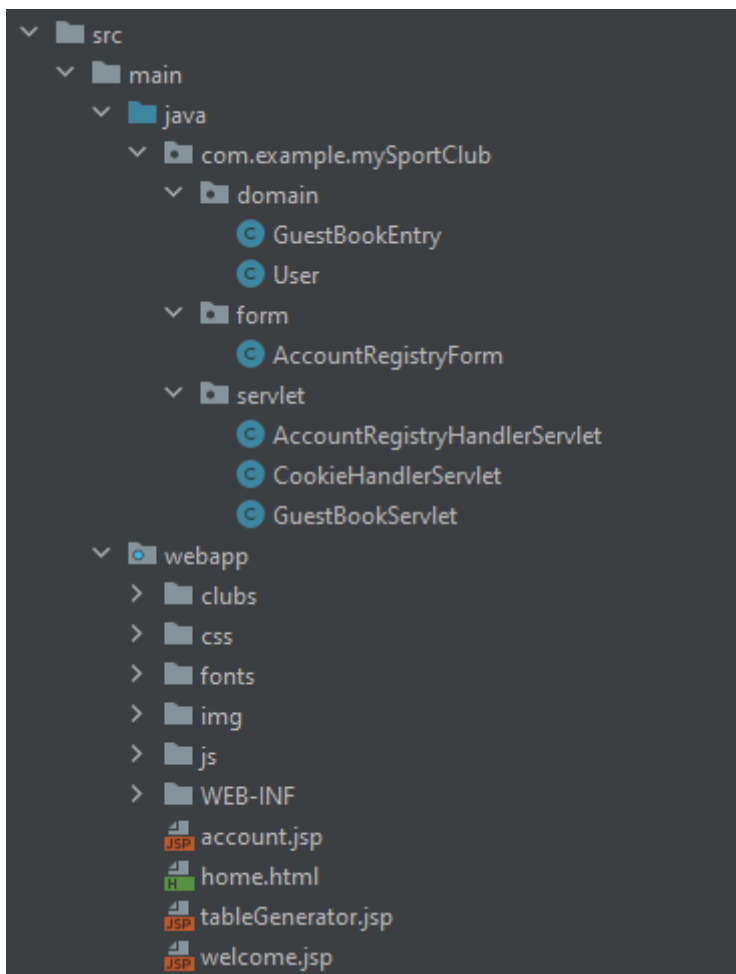


14 User anlegen

Dokumentieren Sie, welchen Web-Container Sie einsetzen und das Deployment ihrer Web-Applikation darauf.

Für diese Übung wurde als Web-Container Tomcat v9.0.54 verwendet. Hierfür kann man nach der installation einfach mit IntelliJ ein Projekt, mit dem Tomcat Web-Container, aufsetzen. Die Projektstruktur wird dann automatisch aufgestzt. Die bestehenden html files und static ressources muss man dann einfach in den **webapp** Ordner legen.

In meiner Struktur sind die Bean files die Form files, da wir diese auch so im Software Engineering Projekt verwenden bzw. benennen.



JSTL dependency im **pom.xml** file.

```
<dependency>
  <groupId>jstl</groupId>
  <artifactId>jstl</artifactId>
  <version>1.2</version>
</dependency>
```

Deployment außerhalb der IDE


Für das Deployment der Web-Application, außerhalb der IDE, kann man das exportierte .war File, bei mir unter den Name „MySportClub-1.1-SNAPSHOT“, in den webapps Ordner unter **..\apache-tomcat-9.0.54\webapps** legen. Dieses File wird dann, nachdem man Tomcat über das startup.bat gestartet hat, automatisch entpackt. Die Tomcat homepage ist über **http://localhost:8080/** erreichbar. Über den Button **Manager App** (siehe Abb. 1) muss man sich dann einloggen. Die Login daten muss man allerdings davor unter **\\apache-tomcat-9.0.54\\conf** im file **tomcat-users.xml** setzen (siehe Abb. 2). Im Tomcat Web Application Manager kann man dann bei den Applications unsere Web-Application aufrufen (siehe Abb. 3). Alternativ kann man das .war file einfach Hochladen (siehe Abb. 4) und dann einfach wie bei Abbildung 3 aufrufen.

Die Einstiegsseite erreicht man dann über dieser URL
http://localhost:8080/MySportClub-1.1-SNAPSHOT/

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Apache Tomcat/9.0.54

If you're seeing this, you've successfully installed Tomcat. Congratulations!

 Recommended Reading:
[Security Considerations How-To](#)
[Manager Application How-To](#)
[Clustering/Session Replication How-To](#)

Server Status
 Manager App
 Host Manager

Developer Quick Start
[Tomcat Setup](#) [Realms & AAA](#) [Examples](#) [Servlet Specifications](#)
[First Web Application](#) [JDBC DataSources](#) [Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 9.0 access to the manager application is split between different users. [Read more...](#)

[Release Notes](#)
[Changelog](#)
[Migration Guide](#)
[Security Notices](#)

Documentation

[Tomcat 9.0 Documentation](#)
[Tomcat 9.0 Configuration](#)
[Tomcat Wiki](#)

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Developers may be interested in:

[Tomcat 9.0 Bug Database](#)
[Tomcat 9.0 JavaDocs](#)
[Tomcat 9.0 Git Repository at GitHub](#)

Getting Help

FAQ and Mailing Lists

The following mailing lists are available:

[tomcat-announce](#)
 Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)
 User support and discussion

[taglibs-user](#)
 User support and discussion for [Apache Taglibs](#)

[tomcat-dev](#)
 Development mailing list, including commit messages

Other Downloads

[Tomcat Connectors](#)
[Tomcat Native](#)
[Taglibs](#)
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Abbildung 1

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<tomcat-users xmlns="http://tomcat.apache.org/xml"
              xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
              xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
              version="1.0">
<!--
By default, no user is included in the "manager-gui" role required
to operate the "/manager/html" web application. If you wish to use this app,
you must define such a user - the username and password are arbitrary.

Built-in Tomcat manager roles:
- manager-gui - allows access to the HTML GUI and the status pages
- manager-script - allows access to the HTTP API and the status pages
- manager-jmx - allows access to the JMX proxy and the status pages
- manager-status - allows access to the status pages only

The users below are wrapped in a comment and are therefore ignored. If you
wish to configure one or more of these users for use with the manager web
application, do not forget to remove the <!-- .. --> that surrounds them. You
will also need to set the passwords to something appropriate.
-->
<user username="admin" password="admin" roles="manager-gui"/>
<user username="robot" password="admin" roles="manager-script"/>
<!--
The sample user and role entries below are intended for use with the
examples web application. They are wrapped in a comment and thus are ignored
when reading this file. If you wish to configure these users for use with the
examples web application, do not forget to remove the <!-- .. --> that surrounds
them. You will also need to set the passwords to something appropriate.
-->
<!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
<user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
<user username="role1" password="<must-be-changed>" roles="role1"/>
-->
</tomcat-users>
```

Abbildung 2

Applications		
Path	Version	Display Name
/	None specified	Welcome to Tomcat
/Guestbook-1.0-SNAPSHOT	None specified	
/MySportClub-1.0-SNAPSHOT	None specified	
/MySportClub-1.1-SNAPSHOT	None specified	
/docs	None specified	Tomcat Documentation
/examples	None specified	Servlet and JSP Examples
/host-manager	None specified	Tomcat Host Manager Application
/manager	None specified	Tomcat Manager Application

Abbildung 3

WAR file to deploy	
	Select WAR file to upload <input type="button" value="Choose file"/> No file chosen <input type="button" value="Deploy"/>

Abbildung 4