USER GUIDE

REQUIREMENTS

RECOMMENDED BROWSERS

Supports the following Web Browsers:

- Microsoft Edge 39 and above
- Firefox 53 and 52 ESR and above
- Google Chrome Version 59 and above

Environment Setup

- Java Runtime Environment (JRE)
- Apache Tomcat 8.5.4 (Server)
- MySQL Server 5.6 + MySQL Workbench GUI + JDBC Connector (DB)
- Initialize MySQL tables
- Deploy Project WAR File (Compiled Source)
- Start the Tomcat Service

INSTALLATION

1. Java SE Runtime Environment

a. Download and Install JRE

https://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html

Java SE Runtime Environment 8u212

You must accept the Oracle Technology Network License Agreement for Oracle Java SE to download this software.

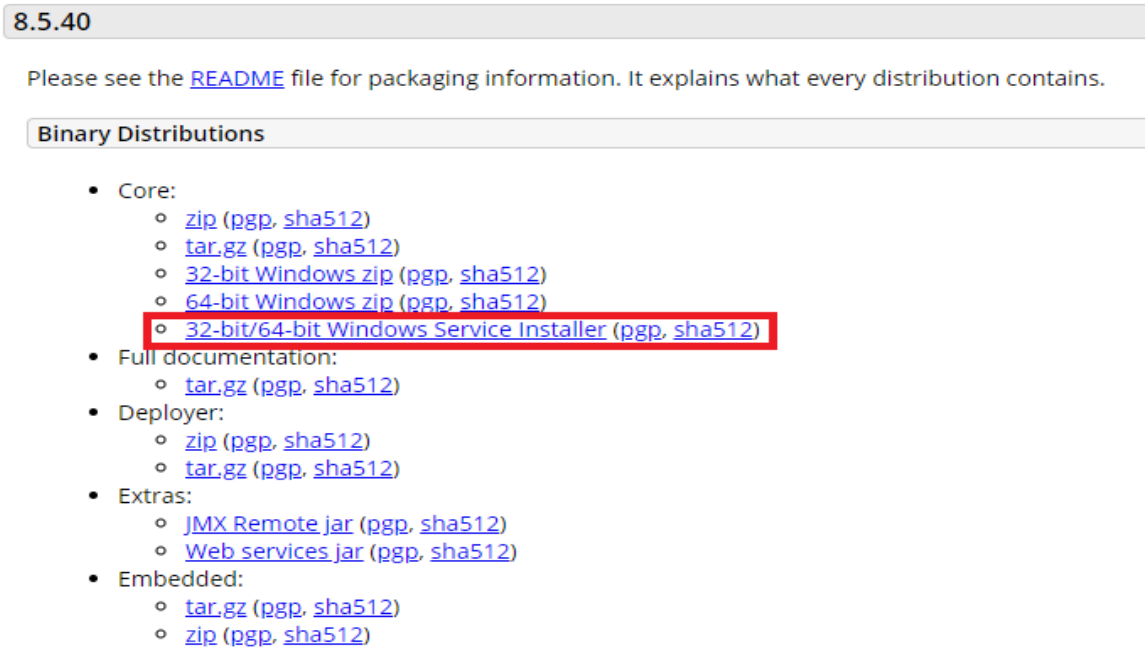
○ Accept License Agreement ◉ Decline License Agreement

Product / File Description	File Size	Download
Linux x86	71.22 MB	jre-8u212-linux-i586.rpm
Linux x86	86.97 MB	jre-8u212-linux-i586.tar.gz
Linux x64	68 MB	jre-8u212-linux-x64.rpm
Linux x64	83.82 MB	jre-8u212-linux-x64.tar.gz
Mac OS X x64	79.36 MB	jre-8u212-macosx-x64.dmg
Mac OS X x64	70.93 MB	jre-8u212-macosx-x64.tar.gz
Solaris SPARC 64-bit	46.1 MB	jre-8u212-solaris-sparcv9.tar.gz
Solaris x64	43.39 MB	jre-8u212-solaris-x64.tar.gz
Windows x86 Online	1.95 MB	jre-8u212-windows-i586-iftw.exe
Windows x86 Offline	66.37 MB	jre-8u212-windows-i586.exe
Windows x86	68.79 MB	jre-8u212-windows-i586.tar.gz
Windows x64	75.98 MB	jre-8u212-windows-x64.exe
Windows x64	75.05 MB	jre-8u212-windows-x64.tar.gz

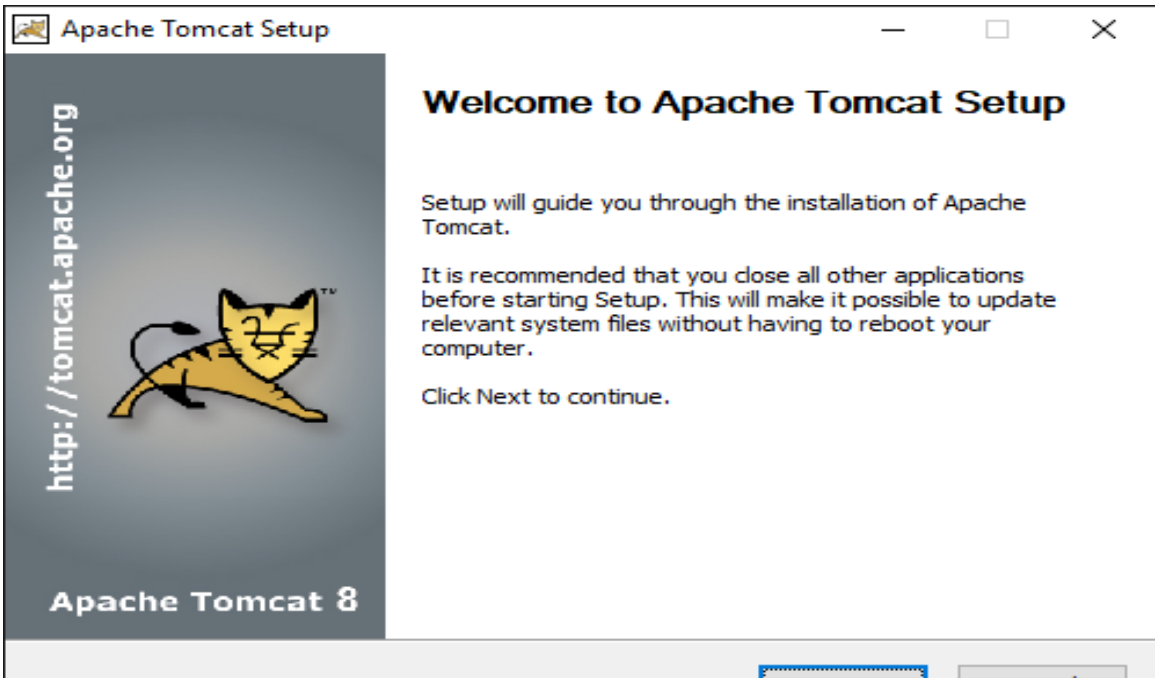
2. Apache Tomcat

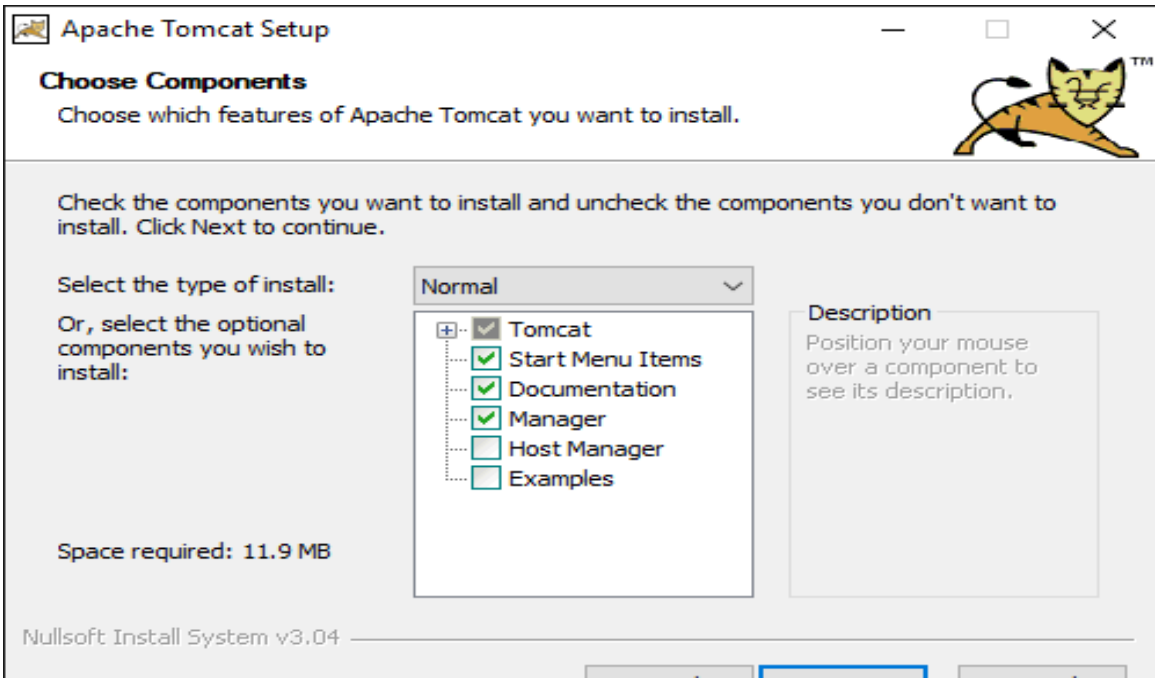
a. Download Apache Tomcat 8.5.4

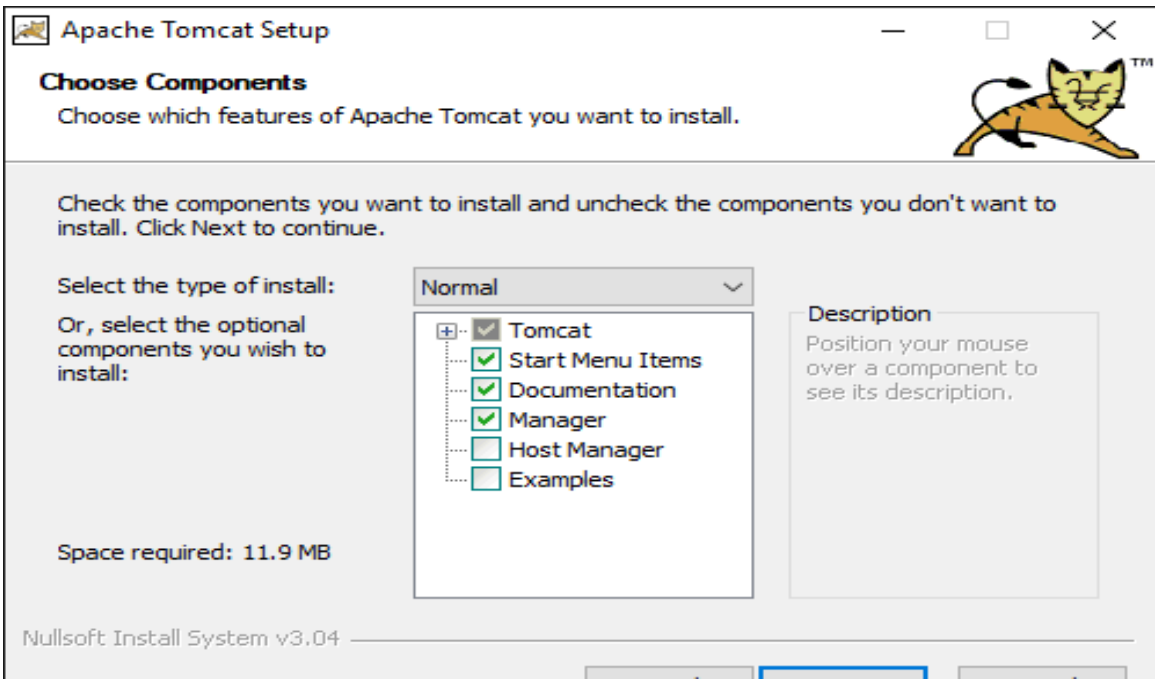
https://tomcat.apache.org/download-80.cgi



b. Run the Installation




Apache Tomcat Setup
Choose Components
Choose which features of Apache Tomcat you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select the type of install:
Normal
Or, select the optional components you wish to install:
Tomcat
Start Menu Items
Documentation
Manager
Host Manager
Examples
Description
Position your mouse over a component to see its description.
Space required: 11.9 MB
Nullsoft Install System v3.04


Apache Tomcat Setup
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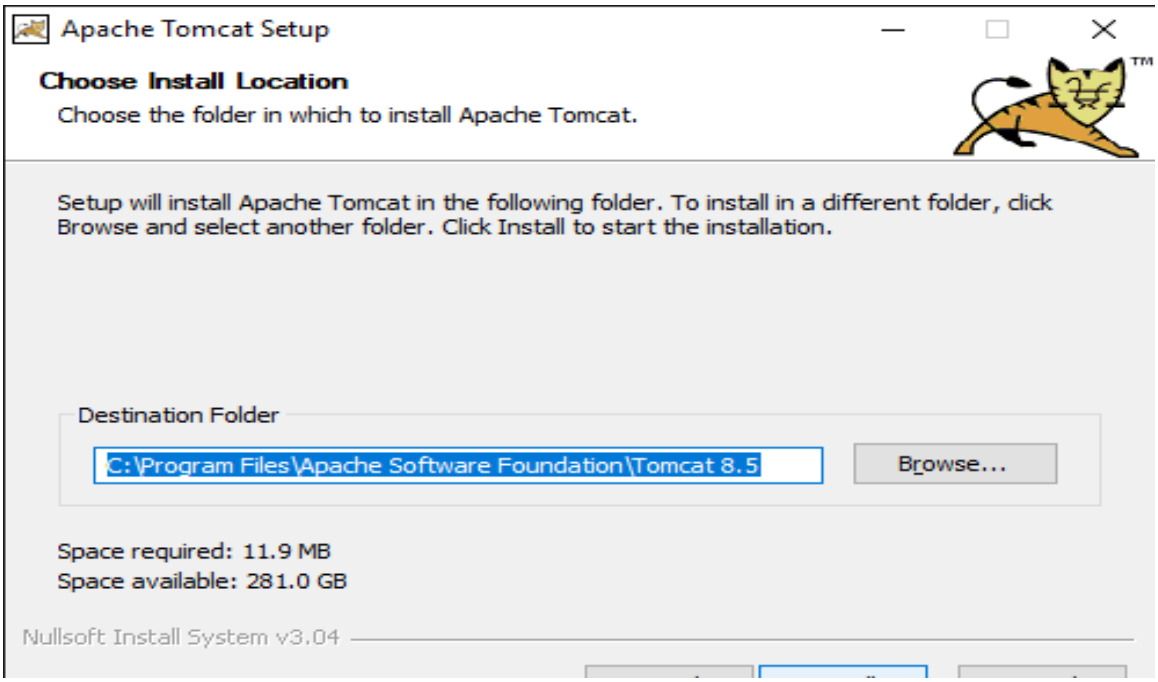
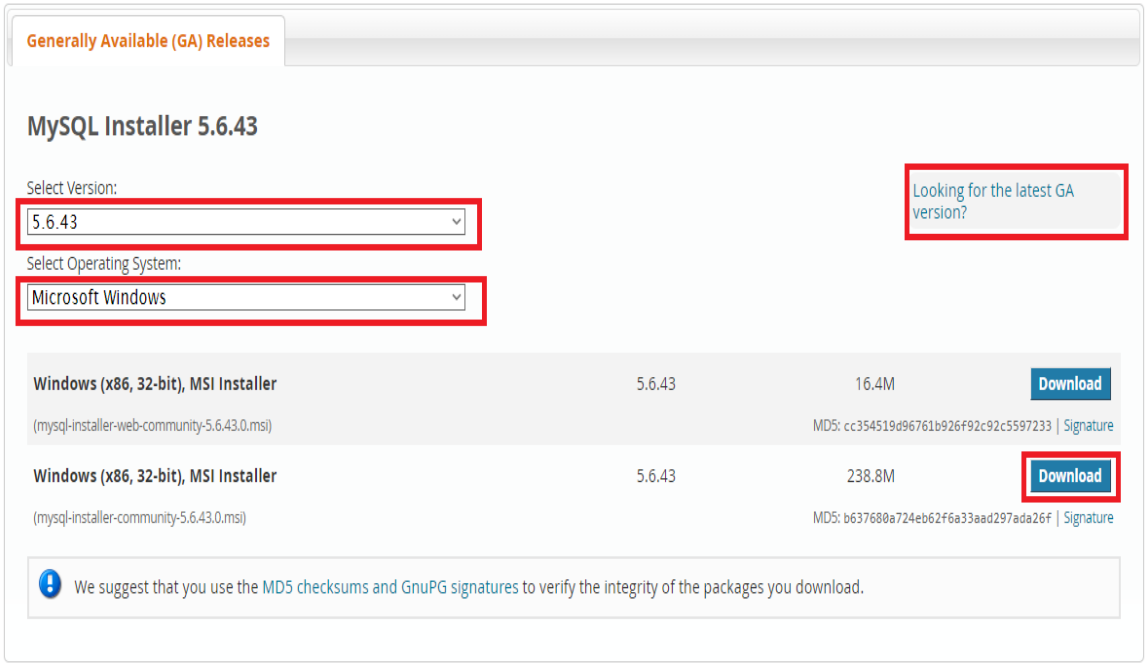
Select the type of install:
Normal
Or, select the optional components you wish to install:
Tomcat
Start Menu Items
Documentation
Manager
Host Manager
Examples
Description
Position your mouse over a component to see its description.
Space required: 11.9 MB
Nullsoft Install System v3.04


Apache Tomcat Setup
Choose Install Location
Choose the folder in which to install Apache Tomcat.
Setup will install Apache Tomcat in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder
C:\Program Files\Apache Software Foundation\Tomcat 8.5
Browse...
Space required: 11.9 MB
Space available: 281.0 GB
Nullsoft Install System v3.04

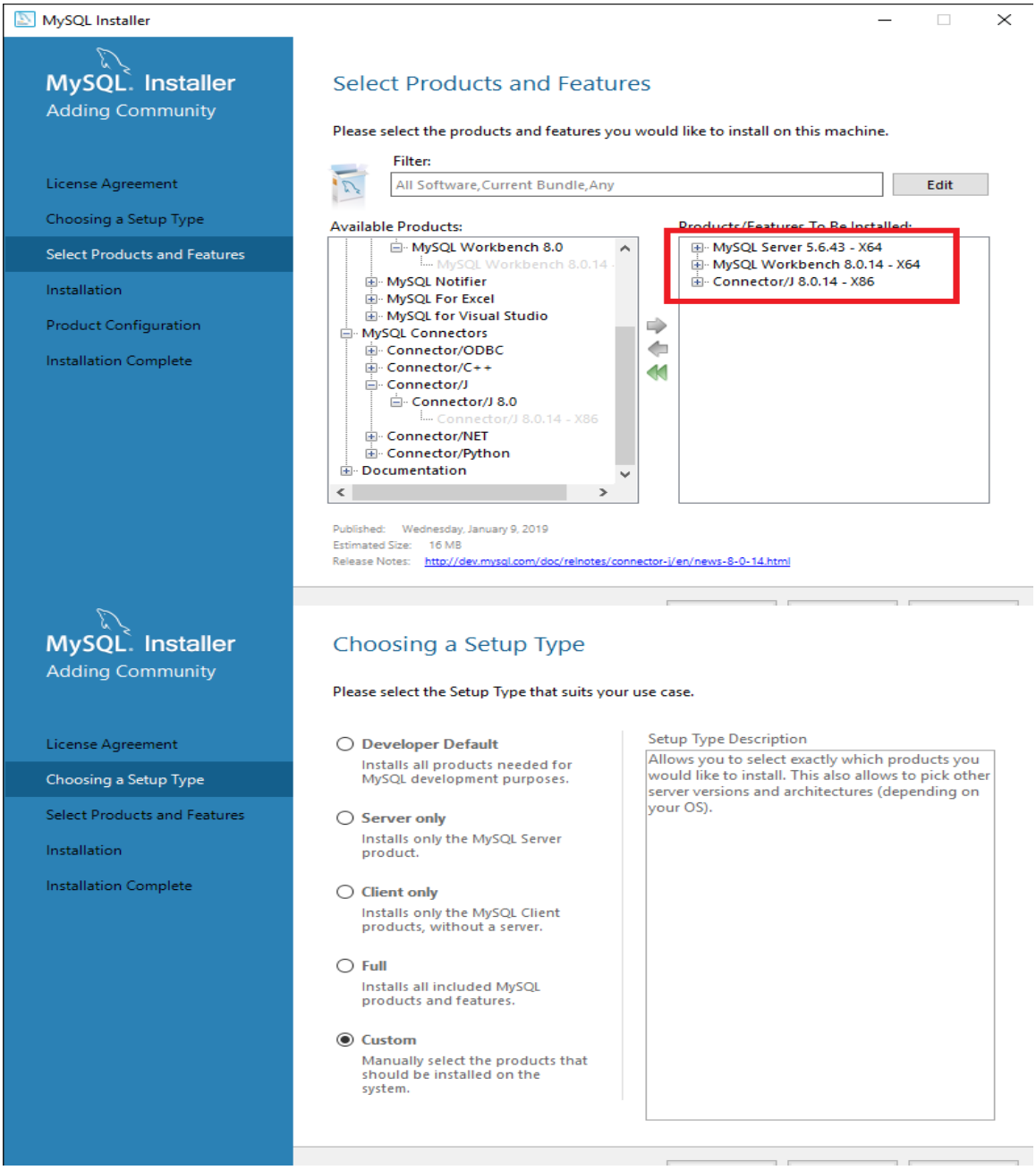
3. MySQL 5.6

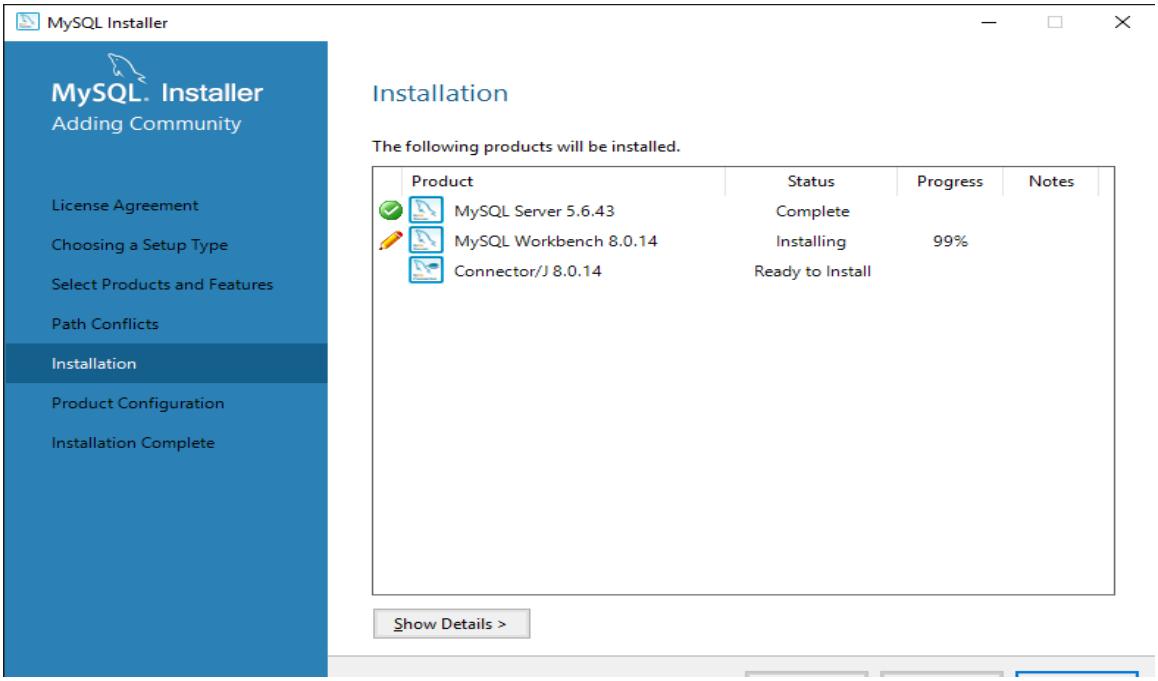
a. Download MySQL 5.6

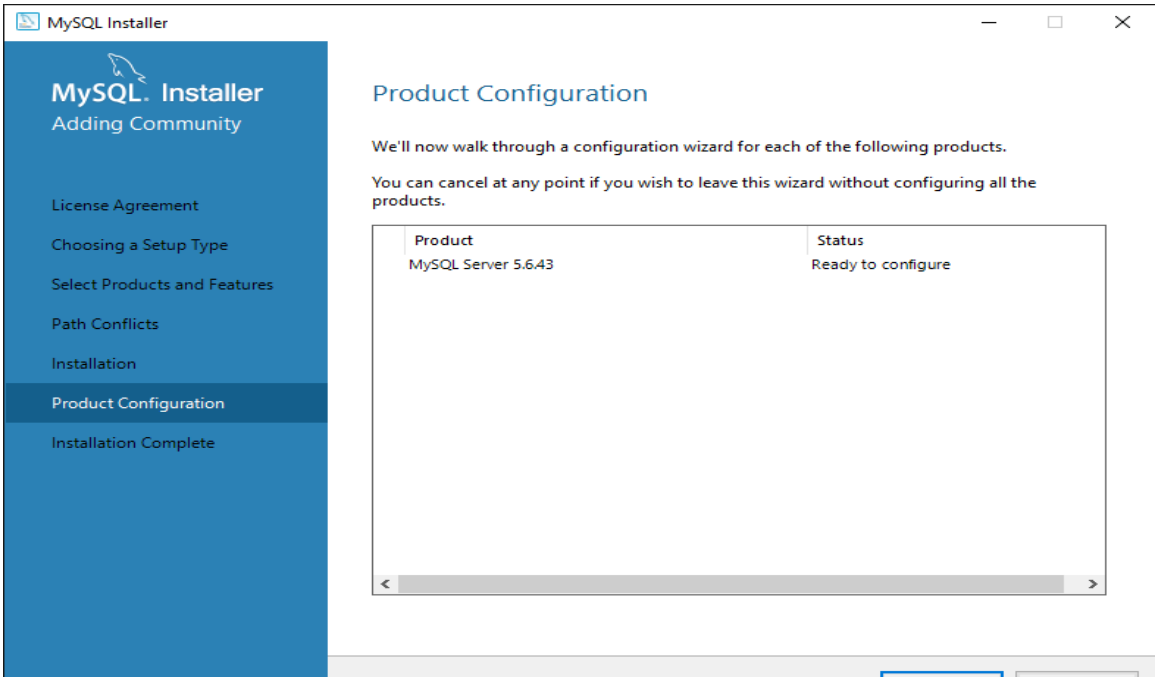
https://dev.mysql.com/downloads/windows/installer/8.0.html

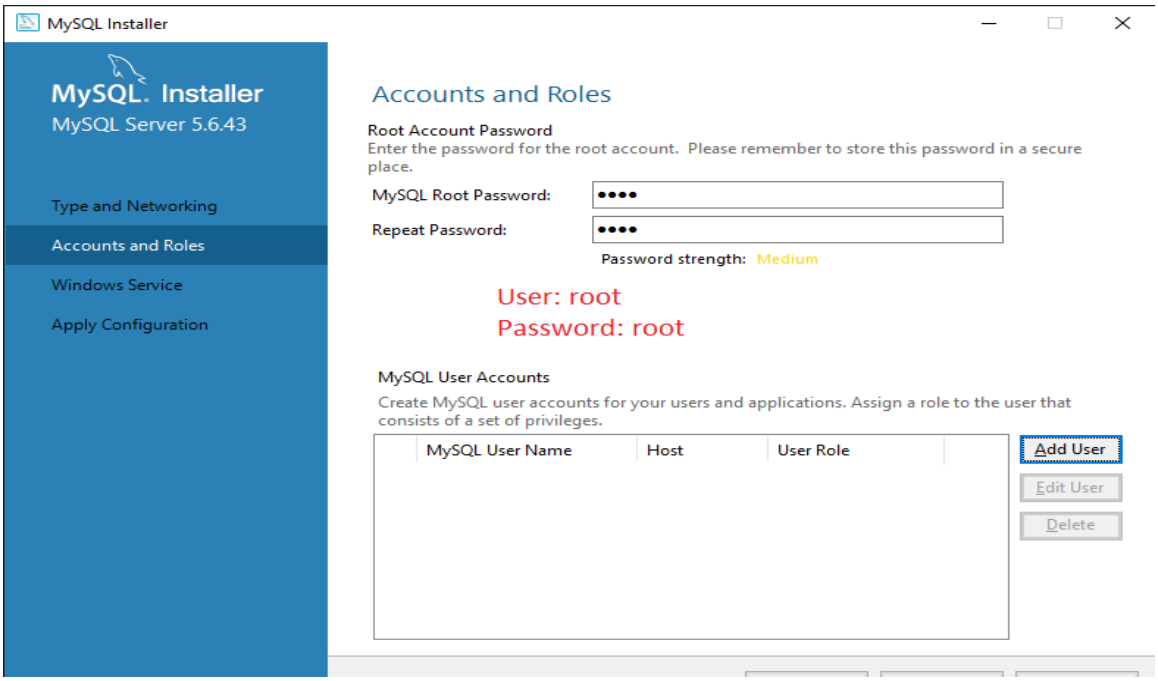


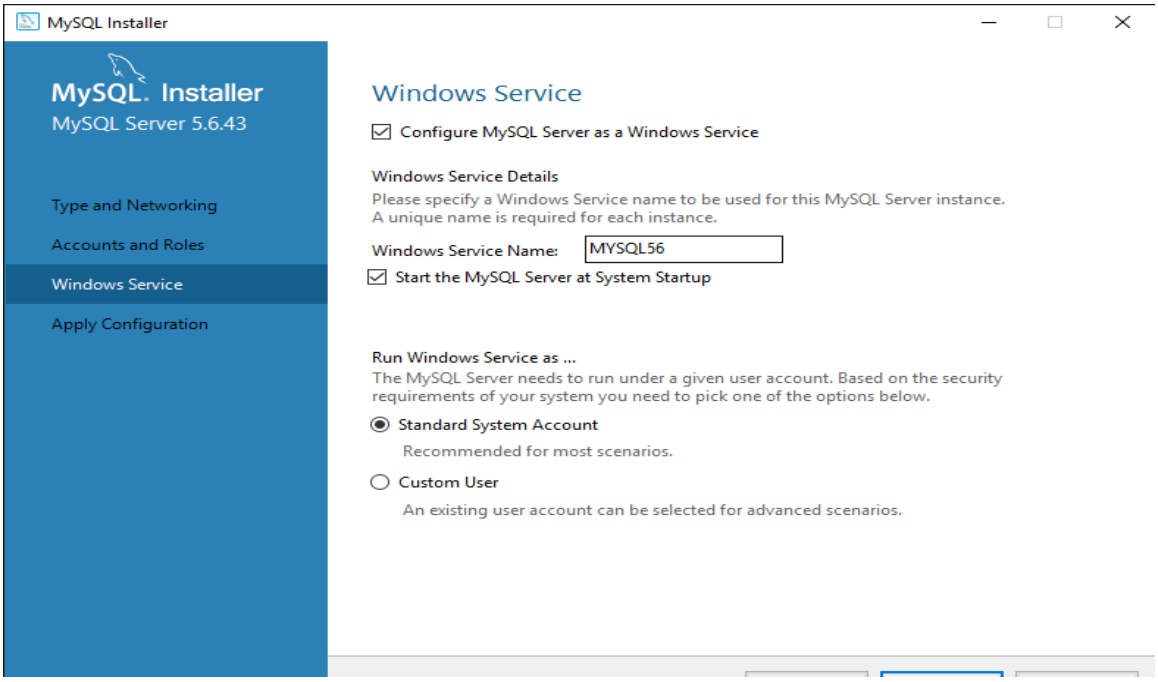
b. Run the Installation

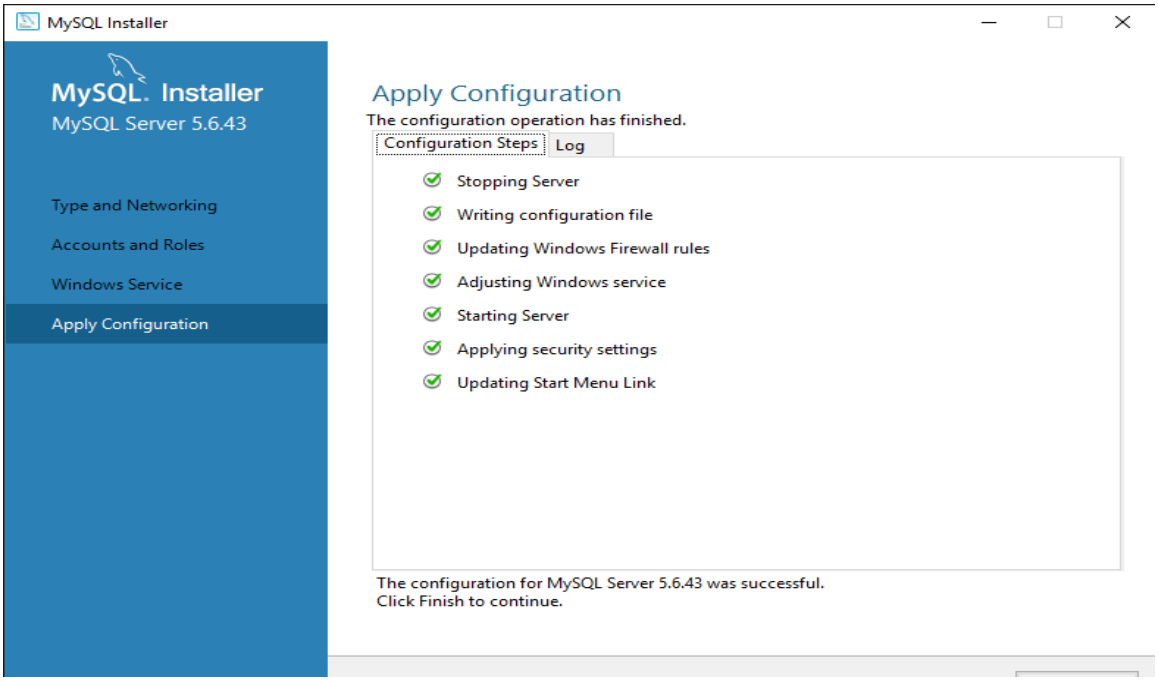



MySQL Installer
MySQL. Installer
Adding Community
License Agreement
Choosing a Setup Type
Select Products and Features
Path Conflicts
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Status
Progress
Notes
MySQL Server 5.6.43
Complete
MySQL Workbench 8.0.14
Installing
99%
Connector/J 8.0.14
Ready to Install
Show Details >


MySQL Installer
MySQL. Installer
Adding Community
License Agreement
Choosing a Setup Type
Select Products and Features
Path Conflicts
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.6.43
Ready to configure


MySQL Installer
MySQL. Installer
MySQL Server 5.6.43
Type and Networking
Accounts and Roles
Windows Service
Apply Configuration
Accounts and Roles
Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.
MySQL Root Password:
Repeat Password:
Password strength: Medium
User: root
Password: root
MySQL User Accounts
Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.
MySQL User Name
Host
User Role
Add User
Edit User
Delete

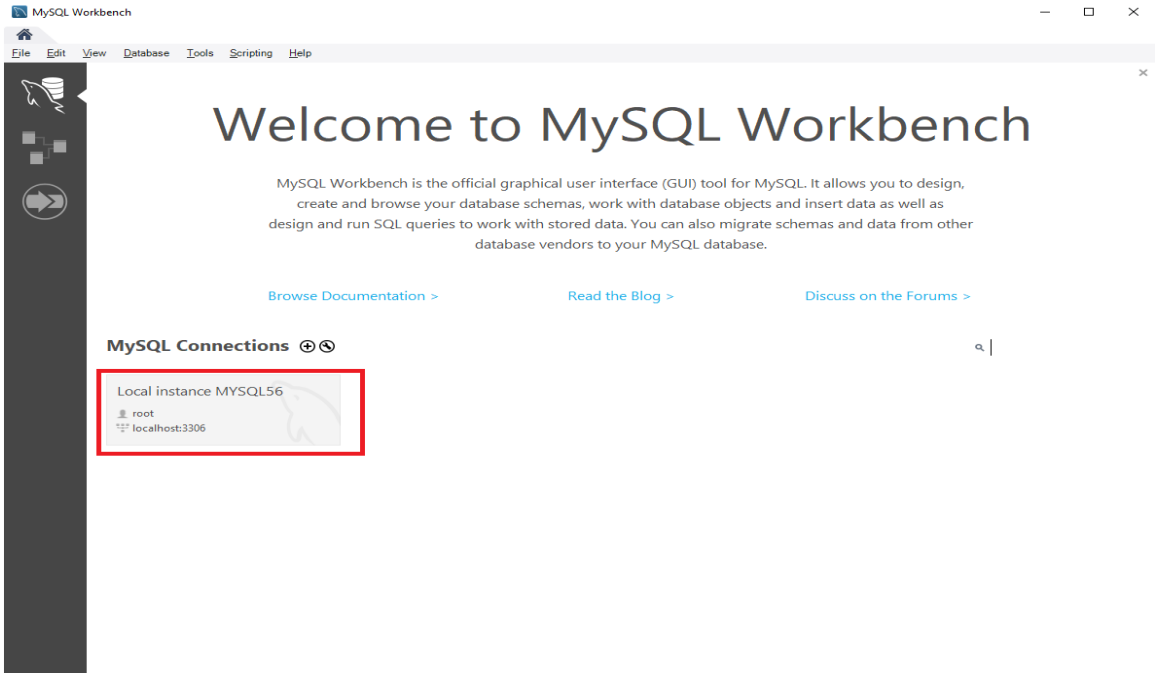

MySQL Installer
MySQL. Installer
MySQL Server 5.6.43
Type and Networking
Accounts and Roles
Windows Service
Apply Configuration
Windows Service
Configure MySQL Server as a Windows Service
Windows Service Details
Please specify a Windows Service name to be used for this MySQL Server instance.
A unique name is required for each instance.
Windows Service Name:
MYSQL56
Start the MySQL Server at System Startup
Run Windows Service as ...
The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.
Standard System Account
Recommended for most scenarios.
Custom User
An existing user account can be selected for advanced scenarios.



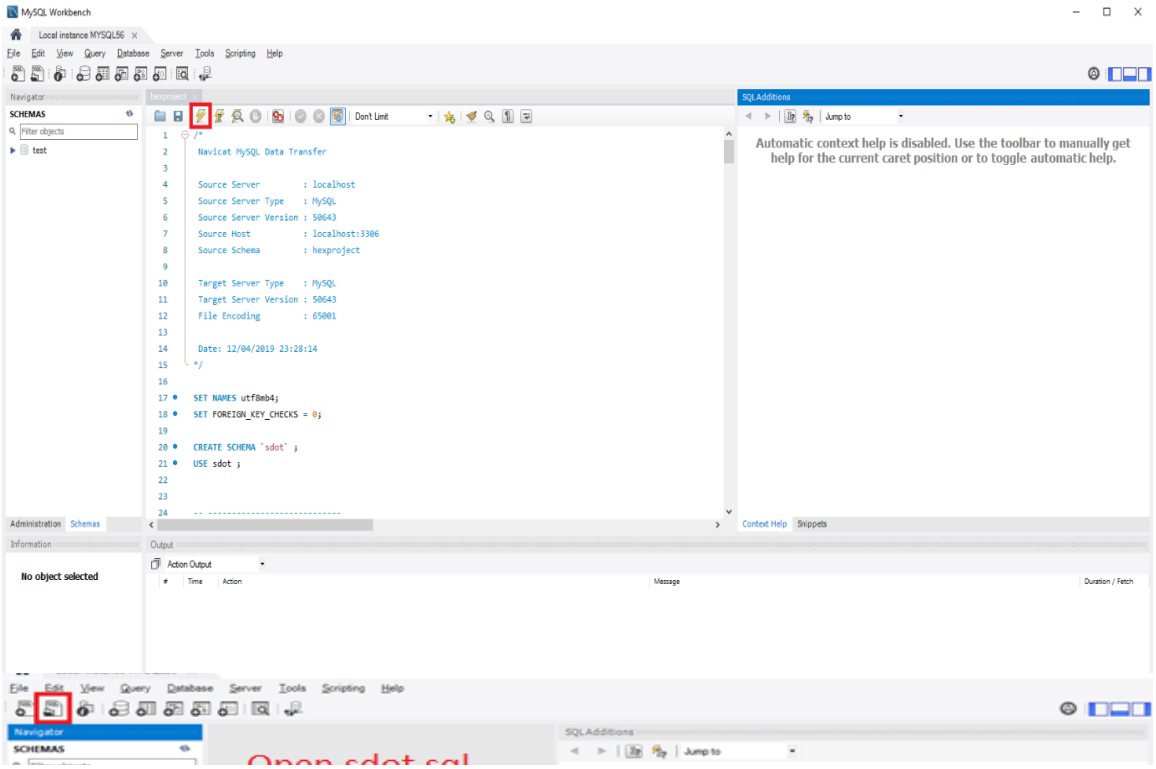
4. Initialize the DB Tables

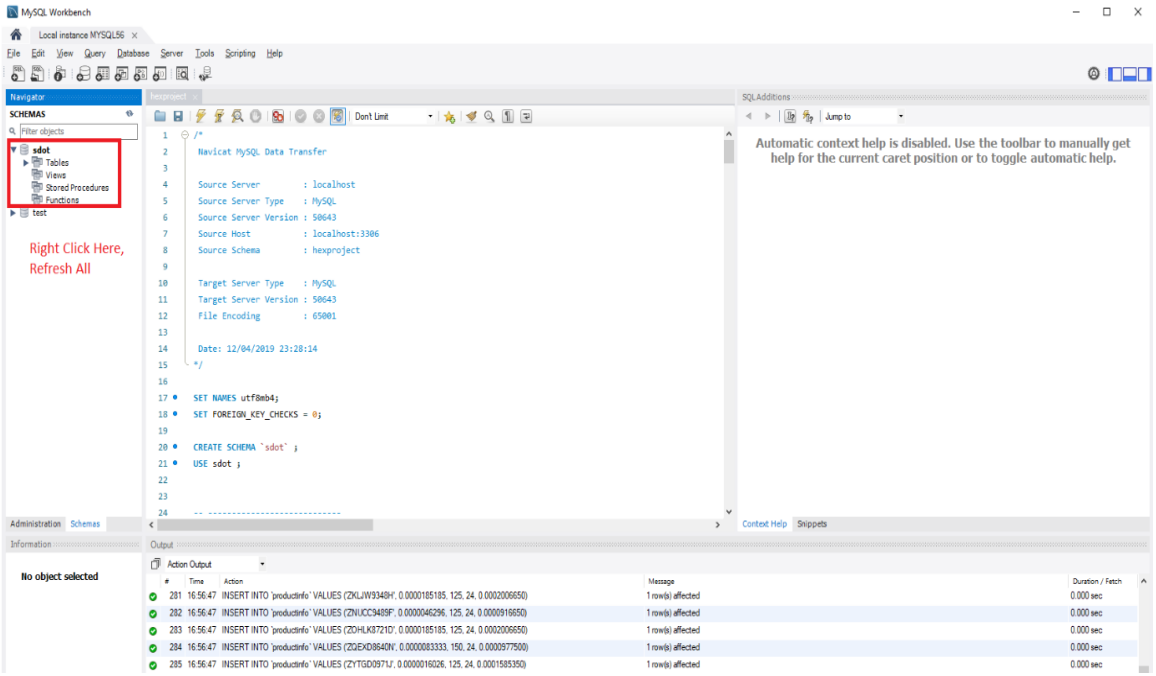
a. Open MySQL Workbench and SQL script

https://github.com/teamHexMtech/IRS-RS-2019-03-09-IS01PT-GRP-Hex-Sdot_Scheduling_and_Dispatch_Optimization_Tool/blob/master/Miscellaneous/sdot.sql



b. Execute the Script





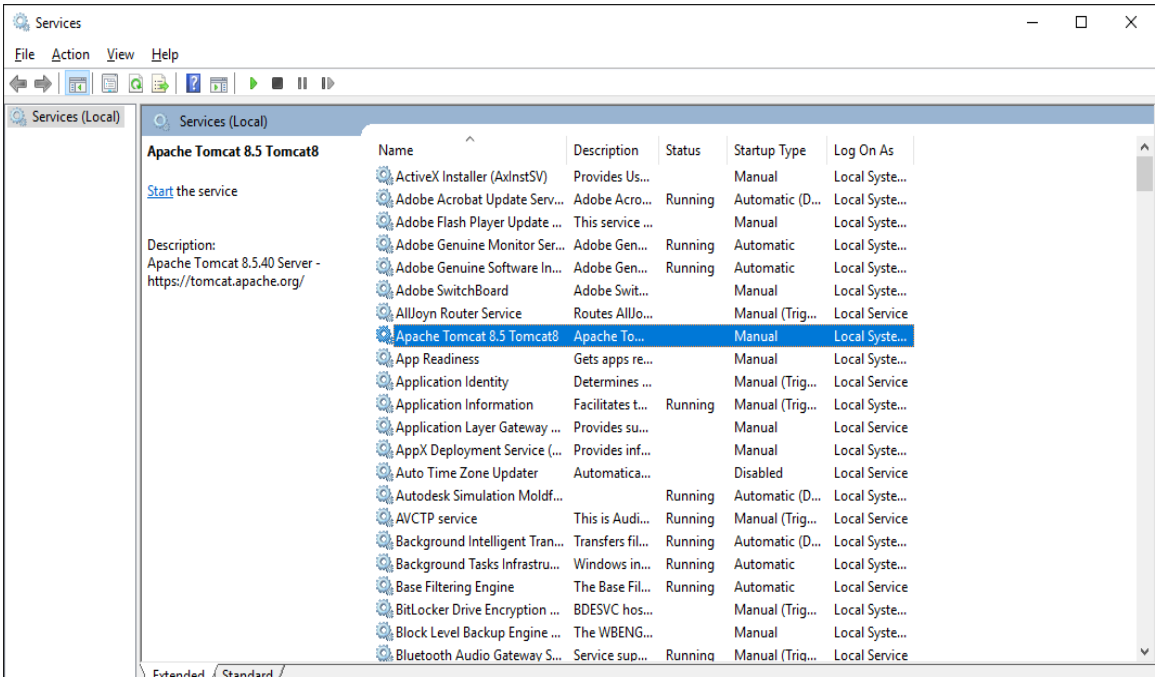
5. Deploy the Project Package WAR

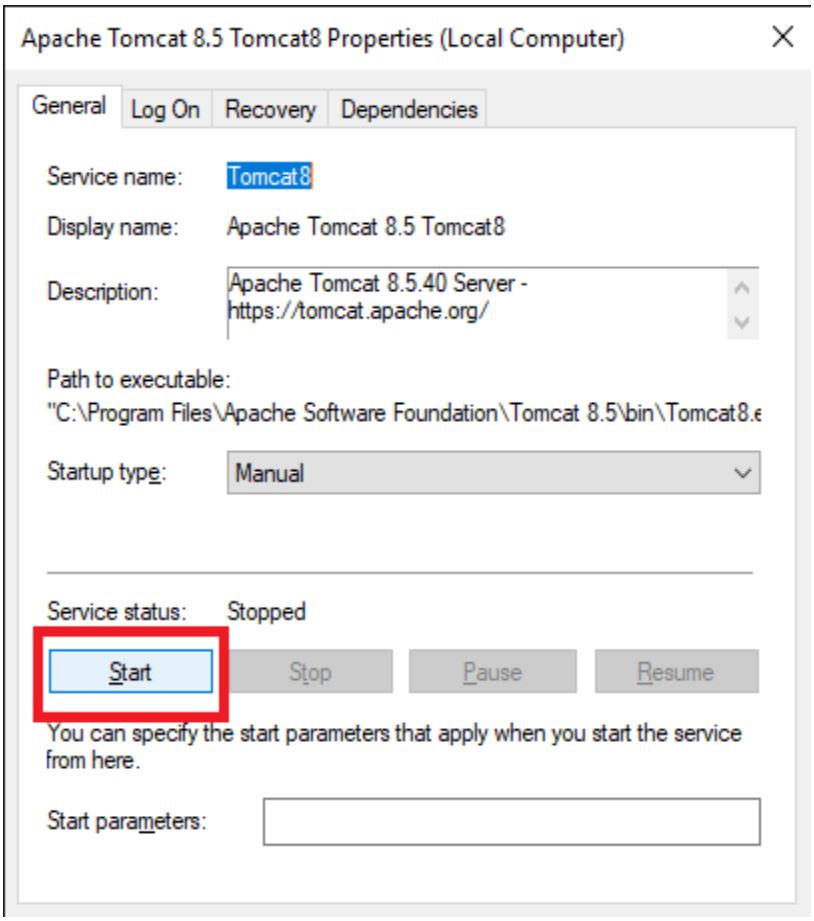
a. Copy Sdot.WAR into C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps

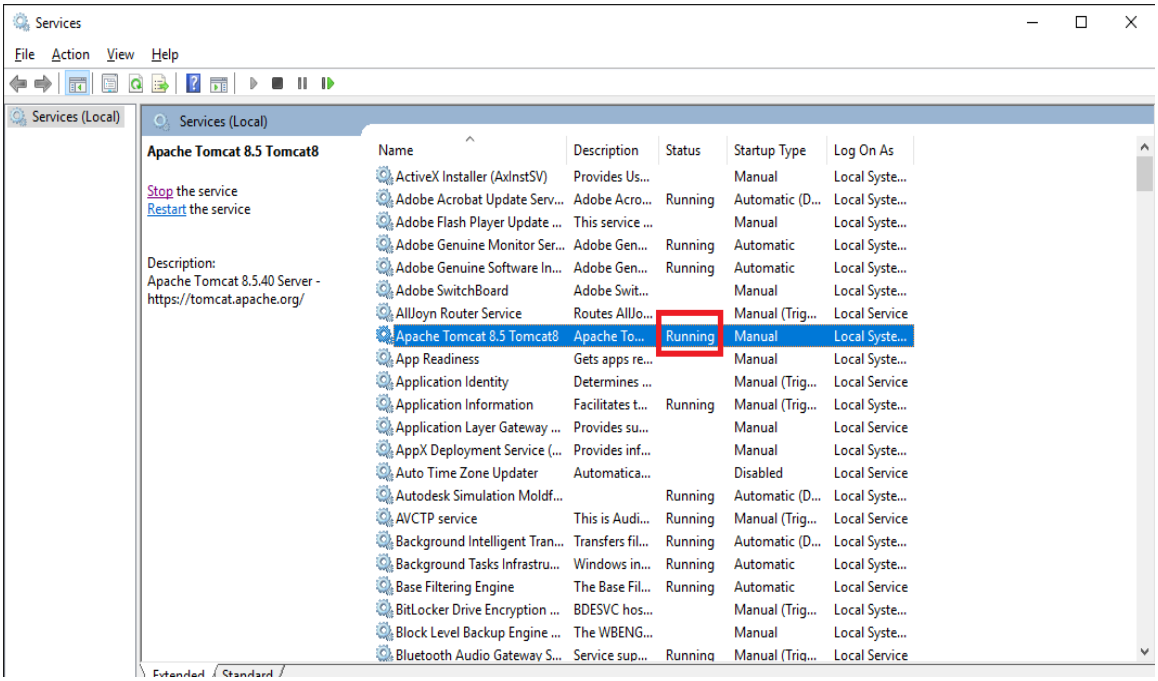
https://github.com/teamHexMtech/IRS-RS-2019-03-09-IS01PT-GRP-Hex-Sdot_Scheduling_and_Dispatch_Optimization_Tool/blob/master/Miscellaneous/Sdot.war

6. Start the Service

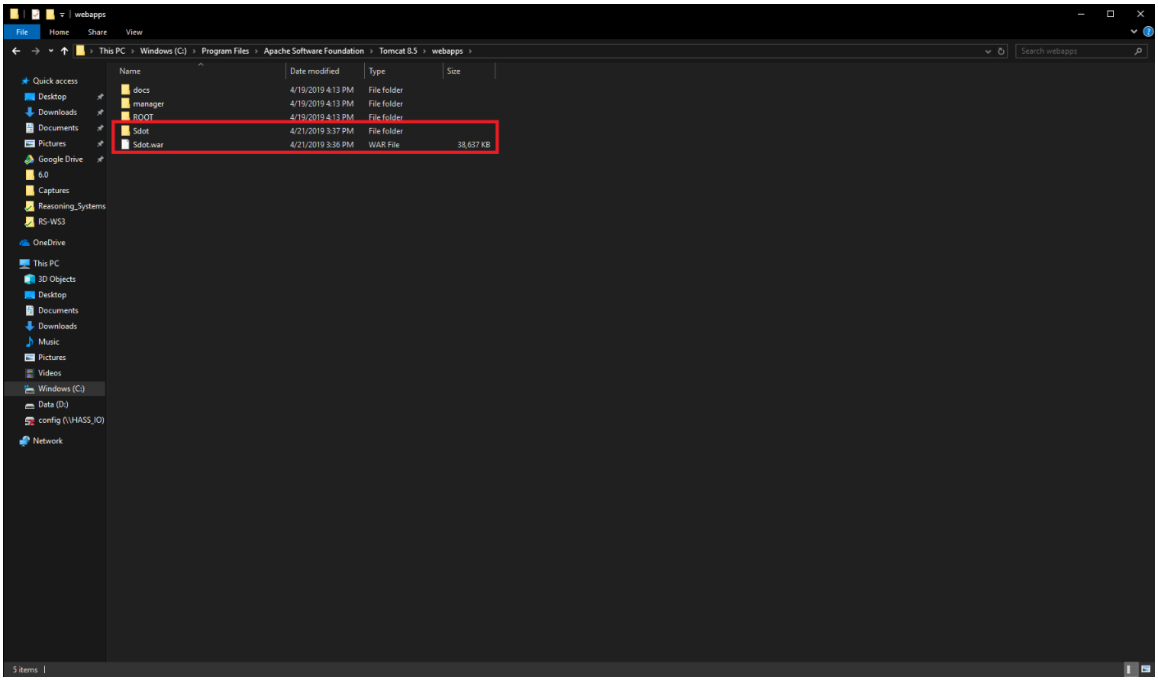
a. Press Windows + R, Run Services.msc, start the tomcat service




Apache Tomcat 8.5 Tomcat8 Properties (Local Computer)
General
Log On
Recovery
Dependencies
Service name:
Tomcat8
Display name:
Apache Tomcat 8.5 Tomcat8
Description:
Apache Tomcat 8.5.40 Server - https://tomcat.apache.org/
Path to executable:
"C:\Program Files\Apache Software Foundation\Tomcat 8.5\bin\Tomcat8.e
Startup type:
Manual
Service status:
Stopped
Start
Stop
Pause
Resume
You can specify the start parameters that apply when you start the service from here.
Start parameters:


Services
File
Action
View
Help
Services (Local)
Apache Tomcat 8.5 Tomcat8
Stop the service
Restart the service
Description:
Apache Tomcat 8.5.40 Server - https://tomcat.apache.org/
Name
Description
Status
Startup Type
Log On As
ActiveX Installer (AxInstSV) Provides Us... Manual Local Syste...
Adobe Acrobat Update Serv... Adobe Acro... Running Automatic (D... Local Syste...
Adobe Flash Player Update ... This service ... Manual Local Syste...
Adobe Genuine Monitor Ser... Adobe Gen... Running Automatic Local Syste...
Adobe Genuine Software In... Adobe Gen... Running Automatic Local Syste...
Adobe SwitchBoard Adobe Swit... Manual Local Syste...
AllJoyn Router Service Routes AllJo... Manual (Trig... Local Service
Apache Tomcat 8.5 Tomcat8 Apache To... Running Manual Local Syste...
App Readiness Gets apps re... Manual Local Syste...
Application Identity Determines ... Manual (Trig... Local Service
Application Information Facilitates t... Running Manual (Trig... Local Syste...
Application Layer Gateway ... Provides su... Manual Local Service
AppX Deployment Service (... Provides inf... Manual Local Syste...
Auto Time Zone Updater Automatica... Disabled Local Service
Autodesk Simulation Moldf... Running Automatic (D... Local Syste...
AVCTP service This is Audi... Running Manual (Trig... Local Service
Background Intelligent Tran... Transfers fil... Running Automatic (D... Local Syste...
Background Tasks Infrastru... Windows in... Running Automatic Local Syste...
Base Filtering Engine The Base Fil... Running Automatic Local Service
BitLocker Drive Encryption ... BDESVC hos... Manual (Trig... Local Syste...
Block Level Backup Engine ... The WBENG... Manual Local Syste...
Bluetooth Audio Gateway S... Service sup... Running Manual (Trig... Local Service
Extended
Standard

b. Check if Sdot.war Folder is created in C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps

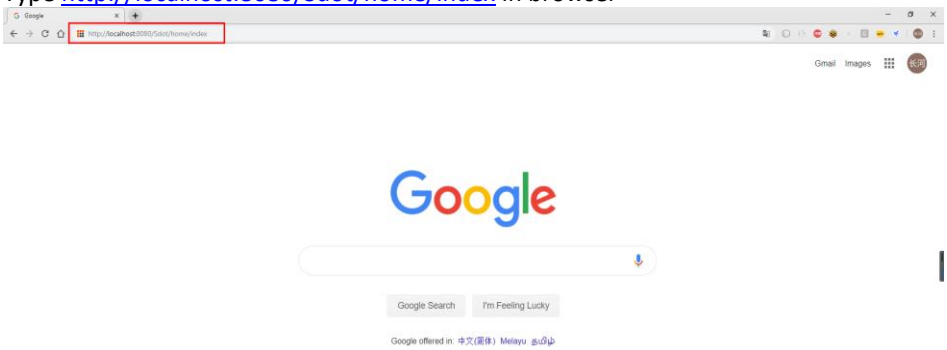


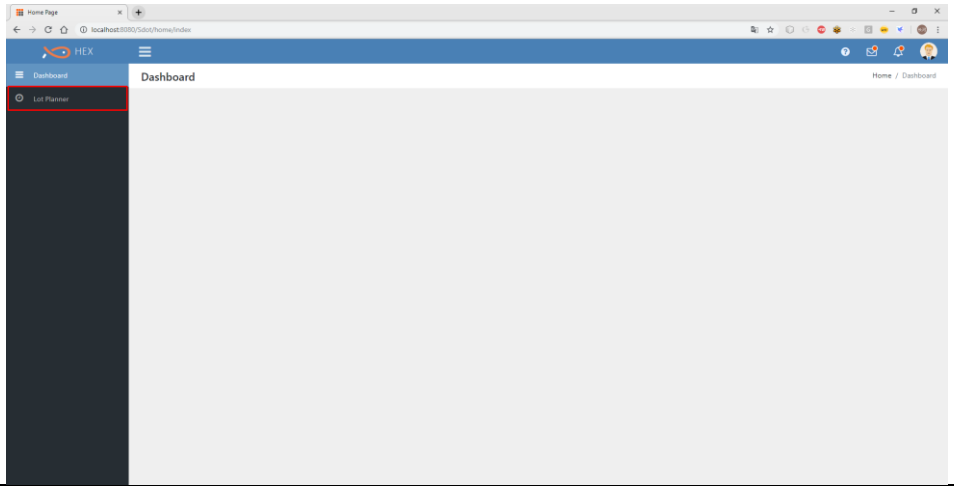
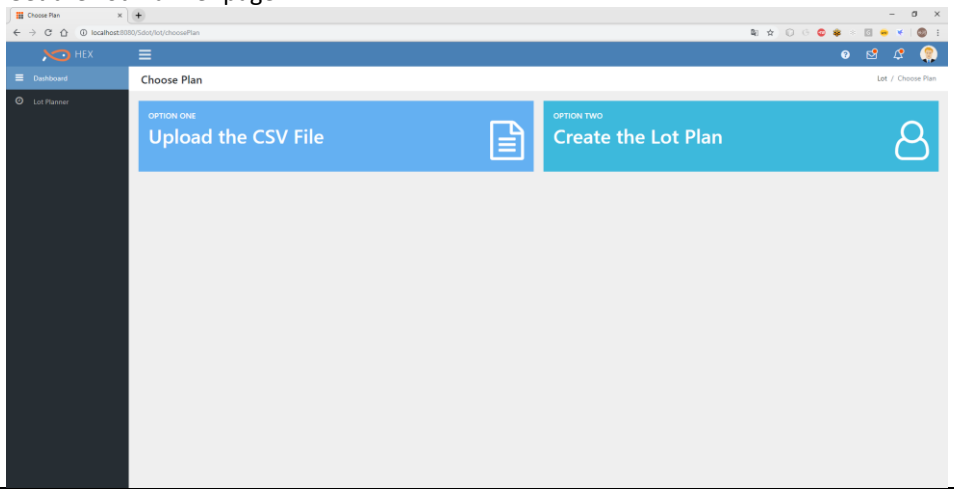
c. Wait for about 5 minutes, then go to this link: http://localhost:8080/Sdot/home/index

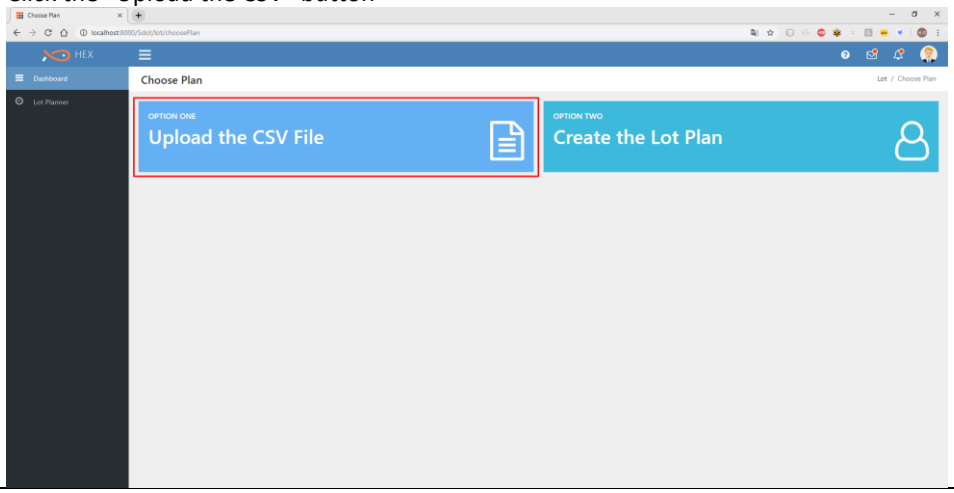
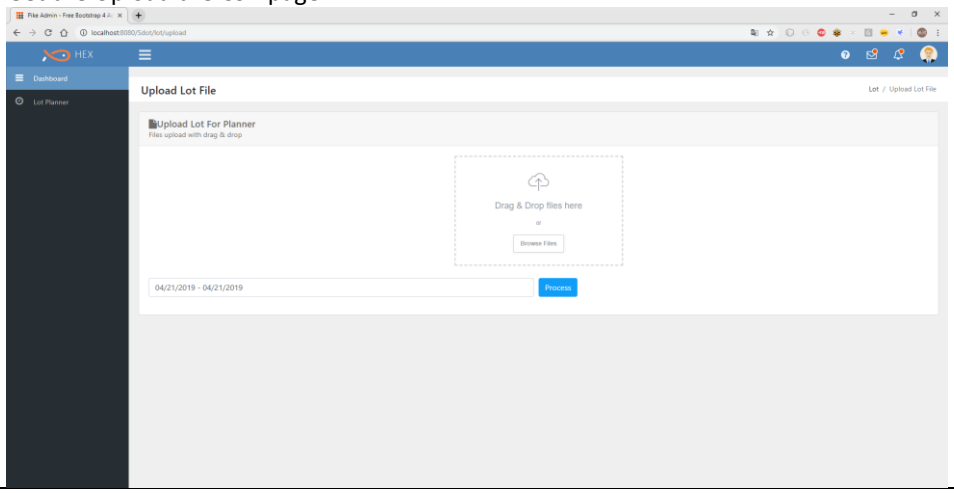
d. Go to Java Folder and Give Full Access Permission

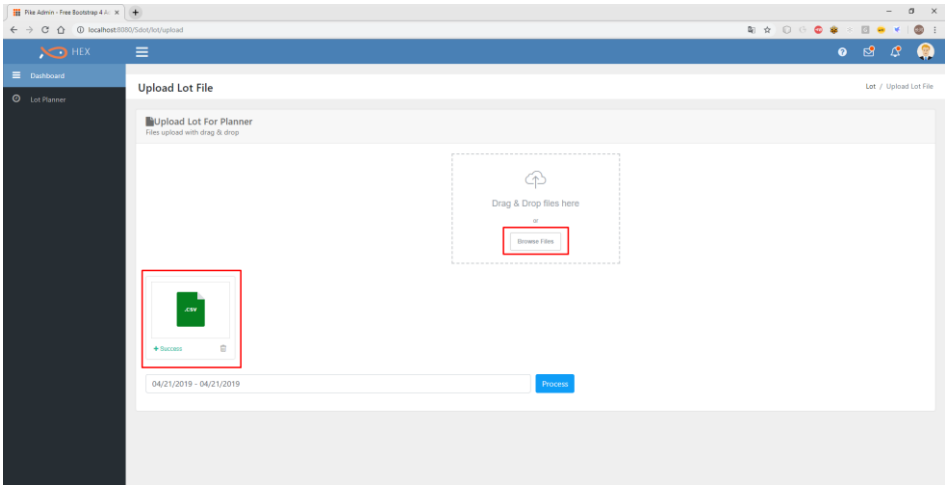
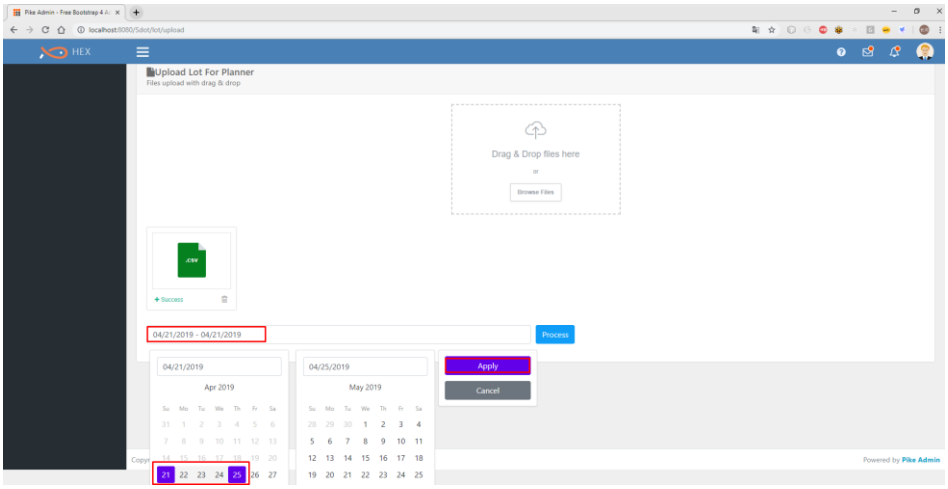
Goto C:\Program Files\ Right click Java folder, click properties. Select the security tab.
There, click on "Edit" button, which will pop up PERMISSIONS FOR JAVA window.
In "PERMISSIONS OF JAVA" window, you will see several clickable options like CREATOR OWNER, SYSTEM, among them is your username. Click on it, and check mark the FULL CONTROL option in Permissions for sub window.
Hit apply and ok.

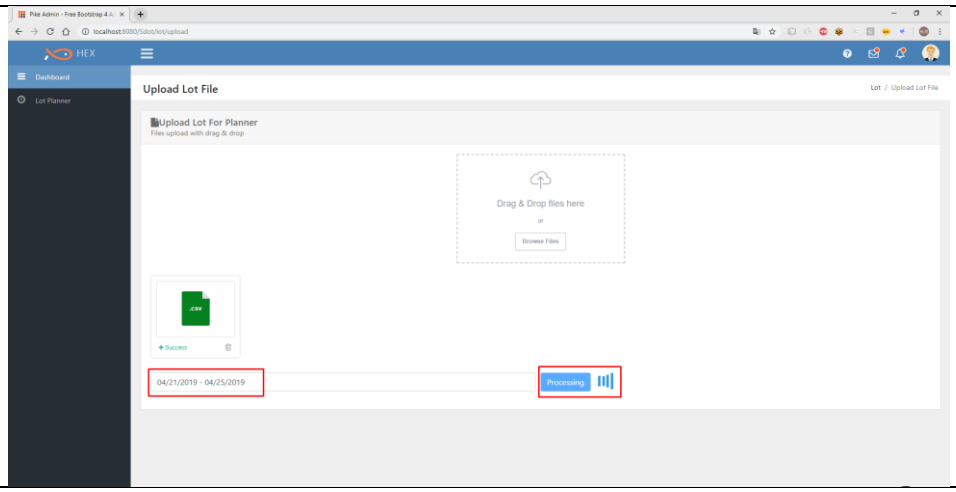
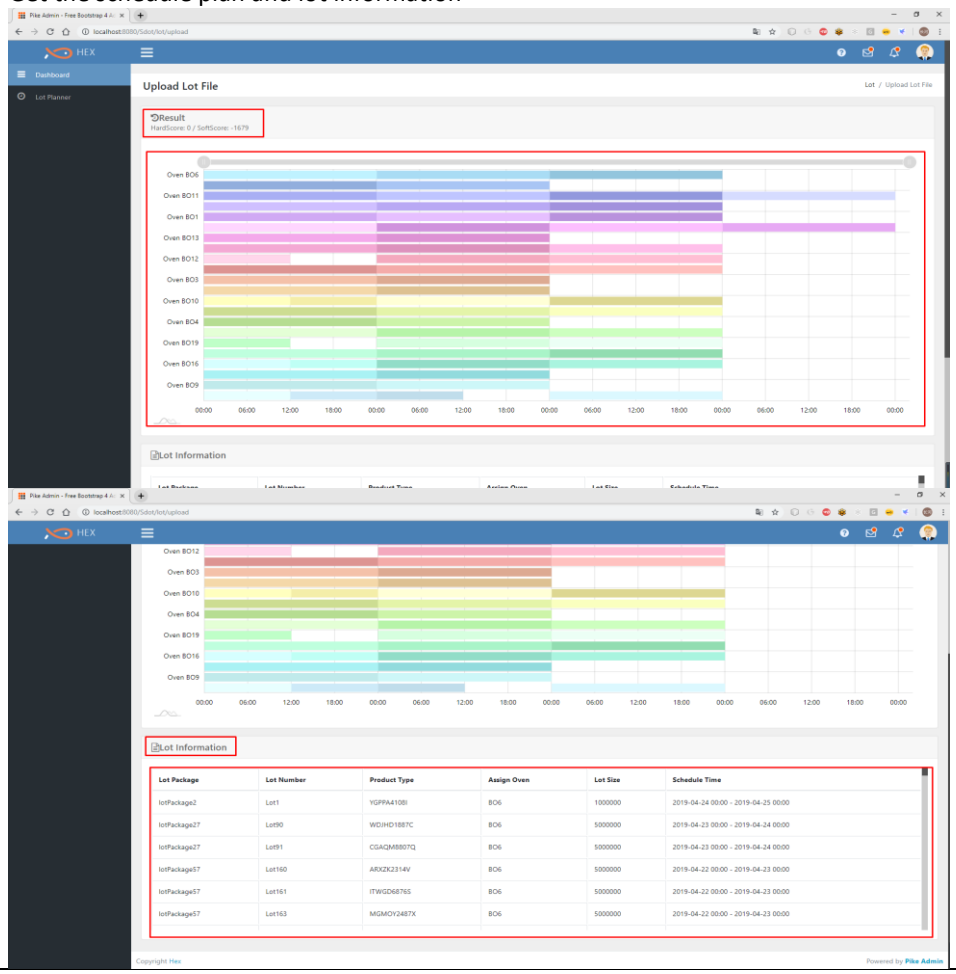
Test Scenario

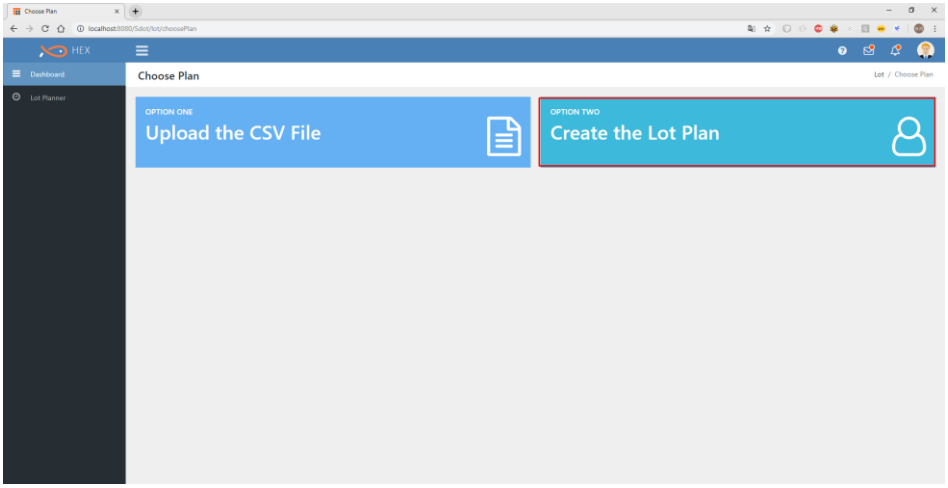
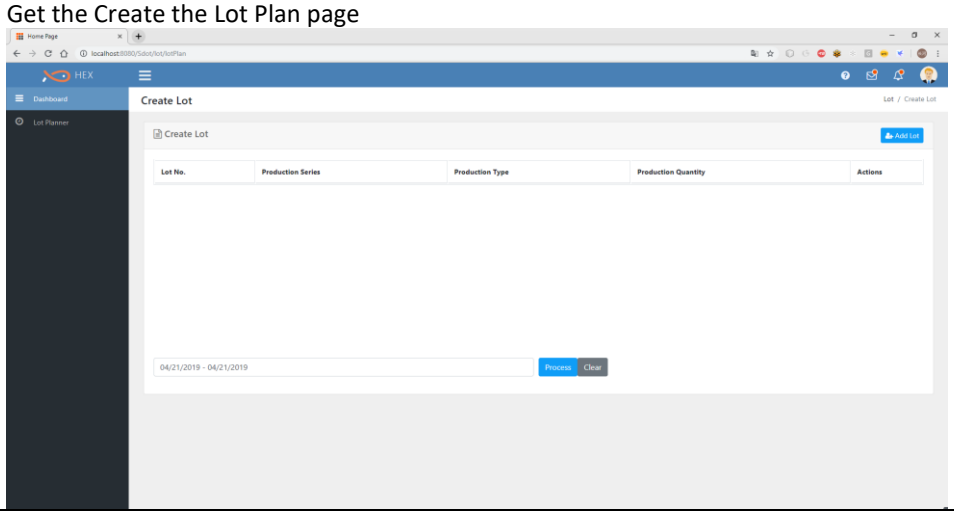
Test Case 1	Login the Home page
User Input	Type http://localhost:8080/Sdot/home/index in browser 
System out put	Get the home page of the system

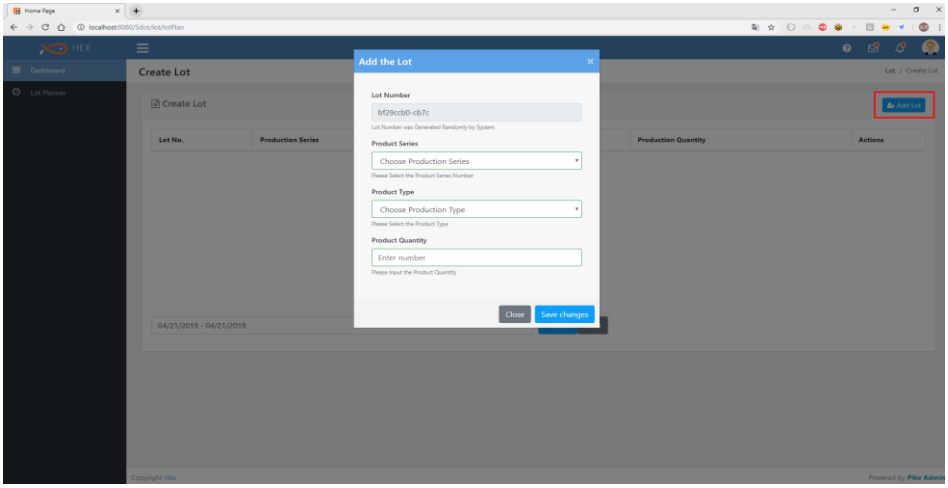
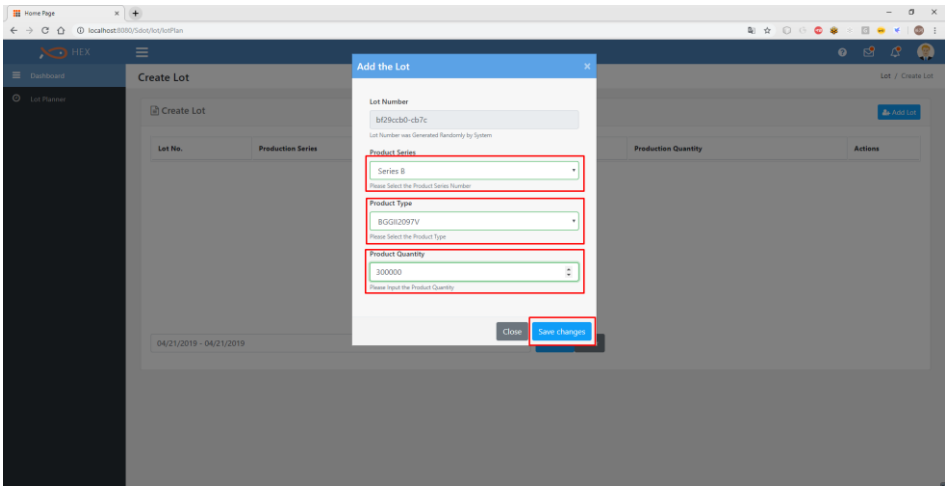
Test Case 2	Navigate to Lot Planner Page
User Input	Click the “Lot Planner” on the left side menu 
System out put	Get the Lot Planner page 

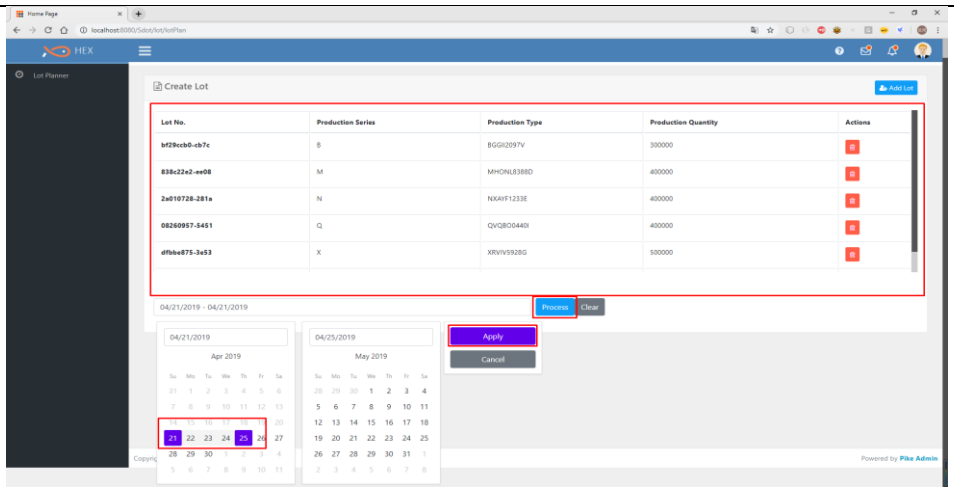
Test Case 3	Navigate to Upload CSV Page
User Input	Click the “Upload the CSV” button 
System out put	Get the Upload the CSV page 

Test Case 4	Upload Test csv file and schedule the lot plan
User Input	1. Drag the file or click “Browse files” to upload the csv file  2. Click the date picker and select plan date  3. Click the “Process” button and wait for result (one minute)

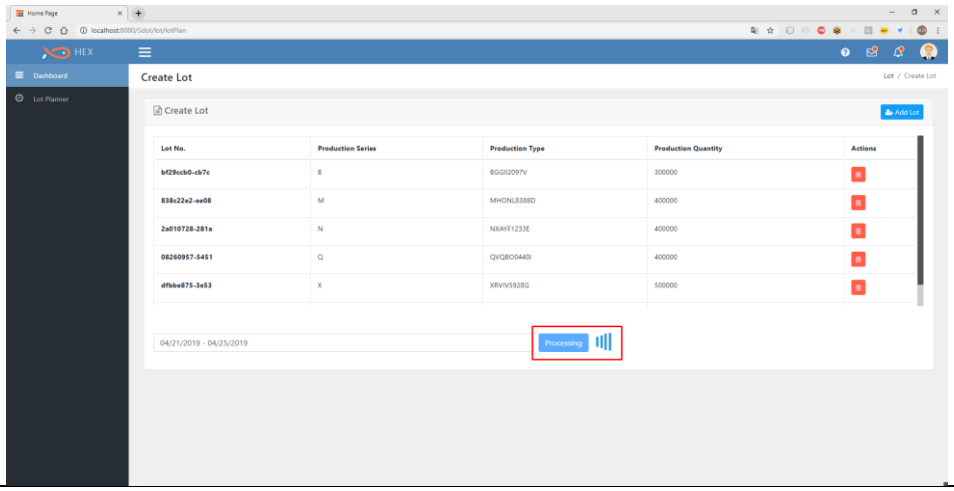
	
System out put	Get the schedule plan and lot information 

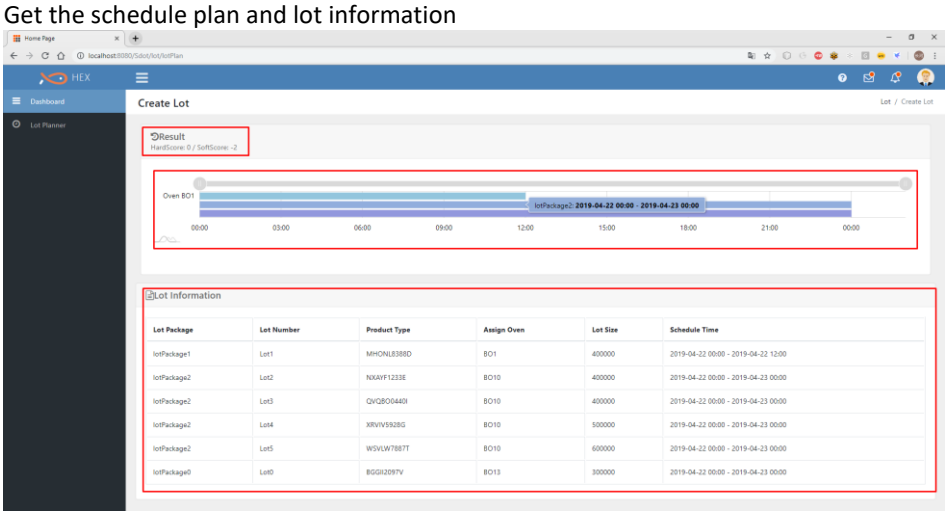
Test Case 5	Navigate to Create Lot Page
User Input	Click the “Create the Lot Plan” button 
System out put	Get the Create the Lot Plan page 

Test Case 6	Create Lot manually and schedule the lot plan
User Input	1. Click “Add Lot” button  2. Fill in the lot information and click “Save Changes” button  3. Repeat step 2 and choose the plan date



4. Click “Process” button and wait for result (around one minute)



System out put

Get the schedule plan and lot information