**MongoDB Workshop Setup Instructions**

**Following are the steps for installation of MongoDB related software on Windows systems.**

Please read the complete instructions and **follow exactly as per the instruction and install exactly in the mentioned folders.**

**Note:    <Drive>:  mentioned below is C: or D: or E: or F: etc. wherever space is available for s**

1. Download MongoDB v3.6.3 64 Bit (or v3.2 32 Bit) depending on your system type. **Admin privilege is required.**
   1. <http://downloads.mongodb.org/win32/mongodb-win32-x86_64-2008plus-ssl-3.6.3-signed.msi> [ 64 Bit Installer ] --- **preferable**

**(OR)**

* 1. <http://downloads.mongodb.org/win32/mongodb-win32-i386-v3.2-latest-signed.msi> [ 32 Bit Installer ]

1. Alternatively, you can also download zip binaries
   1. <http://downloads.mongodb.org/win32/mongodb-win32-x86_64-2008plus-ssl-3.6.3.zip> [64 Bit] --- **preferable**

**(OR)**

* 1. <http://downloads.mongodb.org/win32/mongodb-win32-i386-v3.2-latest.zip> [32 Bit]
  2. Extract the MongoDB v3.6.3 (64 bit) **or** v3.2.x (32 bit) binary zip contents in **<Drive>** of your choice. Let us call this path as **<MongoDB\_Home\_Folder>**

1. Create a folder **“data”** under **<Drive>:\<MongoDB\_Home\_Folder>**
2. Create another sub-folder **“db”** under **<Drive>:\<MongoDB\_Home\_Folder>\data**
3. After folder creation, directory structure should be:

**<Drive>:\<MongoDB\_Home\_Folder>**

**| --- bin**

**| --- data**

**| --- db**

1. To start MongoDB server, use command prompt and change directory to **<Drive>:\<MongoDB\_Home\_Folder>**

**bin\mongod.exe --dbpath data\db**

1. To start MongoDB client shell, open new command prompt and change directory to **<Drive>:\<MongoDB\_Home\_Folder>**.

**bin\mongo.exe**

**\*\* NOTE: START SERVER first and then CLIENT SHELL**

**Note:** If **<Drive>:\<MongoDB\_Home\_Folder>\bin** is present in **PATH** environment, MongoDB client shell can be started **using the command “mongo” from any directory in Command Prompt**.

**Following are the steps for installation of Mongoose and related software to connect to MongoDB Server and execute CRUD operations.**

1. Install Node.js v8.11.1 - 64 Bit or 32 Bit depending on your system type. **Admin privilege is required.**
   1. <https://nodejs.org/dist/v8.11.1/node-v8.11.1-x64.msi> [ 64 Bit Installer ]

**(OR)**

* 1. <https://nodejs.org/dist/v8.11.1/node-v8.11.1-x86.msi> [ 32 Bit Installer ]

1. You can use editors like Atom Editor [ <https://atom.io/> ] or Microsoft Visual Studio Code [ <https://code.visualstudio.com> ]
2. Install **Google Chrome**. (Preferred one, though you can use other browsers).
3. Create a folder **“fullstack”** under **<Drive>:\.** Let us call this path as **<FS\_PATH>**
4. Create a folder **mongodb\_ws** under **<FS\_PATH>**
5. Goto “**Node.js command prompt**”. (**Use  the shortcut** present under the “Node.js” traversed through “Start | All Programs”.
   1. Change directory to **<FS\_PATH>\mongodb\_ws**
6. **IMPORTANT NOTE:** This step is required only if you are installing behind proxy. **Otherwise, do not issue the below commands.**

If behind Wipro proxy, Configuring proxy for node.js is important using npm config. Only if **proxy** is configured, “npm  install” will work properly.

* **npm config set proxy**[**http://ADUserID:ADpassword@proxyname:port**](http://ADUserID:ADpassword@proxyname:port)
* **npm config set https-proxy**[**http://ADUserID:ADpassword@proxyname:port**](http://LDAP-ADUserID:LDAP-ADpassword@proxyname:port)
* **IMPORTANT (OPTIONAL STEP – NOT A REGULAR ONE) :** In case, you have already set the proxy config wrongly and want to run the remaining commands from Direct Connection to Internet, then to delete the proxy configuration, execute the following commands.
  + **npm config delete proxy**
  + **npm config delete https-proxy**

1. Run the following commands

[**Note:** Do not copy paste the command from this Word document. Type the command manually].

npm init –y

// **To get a default package.json, run npm init with the --yes or -y flag**

**/ /** package.json provides modules to be installed (use **npm install**) and prevents need to share node\_modules dir

// **--save** will add dependencies to package.json as well along with **install** command

npm install --save [body-parser@1.18.2](mailto:body-parser@1.18.2)

// **Parse incoming request bodies in a middleware**

npm install --save [express@4.16.3](mailto:express@4.16.3)

// **express**

npm install --save [gridfs-stream@1.1.1](mailto:gridfs-stream@1.1.1)

// **Easily stream files to and from MongoDB**

npm install --save [mongoose@4.13.12](mailto:mongoose@4.13.12)

// **Mongoose is** [**MongoDB**](https://www.mongodb.org/)**object modeling tool to work in async env.**

npm install --save [multer@1.3.0](mailto:multer@1.3.0)

// **Multer is node.js middleware for handling multipart/form-data, primarily used for uploading files.**

npm install --save [multer-gridfs-storage@3.0.1](mailto:multer-gridfs-storage@3.0.1)

// [**GridFS**](https://docs.mongodb.com/manual/core/gridfs)**storage engine for**[**Multer**](https://github.com/expressjs/multer)**to store uploaded files directly to MongoDb.**

1. Be in **Node.js command prompt** and ensure you are in the directory **<FS\_PATH>\mongodb\_ws** and thenCreate a directory “**code**” under **<FS\_PATH>\mongodb\_ws**
2. During the training session on **MongoDB**, while trying out some of the concepts, you can create a separate sub-folder under **“code”** to try out the concept.