

User Manual

To execute the the doctor-patient information system code:

Please install Java (version 8 preferred)

```
...6lbcj6qlfnvfy2z0r_mm0000gn/T/ __CFBundleIdentifier=com.apple.Terminal ...    ...pringfield/Web Services/Te

[ashwinnair@Ashwins-MacBook-Pro restlet % java -version
openjdk version "1.8.0_282"
OpenJDK Runtime Environment (Zulu 8.52.0.23-CA-macos-aarch64) (build 1.8.0_282-b08)
OpenJDK 64-Bit Server VM (Zulu 8.52.0.23-CA-macos-aarch64) (build 25.282-b08, mixed mode)
ashwinnair@Ashwins-MacBook-Pro restlet % █
```

Please install Apache Tomcat (version 9 preferred)


← → ↺ ⌂ ⓘ localhost:8080 ☆

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Apache Tomcat/9.0.43

APACHE SOFTWARE FOUNDATION
http://www.apache.org/

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](#)
[First Web Application](#)

[Realms & AAA](#)
[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)
[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

Other Documentation

Tomcat Connectors
mod_jk Documentation

Get Involved

Overview
Source Repositories

Miscellaneous

Contact
Legal

Apache Software Foundation

Who We Are

localhost:8080/manager/html

Please install Apache Ant

```
...6lbcj6qlfnvfy2z0r_mm0000gn/T/ __CFBundleIdentifier=com.apple.Terminal ... ...pringfield/Web  
[ashwinnair@Ashwins-MacBook-Pro restlet % ant -version  
Apache Ant(TM) version 1.10.9 compiled on September 27 2020  
ashwinnair@Ashwins-MacBook-Pro restlet % █
```

The Apache Tomcat Server must be started by executing the startup file in the bin folder of the Apache Tomcat Folder which is generated on downloading Tomcat.

```
...lbcj6qlfnvfy2z0r_mm0000gn/T/ __CFBundleIdentifier=com.apple.Terminal ...pringfield/Web Services/TermProject/RestletDrPatientRepo/restlet -- -zsh ~/Desktop/Softwares/TomCat/apache-tomcat-9.0.43/bin -- -zsh  
ashwinnair@Ashwins-MacBook-Pro bin % ./startup.sh  
Using CATALINA_BASE:   /Users/ashwinnair/Desktop/Softwares/TomCat/apache-tomcat-9.0.43  
Using CATALINA_HOME:   /Users/ashwinnair/Desktop/Softwares/TomCat/apache-tomcat-9.0.43  
Using CATALINA_TMPDIR: /Users/ashwinnair/Desktop/Softwares/TomCat/apache-tomcat-9.0.43/temp  
Using JRE_HOME:        /Library/Java/JavaVirtualMachines/zulu-8.jdk/Contents/Home  
Using CLASSPATH:       /Users/ashwinnair/Desktop/Softwares/TomCat/apache-tomcat-9.0.43/bin/bootstrap.jar:/Users/ashwinnair/Desktop/Softwares/TomCat/apache-tomcat-9.0.43/bin/tomcat-juli.jar  
Tomcat started.  
ashwinnair@Ashwins-MacBook-Pro bin % █
```

Create a new build.xml file or modify the existing build.xml inside the webservice folder. The Tomcat and Java file path are variable and differ between systems. Please update both parameters with the file path of the existing in your system.

Navigate to the restlet folder of the application

To compile and deploy the code please enter the following command

ant -Dwar.name=drpatient deploy

```

...6lbcj6qfwnfy2z0r_mm0000gn/T/___CFBundleIdentifier=com.apple.Terminal ... ..pringfield/Web Services/TermProject/RestletDrPatientRepo/restlet -- -zsh ~/Desktop/Softwares/TomCat/apache-tomcat-9.0.43/bin -- -zsh +
ashwinnair@Ashwins-MacBook-Pro restlet % ant -Dwar.name=drpatient deploy
Buildfile: /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build.xml

clean:
[delete] Deleting directory /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build

prepare:
[mkdir] Created dir: /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build
[mkdir] Created dir: /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build/WEB-INF
[mkdir] Created dir: /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build/WEB-INF/classes
[mkdir] Created dir: /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build/WEB-INF/lib
[mkdir] Created dir: /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build/WEB-INF/data
[copy] Copying 21 files to /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build
[copy] Copying 1 file to /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build/WEB-INF
[copy] Copying 2 files to /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build/WEB-INF/data
[copy] Copying 5 files to /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build/WEB-INF/lib

compile:
[javac] /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build.xml:166: warning: 'includeantruntime' was not set, defaulting to build.
sysclasspath=last; set to false for repeatable builds
[javac] Compiling 21 source files to /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/build/WEB-INF/classes

deploy:
[war] Building war: /Users/ashwinnair/Desktop/University Of Illinois Springfield/Web Services/TermProject/RestletDrPatientRepo/restlet/drpatient.war
[copy] Copying 1 file to /Users/ashwinnair/Desktop/Softwares/TomCat/apache-tomcat-9.0.43/webapps

BUILD SUCCESSFUL
Total time: 0 seconds
ashwinnair@Ashwins-MacBook-Pro restlet % █

```

On successful deployment of the code you can access the following API urls through the browser or curl commands:

Operation	Syntax	Sample
Display of all doctors and assigned patients information in Plain Text	GET http://localhost:8080/drpatient/	http://localhost:8080/drpatient/ curl --request GET http://localhost:8080/drpatient/
Display of all doctors and assigned patients information in XML	GET http://localhost:8080/drpatient/xml	http://localhost:8080/drpatient/xml
Display of Individual doctor and assigned patients information in Plain Text	GET <a href="http://localhost:8080/drpatient/<doctorid>">http://localhost:8080/drpatient/<doctorid>	http://localhost:8080/drpatient/1

Display of Individual doctors and assigned patients in XML	GET <a href="http://localhost:8080/drpatient/xml/<doctorId>">http://localhost:8080/drpatient/xml/<doctorId>	http://localhost:8080/drpatient/xml/1
Display of all doctors information in Plain Text	GET http://localhost:8080/drpatient/doctors	http://localhost:8080/drpatient/doctors
Display of individual Doctor information in Plain Text	GET <a href="http://localhost:8080/drpatient/doctors/<doctorId>">http://localhost:8080/drpatient/doctors/<doctorId>	http://localhost:8080/drpatient/doctors/1
Display of individual Doctor information in XML	GET <a href="http://localhost:8080/drpatient/xml/doctors/<doctorId>">http://localhost:8080/drpatient/xml/doctors/<doctorId>	http://localhost:8080/drpatient/xml/doctors/1
Display of all patients information in Plain Text	GET http://localhost:8080/drpatient/patients	http://localhost:8080/drpatient/patients
Display of all patients information in XML	GET http://localhost:8080/drpatient/xml/patients	http://localhost:8080/drpatient/xml/patients
Display of individual Patient information in Plain Text	GET <a href="http://localhost:8080/drpatient/patients/<patientId>">http://localhost:8080/drpatient/patients/<patientId>	http://localhost:8080/drpatient/patients/1
Display of individual Patient information in XML	GET <a href="http://localhost:8080/drpatient/xml/patients/<patientId>">http://localhost:8080/drpatient/xml/patients/<patientId>	http://localhost:8080/drpatient/xml/patients/1
Create a new doctor and assigned patients	POST http://localhost:8080/drpatient/create <i>Payload :</i> id=<doctorId>&name=<doctorName>&patientNum=<numberOfPatients>&patientId<#>=<patientId>&patientName<#>=<patientName>&insuranceNumber<#>=<insuranceNo>	curl --request POST --data "id=5&name=Alan&patientNum=2&patientid1=7&patientname1=Krish Sick&insurancenum1=CCS765&patientid2=8&patientname2=Matt Sick&insurancenum2

		=CCS884" http://localhost:8080/dr patient/create
Update doctor's name	PUT http://localhost:8080/drpatient/update <i>Payload :</i> id=<doctorId>&name=<doctorName>	curl --request PUT --data "id=6&name=Jincy" http://localhost:8080/drpatient/update
Delete a doctor and assigned patients	DELETE <a href="http://localhost:8080/drpatient/delete/<doctorId>">http://localhost:8080/drpatient/delete/<doctorId>	curl --request DELETE http://localhost:8080/drpatient/delete/2