## Installation Guide

### Setting up environment at server side

The specifications are based on the dependencies requirements and performance test result from previous section of this document.

#### Hardware requirement

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| --- | --- |
| Hardware | Specification |
| Internet Connection | 8 Mbps |
| Computer Processor | Intel® Core(TM) i5 CPU , M 460 @ 2.53GHz |
| Computer Memory | 4GB of RAM or more |
| Hard Disk Drive | 40GB or more |

*Table 127: Installation Guide - Hardware Requirement*

#### Software requirement

|  |  |
| --- | --- |
| Software | Application name / version |
| Operating System | Ubuntu Server 14.04.2 LTS |
| Java | 1.7.0\_79 |
| DBMS | MYSQL 5.6 |

*Table 128: Installation Guide - Software Requirement*

### Web Application Deployment Process

#### Check environment

Check Ubuntu version: 14.04.2 LTS

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| --- |
| root@HSTS:~# **lsb\_release -a**  No LSB modules are available.  Distributor ID: Ubuntu  Description: Ubuntu 14.04.2 LTS  Release: 14.04  Codename: trusty |

Check Java version: 1.7.0\_79

|  |
| --- |
| root@HSTS:~# **java -version**  java version "1.7.0\_79"  OpenJDK Runtime Environment (IcedTea 2.5.6) (7u79-2.5.6-0ubuntu1.14.04.1)  OpenJDK 64-Bit Server VM (build 24.79-b02, mixed mode) |

Check MySQL version: 5.6

|  |
| --- |
| root@HSTS:~# **mysql --version**  mysql Ver 14.14 Distrib 5.6.19, for debian-linux-gnu (x86\_64) using EditLine wrapper |

#### Import Database

Using file database.sql located under Deployment directory from this document.

|  |
| --- |
| root@HSTS:~# **mysql -u root -p hsts < database.sql** |

#### Build war artifact

Under **Source code/HSTS/src/main/resources/** directory, edit file **application.properties** and set correct MySQL username and password:

|  |
| --- |
| spring.datasource.username =**<enter username here>**  spring.datasource.password =**<enter password here>** |

Under **Source code** directory, run bellow command to build war artifact:

|  |
| --- |
| **mvn clean install** |

A **jar** artifact file will be created under **Source code /HSTS/target** directory, we will use this file for deployment.

#### Deploy war artifact

Using file **jar** built from previous step.

|  |
| --- |
| root@HSTS:~# java –jar hsts.jar |