School Management System:

Technical Documentation

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# Scope of the document

This document aims to provide instructions and guidelines on the technical aspects of **School Management System**  project.

# Development Environment Setup

In order to set up the project you will need to follow the steps below:

## 1/ Java JDK 8 (**64bit**)

Download and install Java JDK 8 (**64bit**) from the link

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

## 2/ Eclipse STS (**64bit**)

1. Download and extract Eclipse STS to c:/sts from <http://download.springsource.com/release/STS/3.9.5.RELEASE/dist/e4.8/spring-tool-suite-3.9.5.RELEASE-e4.8.0-win32-x86_64.zip>
2. Create a folder in c:/School\_Management\_System
3. Run Eclipse STS.
4. Use c:/workspace as default workspace.

## 3/ MySQL 8 (**64bit**)

Download and install MySQL community server 8 (**64bit**) from the link

<https://dev.mysql.com/downloads/mysql/>

## 4/Import project and Git repository

The project source code is hosted on Github under the URL below:

<https://github.com/JalalSordo/school-management-system>

**Note**:

Up to the moment when this document was written one branch have existed:

master (main stream of the development )

1. In eclipse STS click **File> Import…**
2. In the new Window Select **Git> Projects from Git** and click **Next.**
3. Select **Clone URI** and click **Next.**
4. Paste the Git repository URL above in **URI Field**.
5. Select **master** branch click **Next**.
6. In the Destination/Directory use c:/School\_Management\_System
7. Keep **remote name** as **origin** and click **Next**.
8. Select Import as **general project** click **Next**.
9. In this last window you can define a **name** for the project (If you are targeting a specific branch it is recommended to append the branch name to the **name of the project** e.g.: *ticket-easy-branchName*), click **Next**.(Actually there’s just master branch so far , so append it).
10. Now in the Eclipse Projects tree (far left) right click on the newly imported *School Management System* project.
11. Select **Configure**> C**onvert to Maven project**
12. Now you can use the table below to create *eclipse run configurations* to automate the build process for a specific target OS and architecture.

## 5/Eclipse Run Configurations:

In order to create a run configuration please follow the steps below:

1. Right click on select **Run As > Maven Build…**
2. Now use the **table below** to create the 4 run configurations.
3. For **Name** use **Run** **Configuration Name** from the table below**.**
4. For **Goals** use **Goals** from the table below**.**
5. Click **Apply.**
6. Click **Run** to execute the run configuration.

|  |  |  |  |
| --- | --- | --- | --- |
| Operating System | Architecture | Run Configuration Name | Goals |
| Windows | 64 | ticket-easy (win64 build) | clean package -Darch=win64 |
|  | 32 | ticket-easy (win32 build) | clean package -Darch=win32 |
| Mac | 64 | ticket-easy (mac64 build) | clean package -Darch=mac64 |
|  | 32 | ticket-easy (mac32 build) | clean package -Darch=mac32 |