myMedications Application Installation

# Purpose

This document describes the steps needed to build and install the myMedications application.

# Prerequisites

1. The myMedications application source code has been cloned from its GitHub repository
2. Latest version of Apache Maven is installed and configured

# Download and Install MongoDB

The myMedications application uses MongoDB as its data source for storing users and medications.

## Download MongoDB

Download the latest version of MongoDB for your operating system at the following link: <https://www.mongodb.org/downloads>

## Install MongoDB

To install MongoDB, follow the instructions for your operating system at the following link: [http://docs.mongodb.org/manual/installation/#installation-guides](http://docs.mongodb.org/manual/installation/%23installation-guides)

# Download and Install Tomcat 8

The myMedications application is packaged in a WAR file that needs to be installed into a J2EE container. For these instructions, we have chosen Tomcat 8, however; nearly any current J2EE container could be used.

## Download Tomcat 8

Download the latest version of Tomcat 8 for your operating system at the following link: <https://tomcat.apache.org/download-80.cgi>

## Install Tomcat 8

To install Tomcat 8, follow the instructions for your operating system at the following link: <https://tomcat.apache.org/tomcat-8.0-doc/setup.html>

To facilitate ease of WAR deployments, these instructions make use of Tomcat’s manager/html web application. By default, no user is included in the “manager-gui” role which is required to operate the “/manager/html” application. Edit the <tomcat\_home>\conf\tomcat-users.xml file and define a user that has the “manager-gui” role.

For example:   
<user username=”admin” password=”mypwd” roles=”admin,manager,manger-gui-manager-script”/>

# Build myMedications WAR package

## Edit *myMedications.properties*

The myMedications application needs to know where MongoDB is installed. The *myMedications.properties* file, located in <sourcecode\_root>\src\main\resources will need to be updated to reflect the MongoDB location.

1. Edit the <sourcecode root>\src\main\resources\myMedications.properties file
2. Specify the correct *mongoServerHost* property
3. Specify the correct *mongoServerPort* property
4. Save and exit the file editor

## Compile

The myMedications application uses Apache Maven as its build tool. To compile and create the myMedications application WAR file, open a Command Prompt (Shell) and issue the following commands:

1. $\> cd sourcecode\_root
2. $\sourcecode\_root> mvn clean package -DskipTests

# Deploy on Tomcat

After the myMedications application has been successfully built, the WAR package is located in the <sourcecode\_root>\target directory. These instructions assume that the Tomcat manager context has been deployed and configured in the Download and Install Tomcat 8 section.

1. Open a web browser
2. Navigate to Tomcat’s manager application: http://<tomcathost>:<tomcatport>/manager
3. Click on the Browse button in the Select WAR to upload section
4. Browse and select the <sourcecode\_root>\target\fdadi.war file
5. Click on the Deploy button to deploy the application