**CCDA SCORE Application Local Setup**

**Building scorecard application in your Local:**

This process allows you to create scorecard application as in similar to ours hosted at <https://sitenv.org/scorecard/> with statistics in your local and calling reference validator on SITE.

CCDA Score Card has the dependency of CCDA Parser Project. Dependency will be resolved by building a jar file of CCDA Parser by maven.

**Source Code Links**

<https://github.com/siteadmin/CCDA-Parser>

<https://github.com/siteadmin/CCDA-Score-CARD>

**Note**: Master branch contains latest code that is deployed in production.

**Technical Dependencies:**

* Databases (In memory and Local)
  + In Memory – File Structures and Directory Creations
  + Local DB- PostegreSQL9.1 or PostegreSQL9.2
* Java 7
* Maven
* Apache Tomcat 7

**DATABASE Creation:** Please follow below mentioned steps to create local POSTGRES Database. We are using POSTGRES database to store Score card statistical information.

**Database Name:** site\_scorecard

**Database Owner:** scorecarduser

**Create role with name “scorecarduser”**

**Query to Build Database On POSTGRES:**

**Run the below query on Postgres editor.**

CREATE DATABASE site\_scorecard

WITH OWNER = scorecarduser

ENCODING = 'UTF8'

TABLESPACE = pg\_default

LC\_COLLATE = 'English\_United States.1252'

LC\_CTYPE = 'English\_United States.1252'

CONNECTION LIMIT = -1;

**Query to Build scorecard\_statistics table.**

**Run the below query on Postgres editor.**

CREATE TABLE scorecard\_statistics

(

id serial NOT NULL,

doctype character varying(100),

docscore smallint NOT NULL,

patientscore smallint NOT NULL,

allergiessectionscore smallint NOT NULL,

encounterssectionscore smallint NOT NULL,

immunizationssectionscore smallint NOT NULL,

medicationssectionscore smallint NOT NULL,

problemssectionscore smallint NOT NULL,

proceduressectionscore smallint NOT NULL,

socialhistorysectionscore smallint NOT NULL,

vitalssectionscore smallint NOT NULL,

resultssectionscore smallint NOT NULL,

miscscore smallint NOT NULL,

docname character varying(500),

createtimestamp timestamp without time zone DEFAULT now(),

CONSTRAINT scorecard\_statistics\_pkey PRIMARY KEY (id)

)

WITH (

OIDS=FALSE

);

ALTER TABLE scorecard\_statistics

OWNER TO scorecarduser;

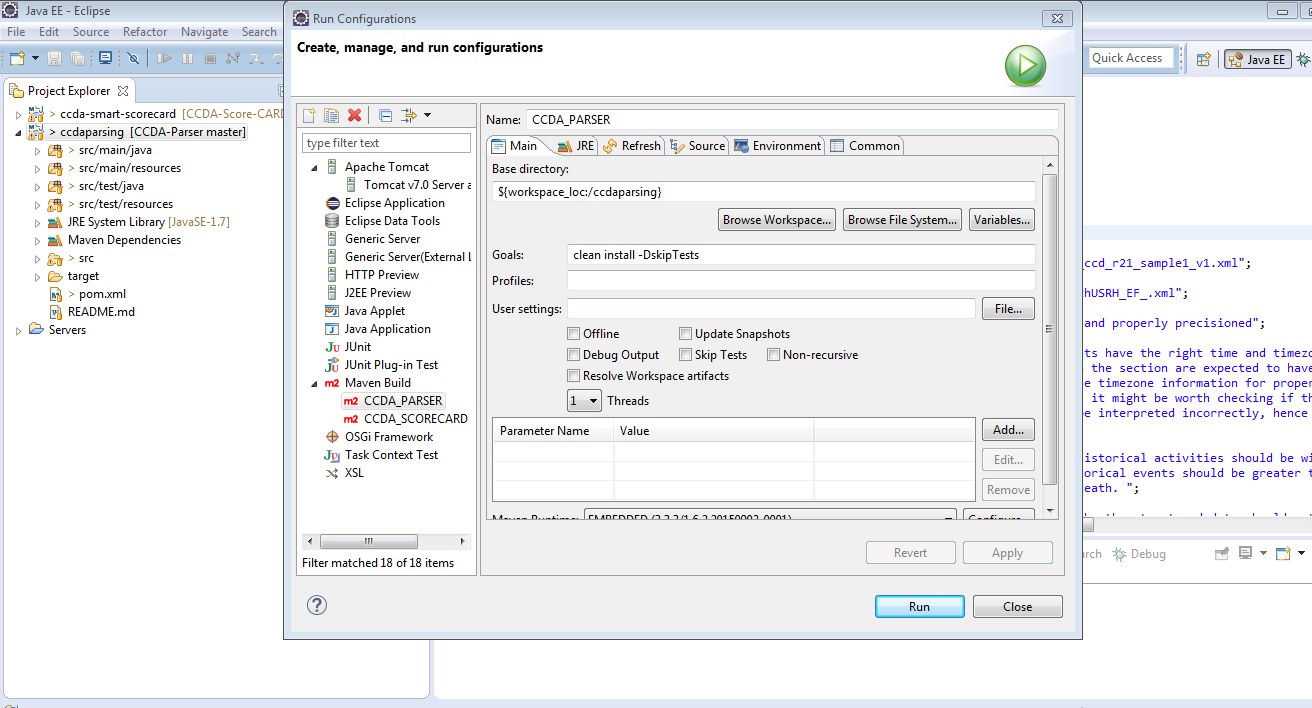
**In Memory Database:**

* Create below mentioned directory structure. For windows please create the directory structure in C: drive.
  + **\var\opt\CCDAScorecard\code\_repository**
* Place the LOINC .csv (provide GIT link) file in below location.
  + **\var\opt\CCDAScorecard\code\_repository\LOINC**
* Place the TEMPLATEIDS.csv (GIT link) file in below location.
  + **\var\opt\CCDAScorecard\code\_repository\TEMPLATEIDS**
* Place the VITALS.csv(GIT link) file in below location.
  + **\var\opt\CCDAScorecard\code\_repository\TEMPLATEIDS**

**Build Parser application:** Parser application can be built by using Maven through command line or by using importing the project to eclipse.

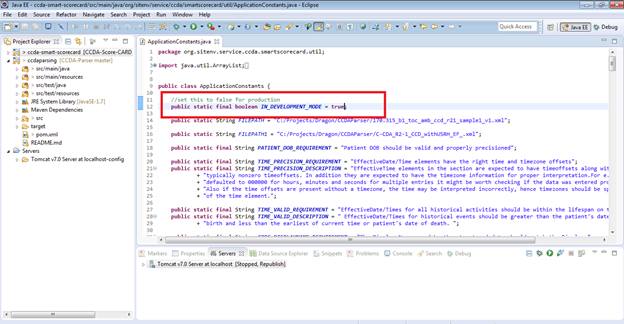
**Using Maven:** Run “mvn clean install –DskipTests” to build the application.

**Using Tomcat:** Set Maven build run configuration as per below screenshot**.** After building the parser application please close the application in eclipse.

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**Build and Deploy Score card application:**

* Update IN\_DEVELOPMENT\_MODE value to “true” in applicationConstants.java file

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**Build and deploy using Maven and Tomcat:**

* Run “mvn clean install” to build scorecard application.
* Add below mentioned JNDI resource in tomcat server.xml and context.xml:

**Server.xml:**

<GlobalNamingResources>

<Resource auth=*"Container"* driverClassName=*"org.postgresql.Driver"* maxActive=*"100"* maxIdle=*"30"* maxWait=*"10000"* name=*"jdbc/site\_scorecard"* password=*"scorecarduser"* type=*"javax.sql.DataSource"* url=*"jdbc:postgresql://localhost/site\_scorecard"* username=*"scorecarduser"*/>

**Context.xml:**

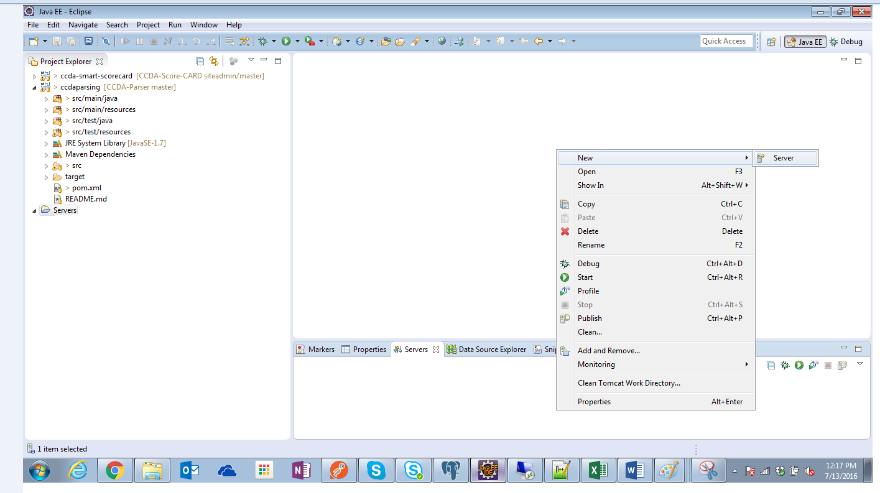
<WatchedResource>WEB-INF/web.xml</WatchedResource>

<ResourceLink global=*"jdbc/site\_scorecard"* name=*"jdbc/site\_scorecard"* type=*"javax.sql.DataSource"*></ResourceLink>

* Copy the war file generated by maven to tomcat webapps folder and start tomcat server.

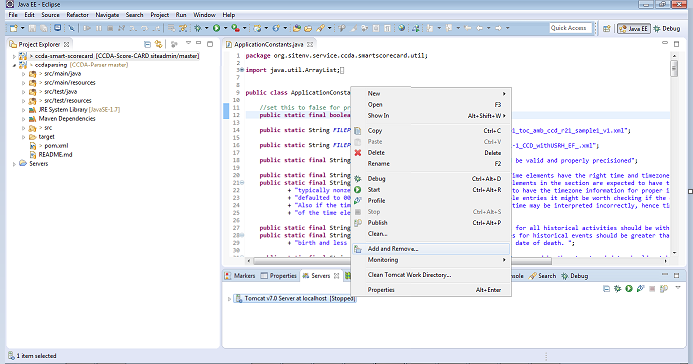
**Build and deploy using Tomcat:**

* Import score card application to eclipse and add tomcat server to eclipse.
* Proceed with defining a new server (Tomcat 7) using the eclipse wizard as shown below.

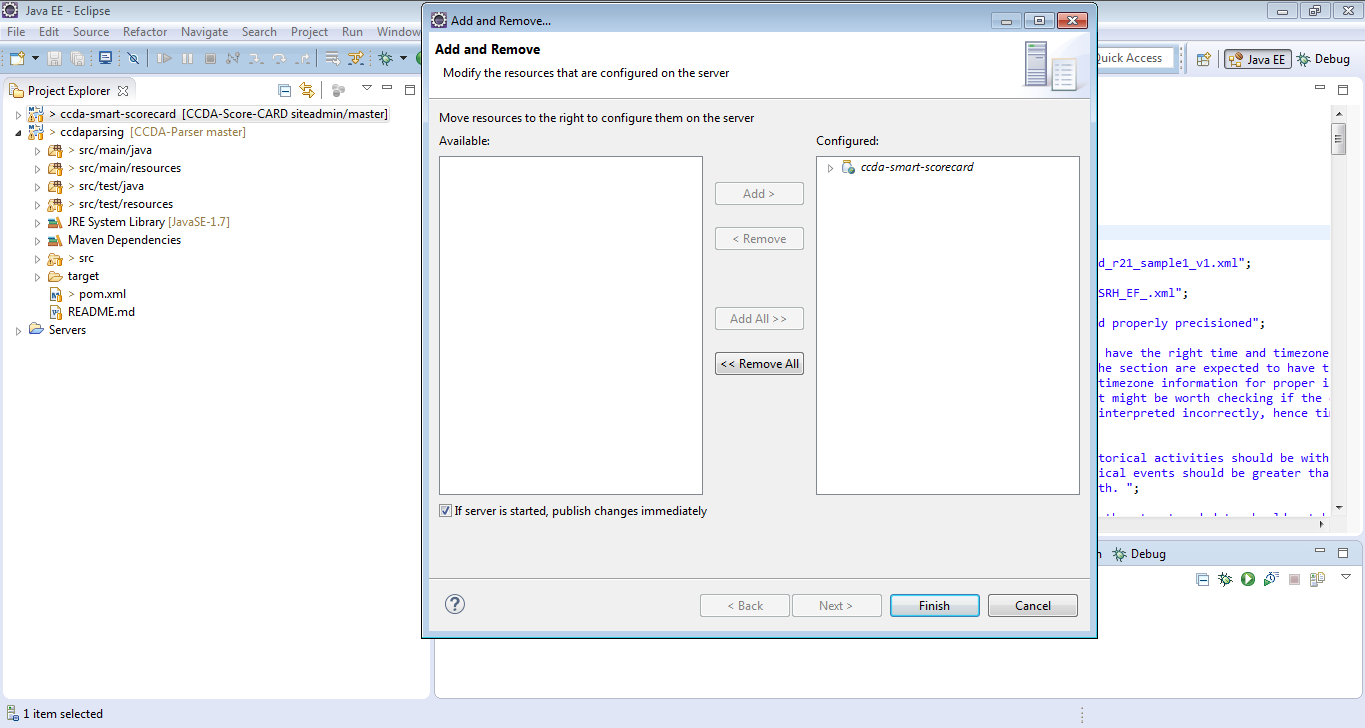


After adding the server, it will get listed as shown in below screenshot in eclipse.

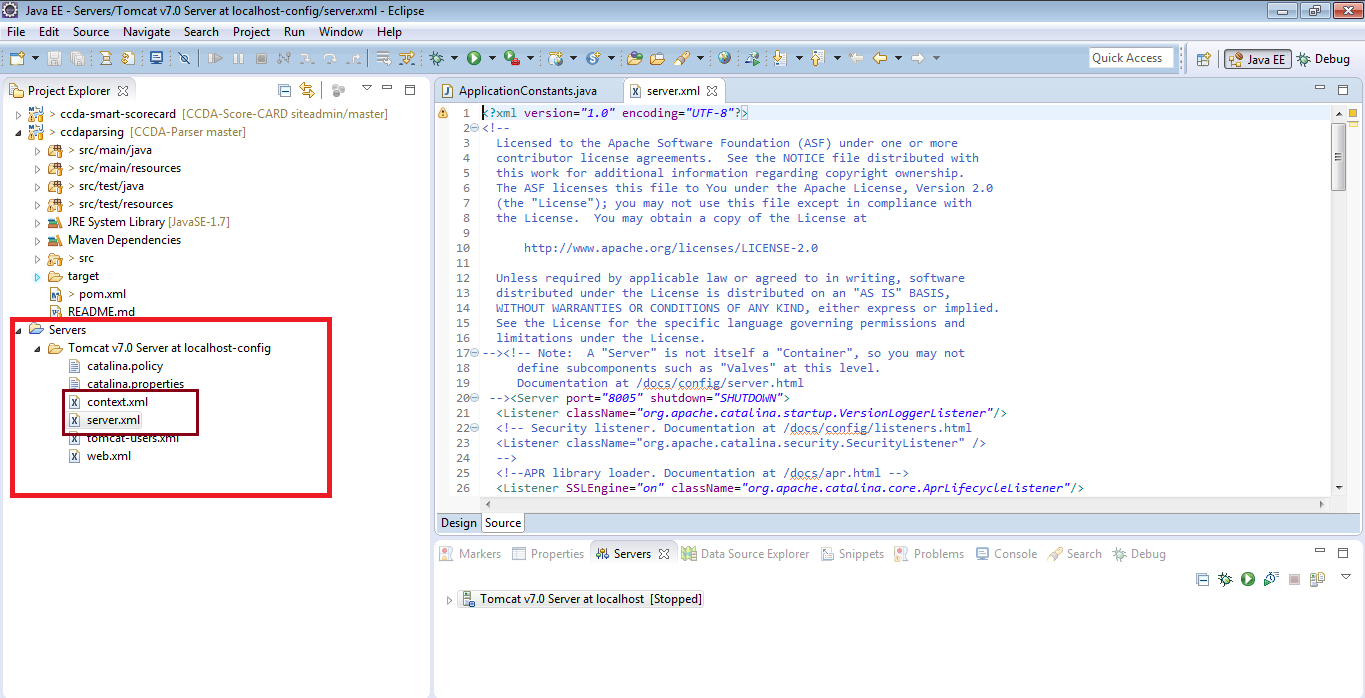
* Right click on tomcat server and click “Add and Remove” option.



* Add score card application to tomcat and start the server.



* Add below mentioned JNDI resource to eclipse tomcat server.xml and context.xml



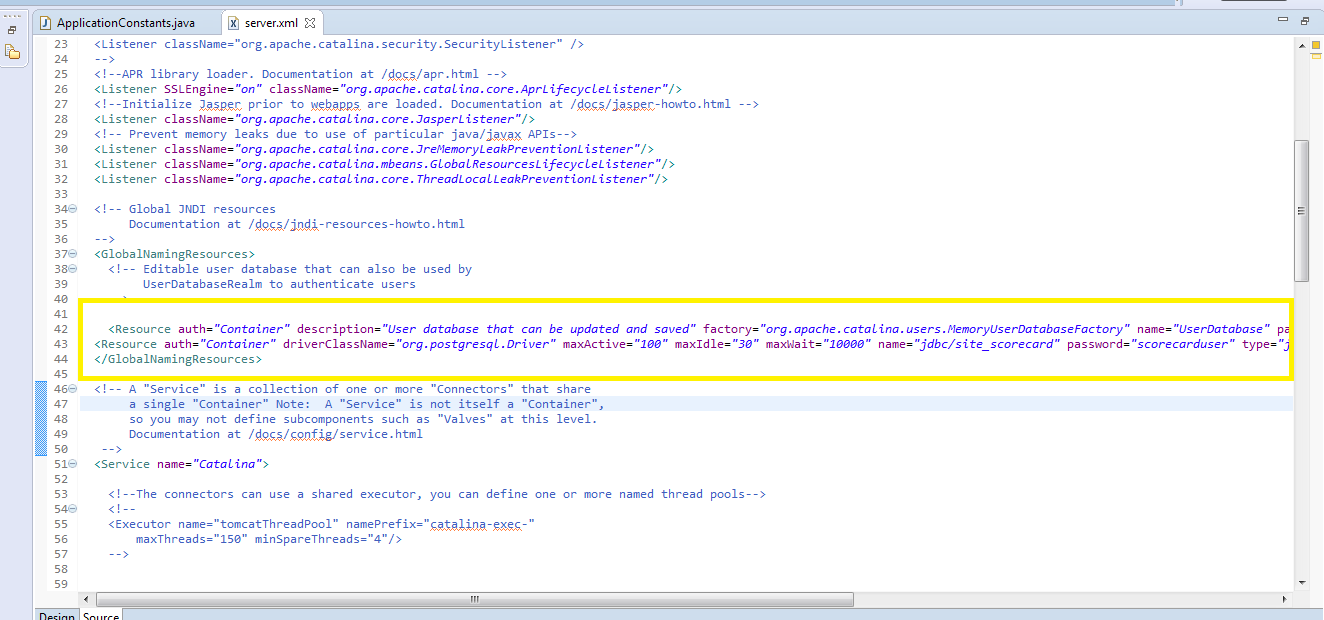
**Server.xml:**

Add the below to your server.xml

<GlobalNamingResources>

<Resource auth=*"Container"* driverClassName=*"org.postgresql.Driver"* maxActive=*"100"* maxIdle=*"30"* maxWait=*"10000"* name=*"jdbc/site\_scorecard"* password=*"scorecarduser"* type=*"javax.sql.DataSource"* url=*"jdbc:postgresql://localhost/site\_scorecard"* username=*"scorecarduser"*/>

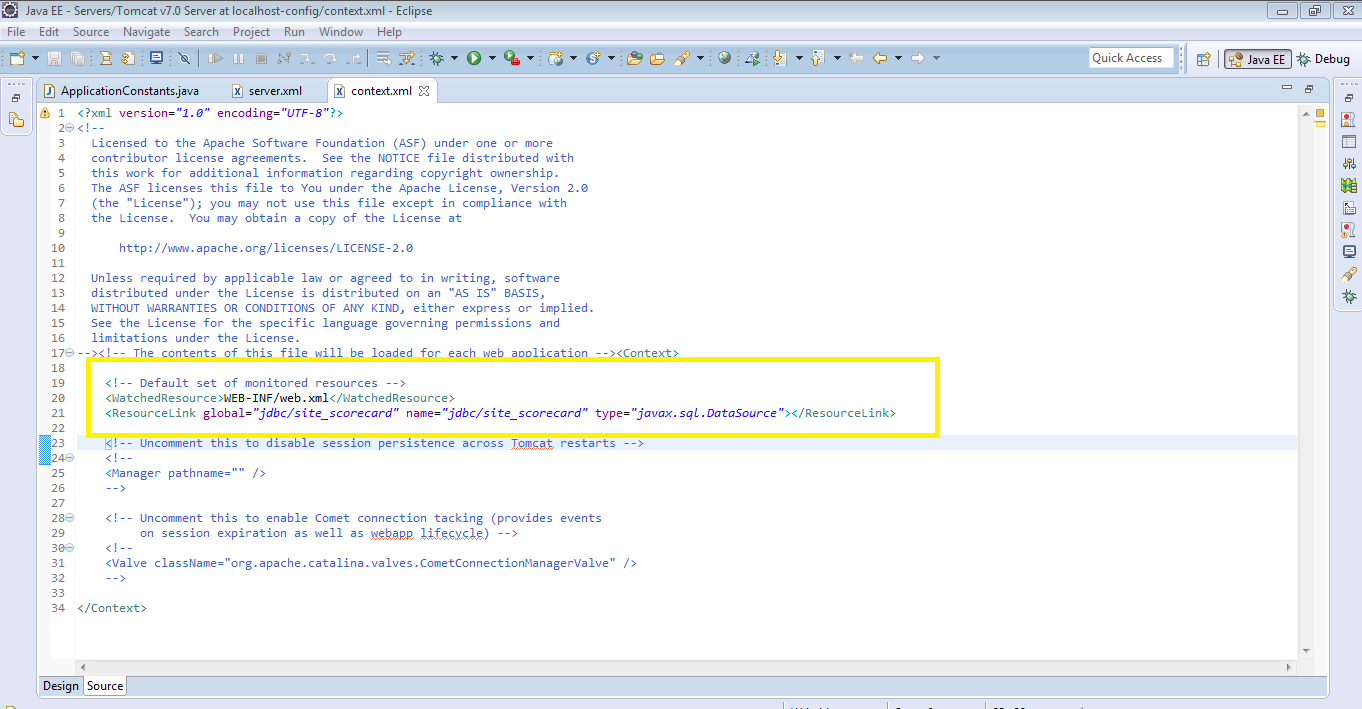
</GlobalNamingResources>



**context.xml:**

<WatchedResource>WEB-INF/web.xml</WatchedResource>

<ResourceLink global=*"jdbc/site\_scorecard"* name=*"jdbc/site\_scorecard"* type=*"javax.sql.DataSource"*></ResourceLink>



**You should be able to access the scorecard application at** [**http://localhost:<tomcat port number>/ccda-smart-scorecard/**](http://localhost:%3Ctomcat%20port%20number%3E/ccda-smart-scorecard/) **once the server is started.**