## Installation Guide

### Setting up environment at server side

Bellows are requirements for hardware and software environment to run MIC system in 10 years. The specifications are based on the dependencies requirements and performance test result from previous section of this document.

#### Hardware requirements

|  |  |
| --- | --- |
| Hardware | Specification |
| Internet Connection | 8 Mbps |
| Computer Processor | Windows 7, 8 |
| Computer Memory | Intel® Core(TM) i5 CPU , M 460 @ 2.53GHz |
| Hard Disk Drive | 4GB of RAM or more |

Table Hardware requirements

#### Software requirements

|  |  |
| --- | --- |
| Software | Application name / version |
| Operating System | Windows 7, 8 |
| Java | 1.7.0\_79 |
| Database | MySQL 5.6 |

Table Software requirements

### Web Application Deployment Process

#### Check environment

Check Java version: 1.7.0\_79

|  |
| --- |
| C:\User\hsts> **java -version**  java version "1.7.0\_79"  Java(TM) SE Runtime Environment (build 1.7.0\_79-b51)  Java HotSpot(TM) 64-Bit Server VM (build 25.51-b02, mixed mode) |

Check MySQL version: 5.6

|  |
| --- |
| C:\User\dangquantran> **mysql --version**  mysql Ver 14.14 Distrib 5.6.25, for Win64 (x86\_64) |

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#### Import database

The database will be deployed automatically when the web application started. Therefore, we only create an empty database before. Open Command Prompt and execute these commands:

|  |
| --- |
| Microsoft Windows [Version 6.3.9600]  (c) 2013 Microsoft Corporation. All rights reserved.  **C:\Users\dangquantran>mysql -u root -p**  **Enter password:** \*\*\*\*  Welcome to the MySQL monitor. Commands end with ; or \g.  Your MySQL connection id is 14  Server version: 5.6.25-log MySQL Community Server (GPL)  Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.  Oracle is a registered trademark of Oracle Corporation and/or its  affiliates. Other names may be trademarks of their respective  owners.  Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  **mysql> drop schema if exists `hsts` \G;**  Query OK, 28 rows affected (0.58 sec)  ERROR:  No query specified  **mysql> create schema `hsts` \G;**  Query OK, 1 row affected (0.00 sec)  ERROR:  No query specified |

#### 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.

|  |
| --- |
| java –jar hsts.jar |

Web application is now available at **http://server-ip-address**.