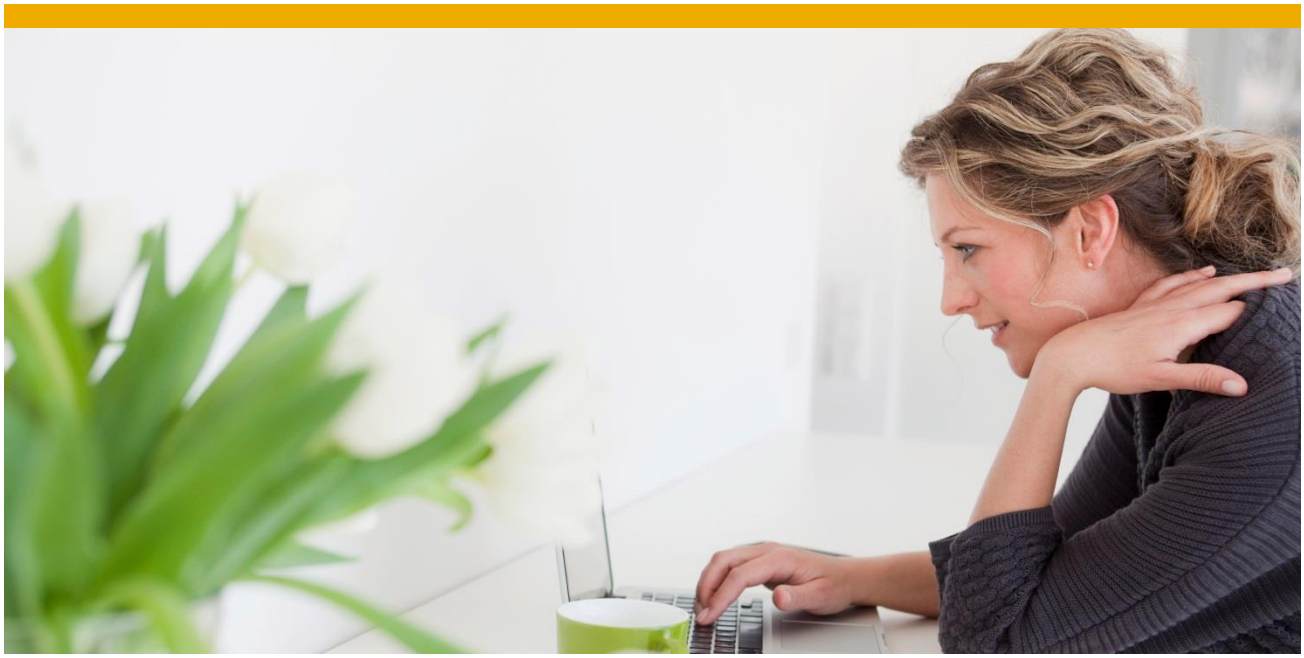

openSAP *Developing JAVA Based Apps with SAP HANA Cloud Platform*

week2_unit2 - Exercice

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Snippet 1

File – web.xml, Path– src/main/webapp/WEB-INF/web.xml, Project - espm-cloud-web

```
<resource-ref>
        <res-ref-name>jdbc/DefaultDB</res-ref-name>
        <res-type>javax.sql.DataSource</res-type>
</resource-ref>
```

Snippet 2

File - JpaEntityManagerFactory.java, Path - src/main/java/>com.sap.espm.model.web> JpaEntityManagerFactory.java, Project - espm-cloud-web

```
public static synchronized EntityManagerFactory getEntityManagerFactory()
            throws NamingException, SQLException {
      if (entityManagerFactory == null) {
            InitialContext ctx = new InitialContext();
            DataSource ds = (DataSource) ctx.lookup(DATA_SOURCE_NAME);
            Map<String, Object> properties = new HashMap<String,
Object>();
            properties.put(PersistenceUnitProperties.NON_JTA_DATASOURCE,
ds);
            entityManagerFactory = Persistence.createEntityManagerFactory(
                  PERSISTENCE_UNIT_NAME, properties);
            Utility.setEntityManagerFactory(entityManagerFactory);
      }
      return entityManagerFactory;

}
```

Snippet 3

File: SalesOrderHeader.java, path- Java src/main/java>com.sap.espm.model>SalesOrderHeader.java , Project - espm-cloud-jpa

```
@Entity
@Table(name = "ESPM_SALES_ORDER_HEADER")
```

Snippet 4:

File: SalesOrderHeader.java, path - src/main/java>com.sap.espm.model>SalesOrderHeader.java , Project - espm-cloud-jpa

```
@PrePersist
      private void persist() {
            Calendar cal = Calendar.getInstance();
            Date date = new Date();
            cal.setTime(date);
            this.lifeCycleStatus = "N";
            this.lifeCycleStatusName = "New";
            int itemNumber = 10;
            this.netAmount = new BigDecimal("0.00");
            this.taxAmount = new BigDecimal("0.00");
            this.grossAmount = new BigDecimal("0.00");
            this.createdAt = cal;
            for (SalesOrderItem item : salesOrderItems) {
                  item.setSalesOrderId(this.getSalesOrderId());
                  item.setItemNumber(itemNumber);
                  itemNumber += 10;
                  item.persist();
                  this.netAmount = this.netAmount.add(item.getNetAmount())
                              .setScale(3);
                  this.taxAmount = this.taxAmount.add(item.getTaxAmount())
                              .setScale(3);
                  this.grossAmount = this.grossAmount.add(item.getGrossAmount())
                              .setScale(3);
            }
      }
```

Snippet 5:

File: persistence.xml path- src/main/resources/META-INF/persistence.xml, Project - espm-cloud-jpa

```
<!-- To do add the SalesOrderHeader class -->
<class>com.sap.espm.model.SalesOrderHeader</class>
```

Coding Samples
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