Bevor wir anfangen, Eclipse runterladen und die JEE Version verwenden.

Vorbereitung

1. Download PrimeFaces

    http://search.maven.org/remotecontent?filepath=org/primefaces/primefaces/6.1/primefaces-6.1.jar

2. Download JBoss Tools

    Help / Eclipse Marketplace / JBoss tools / Install / Confirm

3. Window / Open Perspective / Other / Java EE (default)

4. Window / Show View / Servers
   Click link to create new server / WildFly 10.x / Finish

    Wenn es WildFly 10.x noch nicht gibt: Ordner Red Hat JBoss Middleware / Wildfly 10.x / Download and install runtime / 10.1 / Finish

Projekt erstellen

1. New Dynamic Web Project / Projektnamen eingeben /
2. Target Runtime / Wildfly 10.x Runtime
3. Configuration / Modify

    Folgendes anhaken:

    ✓ Dynamic Web Module
    ✓ Java
    ✓ JavaServer Faces
    ✓ JPA

    OK

4. Next / Next / Next
5. @Web Module: Generate web.xml anhaken
6. Next
7. @JSF Capabilities: URL Mapping Patterns das vorhandene entfernen, Add / *.xhtml
8. Finish

PrimeFaces

1. Rechtsklick auf das neue Projekt / Properties
2. @Deployment assembly / Add / Archives from File System / Add / primefaces-6.1.jar
3. @Java Build Path / Libraries / Add External JARs / primefaces-6.1.jar
4. Apply and Close

web.xml

1.   <welcome-file>index.xhtml</welcome-file> hinzufügen

Index.xhtml hinzufügen (welcome page)

1. Zu WebContent navigieren
2. Rechtsklick / New / XHTML File / index.xhtml

```
    <!DOCTYPE html>
<html xmlns="http://www.w3c.org/1999/xhtml"
    xmlns:h="http://xmlns.jcp.org/jsf/html"
    xmlns:f="http://java.sun.com/jsf/core"
    xmlns:p="http://primefaces.org/ui">
<h:head></h:head>
<h:body>


</h:body>
</html>
```

Im body ist dann Platz für was auch immer ihr auf eurer Welcome Page haben wollt.

Um das ganze zu testen einfach Run As / Run on Server

Dann kann man es unter http://localhost:8080/$PROJEKTNAME/ sehen

Line Graph Beispiel

Hier als Beispiel mein Line Graph

In WebContent/line.xhtml

```
    <!DOCTYPE html>
<html xmlns="http://www.w3c.org/1999/xhtml"
    xmlns:h="http://xmlns.jcp.org/jsf/html"
    xmlns:f="http://java.sun.com/jsf/core"
    xmlns:p="http://primefaces.org/ui">
<h:head></h:head>
<h:body>
    <p:chart type="line" model="#{chartView.lineModel1}" style="height:300px;"/>

</h:body>
</html>
```

Und unter Java Resources/src chartView.java

```java
import javax.annotation.PostConstruct;

import java.awt.Point;
import java.io.Serializable;
import javax.faces.bean.ManagedBean;
import org.primefaces.model.chart.Axis;
import org.primefaces.model.chart.AxisType;
import org.primefaces.model.chart.LineChartModel;
import org.primefaces.model.chart.LineChartSeries;

@ManagedBean
public class chartView implements Serializable {

    private LineChartModel lineModel1;


    @PostConstruct
    public void init() {
        createLineModels();
    }

    public LineChartModel getLineModel1() {
        return lineModel1;
    }

    private void createLineModels() {
        lineModel1 = initLinearModel();
        lineModel1.setTitle("Game Performance");
        lineModel1.setLegendPosition("e");
        Axis yAxis = lineModel1.getAxis(AxisType.Y);
        yAxis.setMin(0);
        yAxis.setMax(10);


    }

    private LineChartModel initLinearModel() {
        LineChartModel model = new LineChartModel();

        LineChartSeries series1 = new LineChartSeries();
        series1.setLabel("Flugline");


        Point[] set1 = new Point[11];
        for (int i = 0; i<set1.length; i++) {
            Point temp = new Point();
             temp.x = i;
             temp.y = (int) (Math.random()*10);
             set1[i] = temp;
        }

        for (int i = 0; i<set1.length; i++) {
            series1.set(set1[i].x,set1[i].y);
        }
        System.out.println(series1);

        LineChartSeries series2 = new LineChartSeries();
        series2.setLabel("Vorgabe");
```

```java
        series2.set(0, 3);
        series2.set(1, 6);
        series2.set(2, 3);
        series2.set(3, 2);
        series2.set(4, 5);
        series2.set(5, 8);
        series2.set(6, 4);
        series2.set(7, 5);
        series2.set(8, 3);
        series2.set(9, 7);
        series2.set(10, 6);

        model.addSeries(series1);
        model.addSeries(series2);

        return model;
    }


}
```