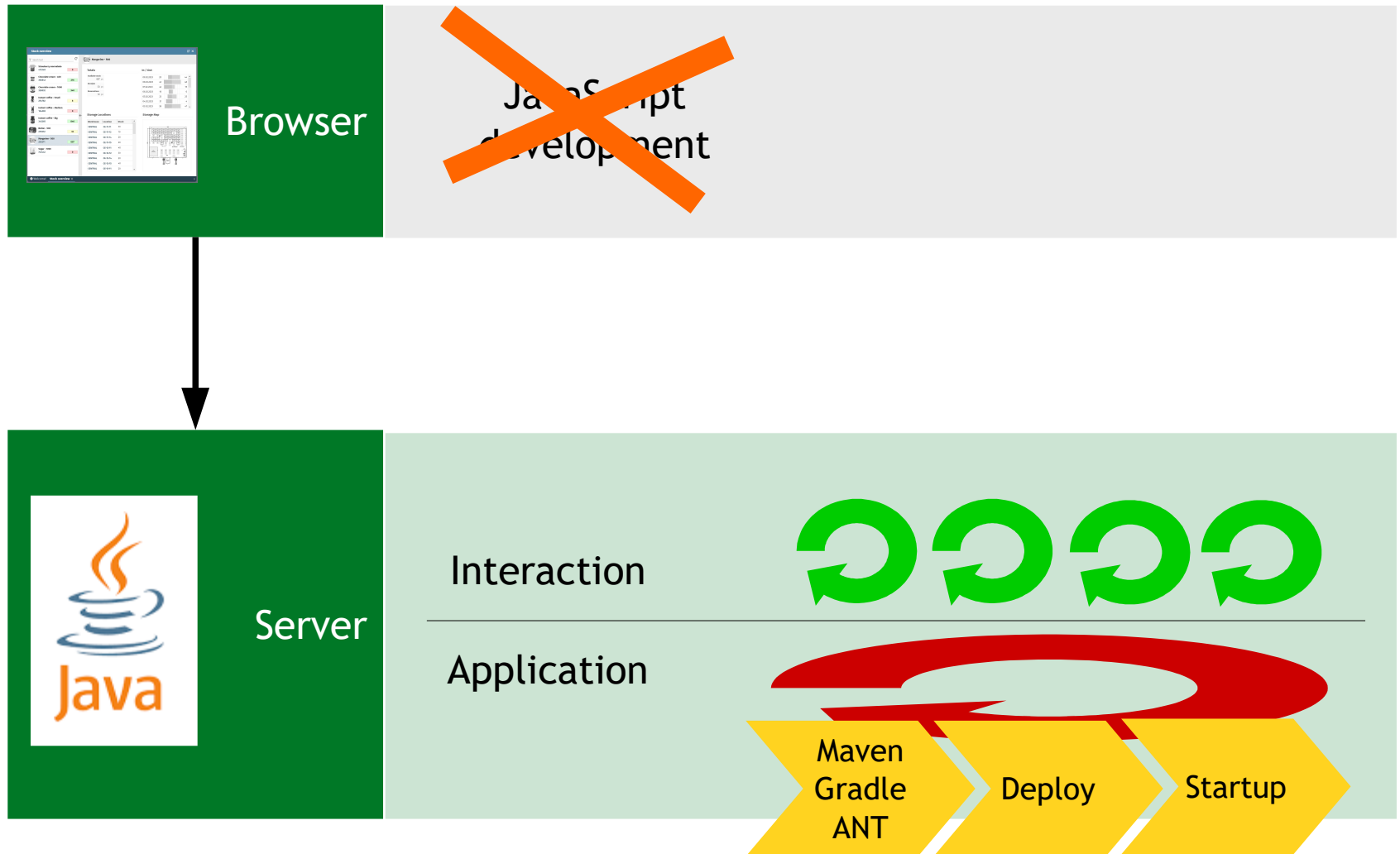
Server-side UI development



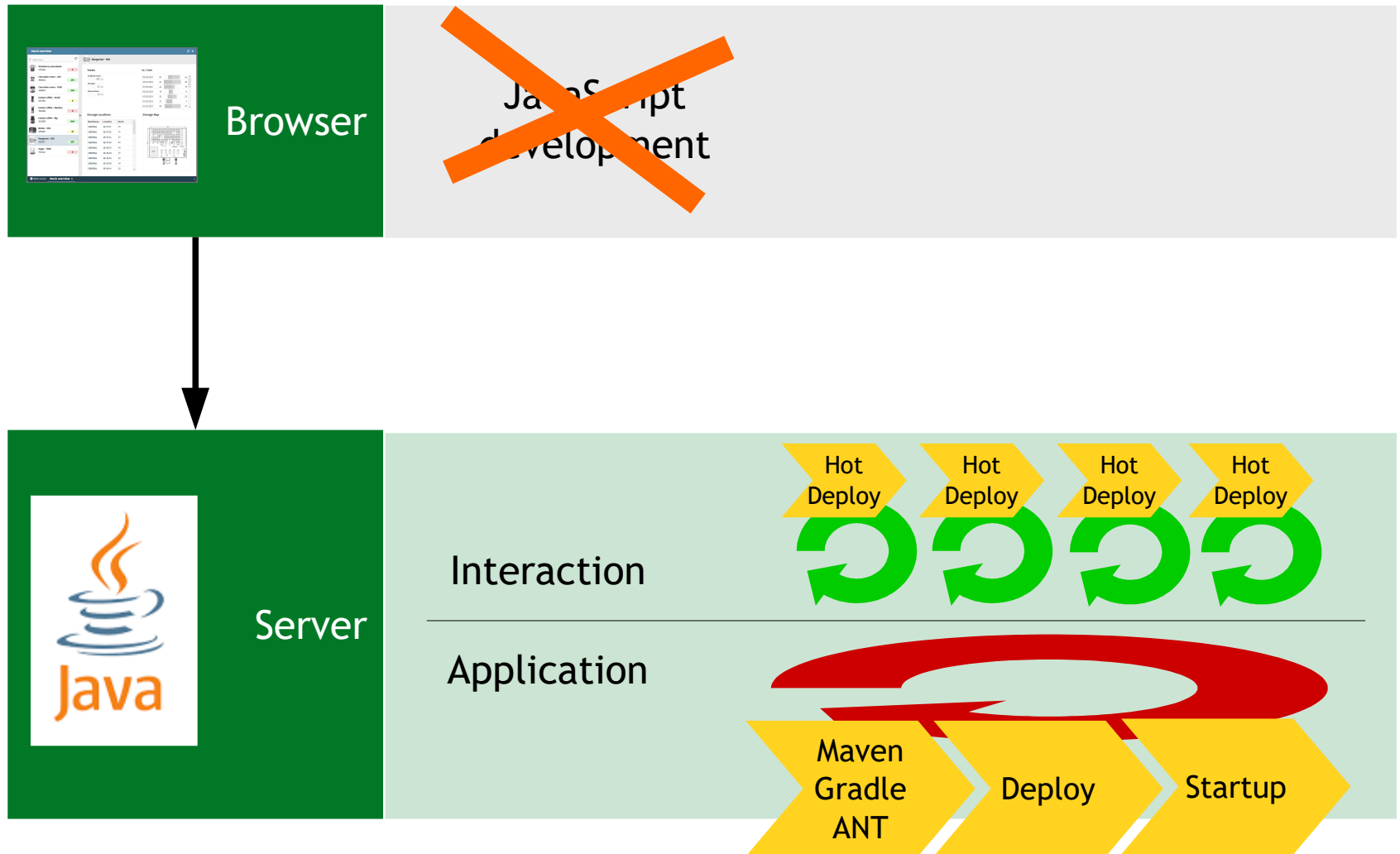
Server-side UI development



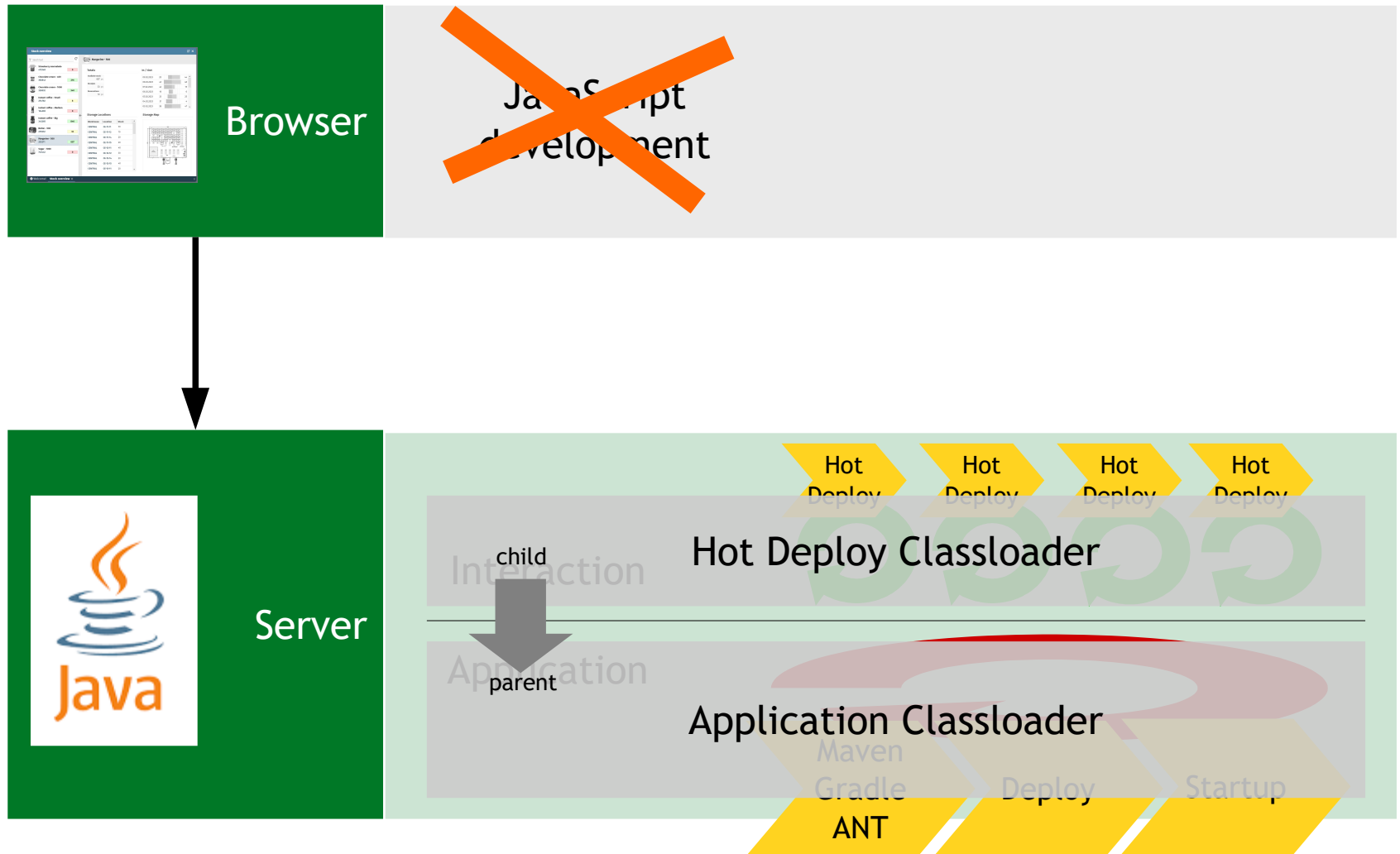
Server-side UI development



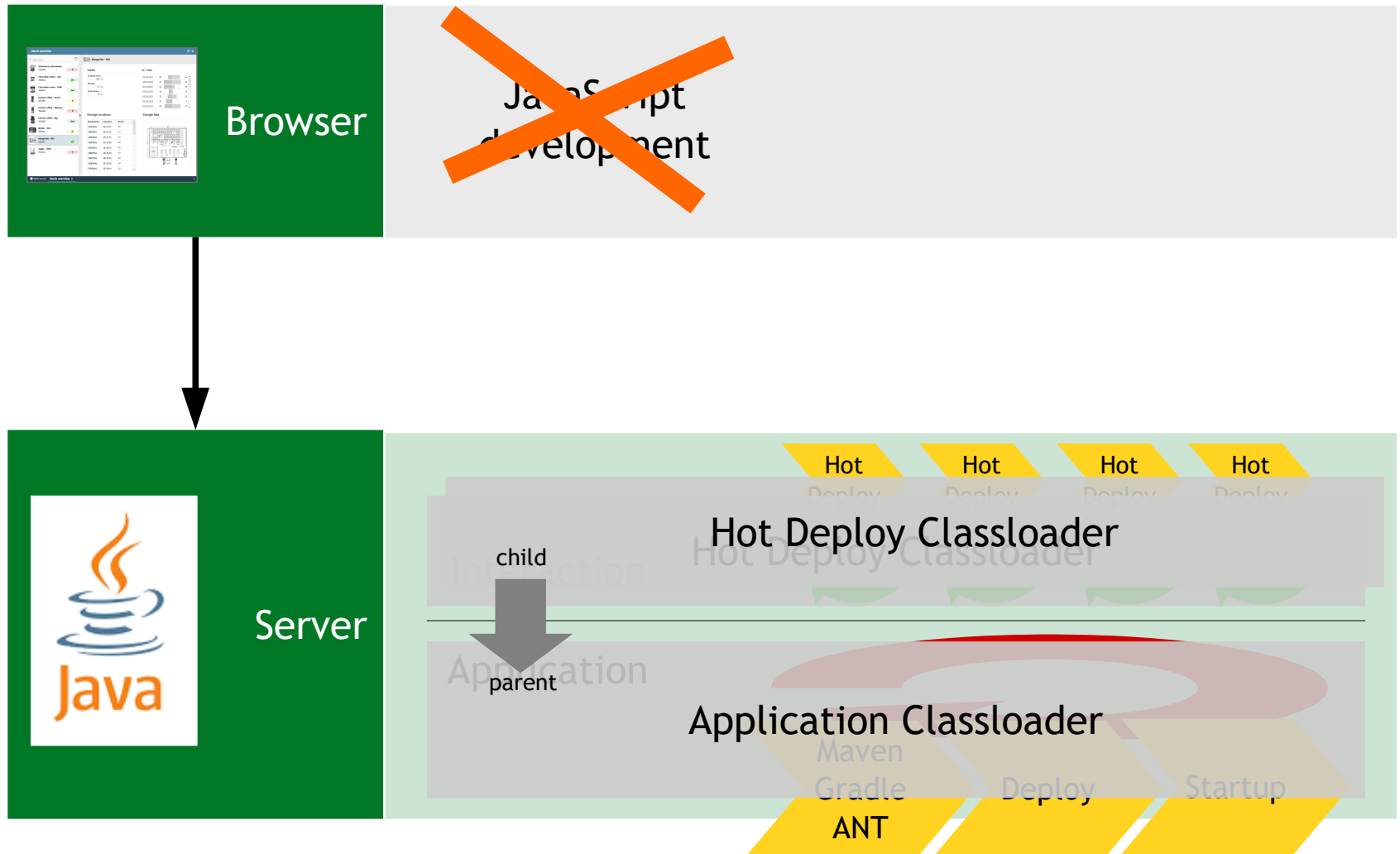
Server-side UI development



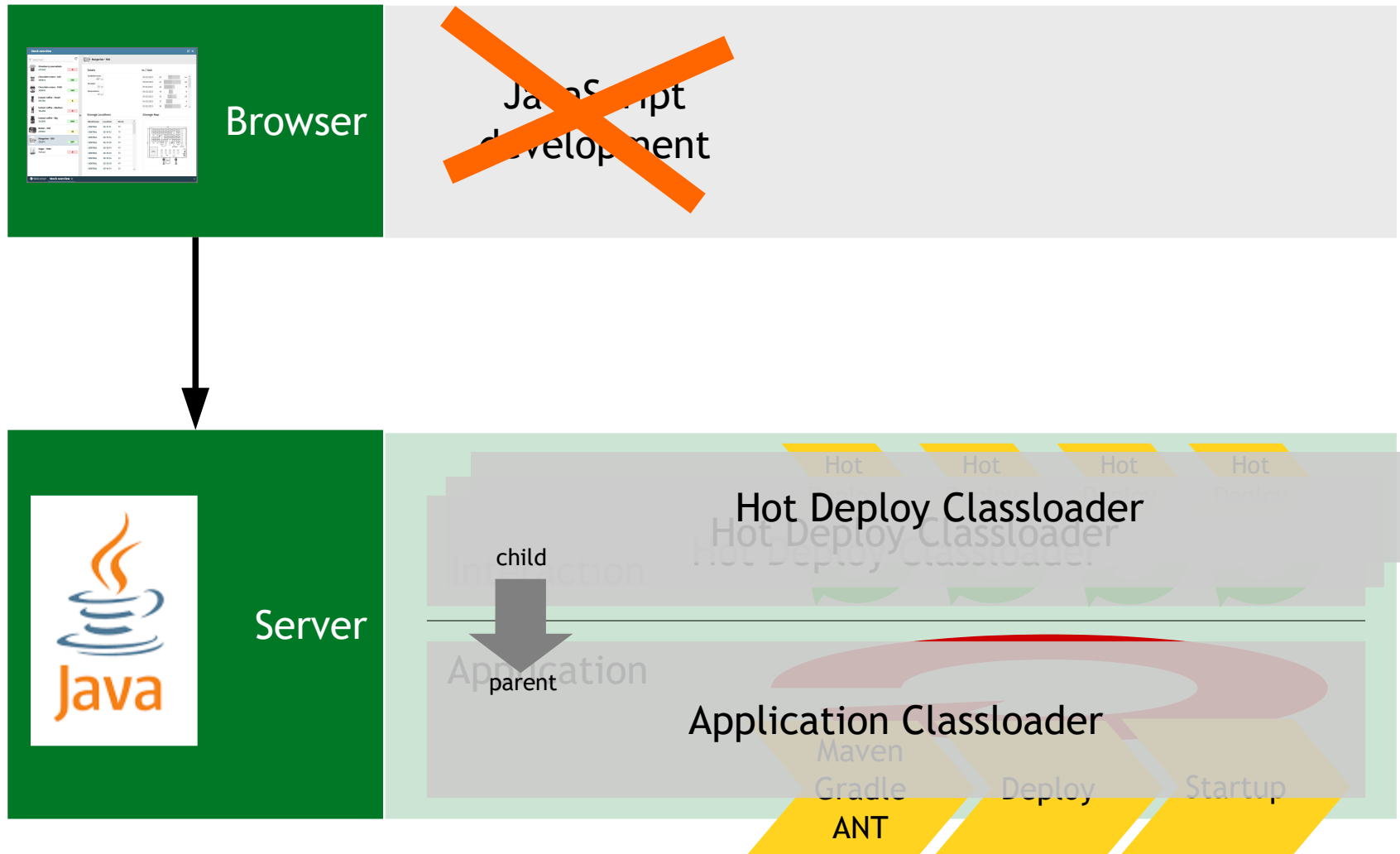
Server-side UI development



Server-side UI development



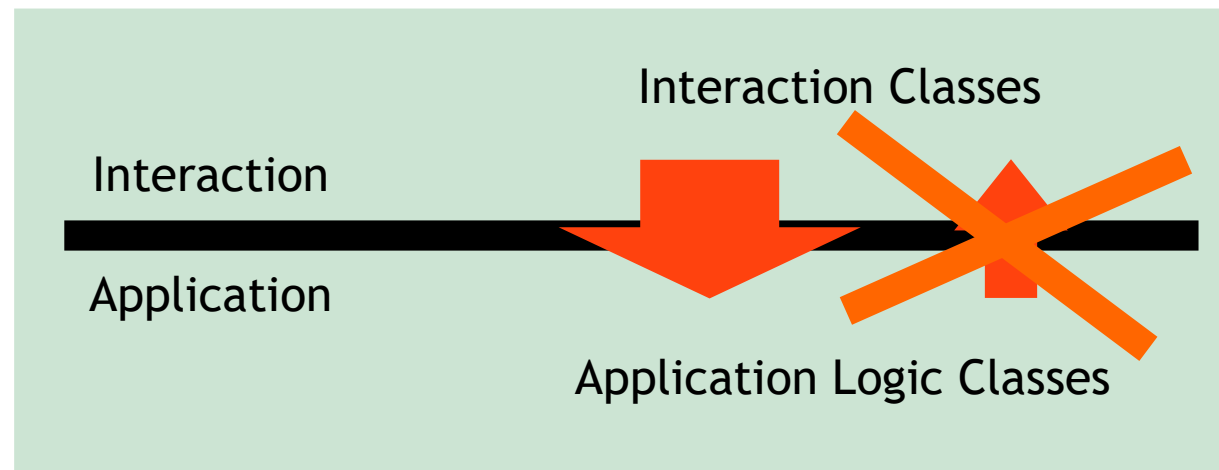
Server-side UI development



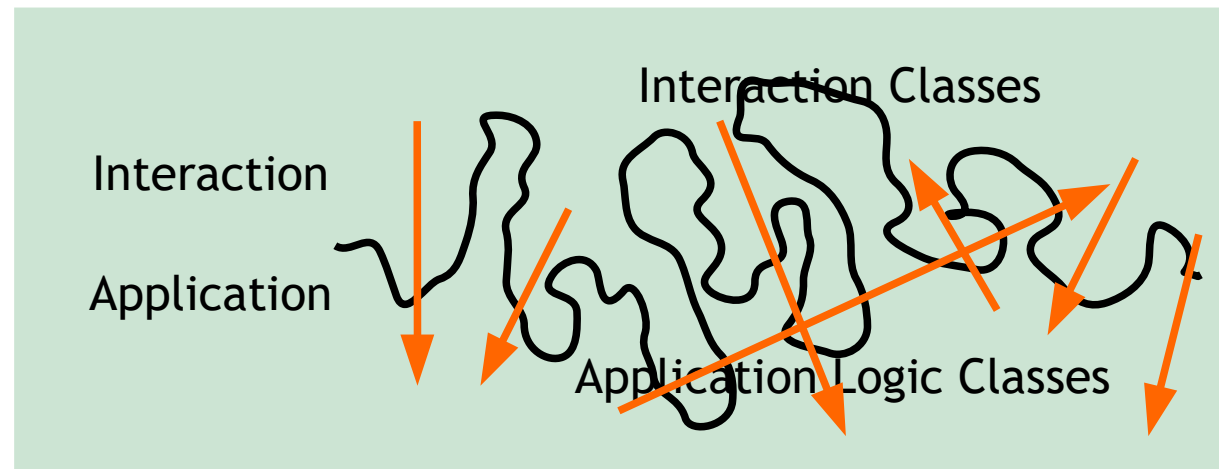
Server-side UI development



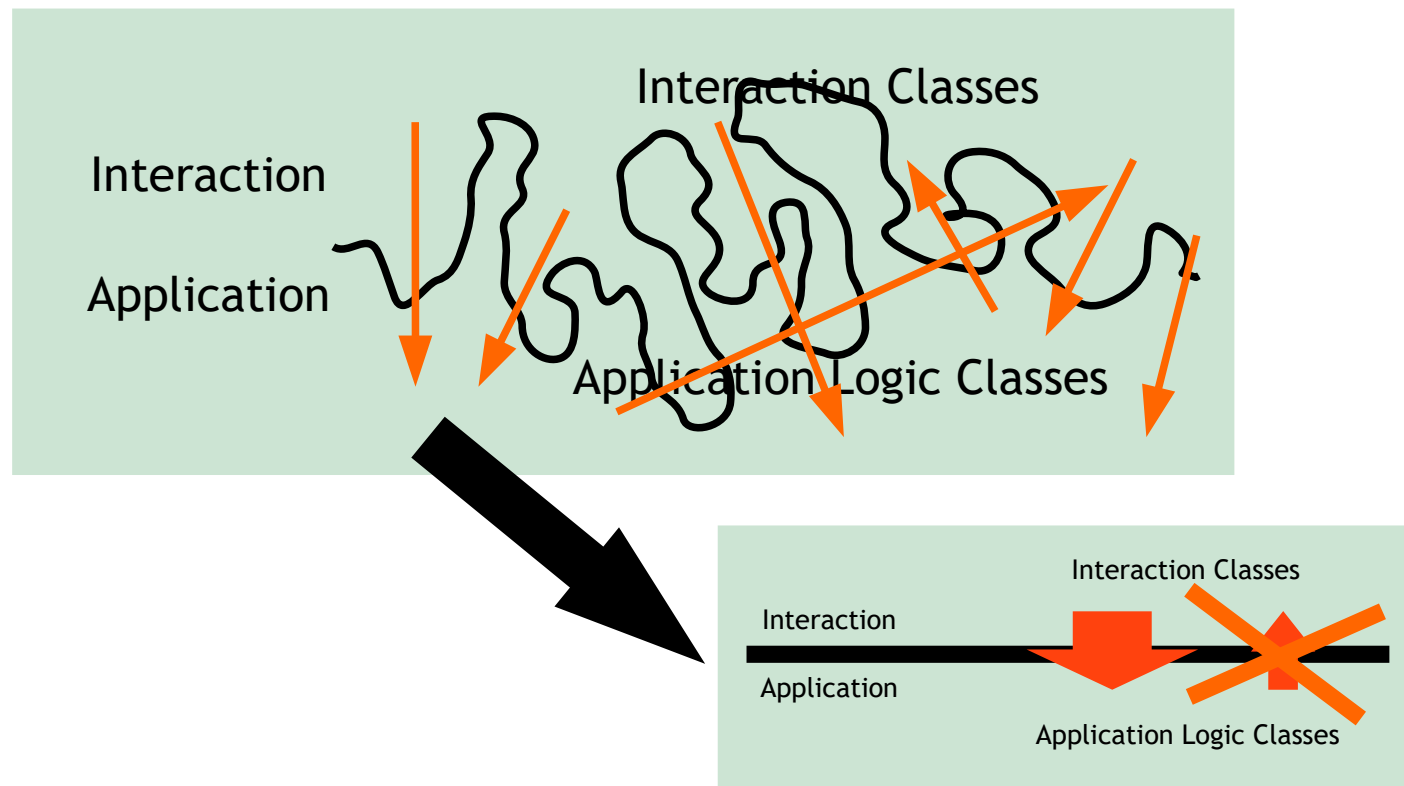
Server-side UI development



Server-side UI development



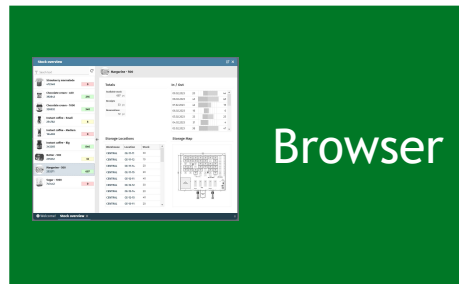
Server-side UI development



Server-side UI development



Server-side UI development



**USE
HOT DEPLOYMENT
!!!**

**FROM
BEGINNING
ON!**

Application
Maven
Gradle
ANT
Deploy

Other options - Use „Magic“

- JRebel
 - Works!
- Hotswap Agent
 - Code replacement works!
 - Resource replacement does not work
 - Requires server to run in debug mode and connecting to the IDE's hotswap management

Change in Hot Deployment

- Automatic detection of restart level
 - No restart required
 - Hot Deploy
 - Full reload
- Admin and monitoring functions

Deployment - Configuration

Design time → **Runtime**

`C:/temp/20230116/server/tomcat/webapps/pm20230116/`

1. Copying of directories

`C:/temp/pm20230116/target/pm20230116/` → `/`

During deployment the classes inside <directory>/WEB-INF/classes are split up into these ones which are hot deployed (copied to <runtime>/eclnhotdeploy/classes) and these ones which are not hot deployed (copied to <runtime>/WEB-INF/classes).

2. Copying of development artifacts

`C:/temp/pm20230116/src/main/webapp/` → `/`

`C:/temp/pm20230116/target/classes/` → `/WEB-INF/classes/`
→ `/eclnhotdeploy/classes/`

Deployment - Monitor

```
Filter
Deployment: 20230424_084357

Directory: C:\temp\p20230424\webcontentbuild to C:\temp\20230424\server\tomcat\webapps\p20230424
Directory: C:\temp\p20230424\webcontentbuild\eclnthotdeploy to C:\temp\20230424\server\tomcat\webapps\p20230424\eclnthotde
Directory: C:\temp\p20230424\webcontentbuild\eclnthotdeploy\classes to C:\temp\20230424\server\tomcat\webapps\p20230424\eclnthotde
Directory: C:\temp\p20230424\webcontentbuild\WEB-INF to C:\temp\20230424\server\tomcat\webapps\p20230424\WEB-INF
Directory: C:\temp\p20230424\webcontentbuild\WEB-INF\classes to C:\temp\20230424\server\tomcat\webapps\p20230424\WEB-INF\c
Directory: C:\temp\p20230424\webcontentbuild\WEB-INF\classes to C:\temp\20230424\server\tomcat\webapps\p20230424\eclnthotd
Directory: C:\temp\p20230424\webcontentbuild\WEB-INF\classes\managedbeans to C:\temp\20230424\server\tomcat\webapps\p20230
Copied file: C:\temp\p20230424\webcontentbuild\WEB-INF\classes\managedbeans\HelloWorldUI$IListener.class to C:\temp\202304
Copied file: C:\temp\p20230424\webcontentbuild\WEB-INF\classes\managedbeans\HelloWorldUI.class to C:\temp\20230424\server\
Directory: C:\temp\p20230424\webcontentcc to C:\temp\20230424\server\tomcat\webapps\p20230424
Directory: C:\temp\p20230424\webcontentcc\ecIntjsfserver to C:\temp\20230424\server\tomcat\webapps\p20230424\ecIntjsfserve
Directory: C:\temp\p20230424\webcontentcc\ecIntjsfserver\includes to C:\temp\20230424\server\tomcat\webapps\p20230424\ecln
Directory: C:\temp\p20230424\webcontentcc\WEB-INF to C:\temp\20230424\server\tomcat\webapps\p20230424\WEB-INF
Directory: C:\temp\p20230424\webcontentcc\WEB-INF\lib to C:\temp\20230424\server\tomcat\webapps\p20230424\WEB-INF\lib
Directory: C:\temp\p20230424\webcontentcc\WEB-INF\classes to C:\temp\20230424\server\tomcat\webapps\p20230424\eclnthotdepl
Directory: C:\temp\p20230424\webcontent to C:\temp\20230424\server\tomcat\webapps\p20230424
Directory: C:\temp\p20230424\webcontent\ecIntjsfserver to C:\temp\20230424\server\tomcat\webapps\p20230424\ecIntjsfserver
Directory: C:\temp\p20230424\webcontent\ecIntjsfserver\config to C:\temp\20230424\server\tomcat\webapps\p20230424\ecIntjsf
Copied file: C:\temp\p20230424\webcontent\ecIntjsfserver\config\hotdeploy.xml to C:\temp\20230424\server\tomcat\webapps\p2
Directory: C:\temp\p20230424\webcontent\ecIntjsfserver\config\ccworkplace to C:\temp\20230424\server\tomcat\webapps\p20230
Directory: C:\temp\p20230424\webcontent\ecIntjsfserver\config\ccworkplace\functiontrees to C:\temp\20230424\server\tomcat\
Directory: C:\temp\p20230424\webcontent\ecIntjsfserver\config\ccworkplace\perspectives to C:\temp\20230424\server\tomcat\w
Directory: C:\temp\p20230424\webcontent\ecIntjsfserver\config\ccworkplace\userinfo to C:\temp\20230424\server\tomcat\webap
Directory: C:\temp\p20230424\webcontent\ecIntjsfserver\config\macros to C:\temp\20230424\server\tomcat\webapps\p20230424\e
Directory: C:\temp\p20230424\webcontent\ecIntjsfserver\styles to C:\temp\20230424\server\tomcat\webapps\p20230424\ecIntjsf
Directory: C:\temp\p20230424\webcontent\images to C:\temp\20230424\server\tomcat\webapps\p20230424\images
Directory: C:\temp\p20230424\webcontent\META-INF to C:\temp\20230424\server\tomcat\webapps\p20230424\META-INF
Directory: C:\temp\p20230424\webcontent\WEB-INF to C:\temp\20230424\server\tomcat\webapps\p20230424\WEB-INF
Directory: C:\temp\p20230424\webcontent\WEB-INF\lib to C:\temp\20230424\server\tomcat\webapps\p20230424\WEB-INF\lib
Directory: C:\temp\p20230424\webcontent\WEB-INF\classes to C:\temp\20230424\server\tomcat\webapps\p20230424\eclnthotdeploy
Directory: C:\temp\p20230424\webcontentbuild\WEB-INF\classes to C:\temp\20230424\server\tomcat\webapps\p20230424\WEB-INF\c
Directory: C:\temp\p20230424\webcontentbuild\WEB-INF\classes to C:\temp\20230424\server\tomcat\webapps\p20230424\eclnthotd
```

Embedding own functions into Deploy Process

```
public interface IEmbeddedFunctions
{
    public void beforeClean(ProjectInfo pi);
    public void afterClean(ProjectInfo pi);
    public void beforeDeployCopy(ProjectInfo pi, boolean asHotDeploy);
    public void afterDeployCopy(ProjectInfo pi, boolean asHotDeploy);
}
```

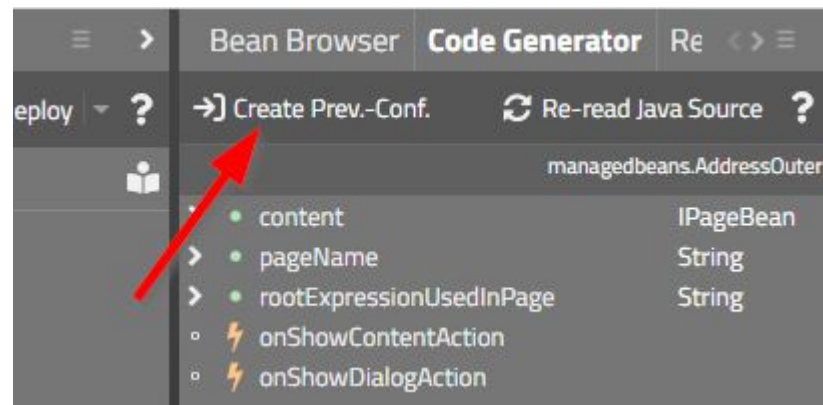
```
<project ...>
    ...
    <embeddedfunctions class="...class name of extension..."
                       errorifnotavailable="true"/>
    ...
</project>
```


Development Issues

Embed Tools into Maven Build

- Only few are using it
 - ...but it really is a super-nice function!

Preview Configuration Class

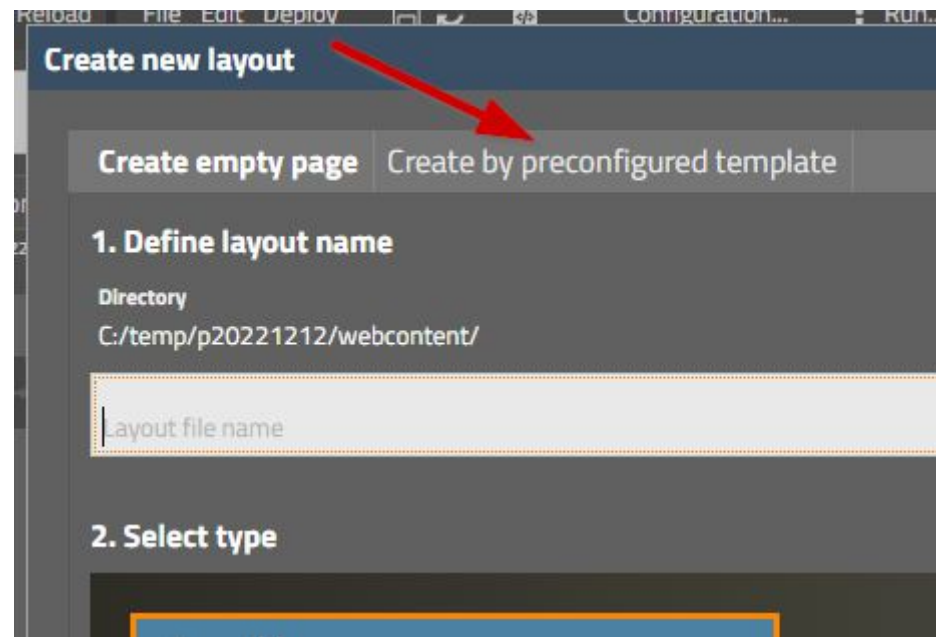


Preview Configuration Class

```
package managedbeans;
public class XyzUI extends PageBean
{
    public XyzUI()
    {
        if (HttpSessionAccess.checkIfInLayoutEditorPreview())
        {
            ...
            ... prepare some preview context ...
            ...
            prepare(...);
        }
    }
    public void prepare(...)
    {
        ...
    }
}
```

```
package managedbeans.preview;
public class XyzUI_PREV implements IPreviewInstanceConfigurator<XyzUI>
{
    @Override
    public void configureForPreview(String beanName, XyzUI bean)
    {
        bean.prepare(...);
    }
}
```

Templates



Refactoring Tool

