University of Witwatersrand

ELEN 7046

Software Technologies and Techniques

Johannesburg Centre for Software Engineering, Johannesburg, South Africa

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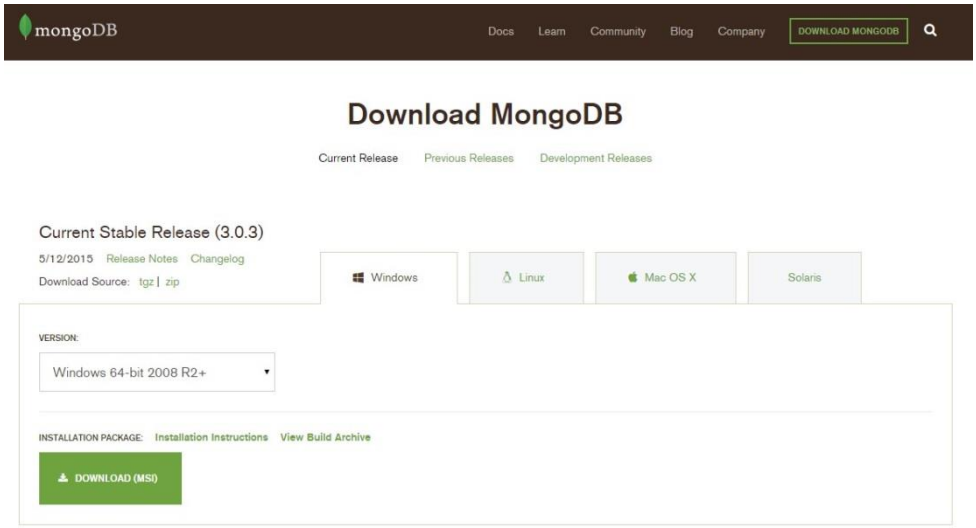
Group Assignment

Developers Guide

Application Name	Application Location
SirVey	https://github.com/ReddragonLR/ELEN7046ServerAndAdmin https://github.com/ReddragonLR/ELEN7046AndroidApp

Setting up the MEAN Stack

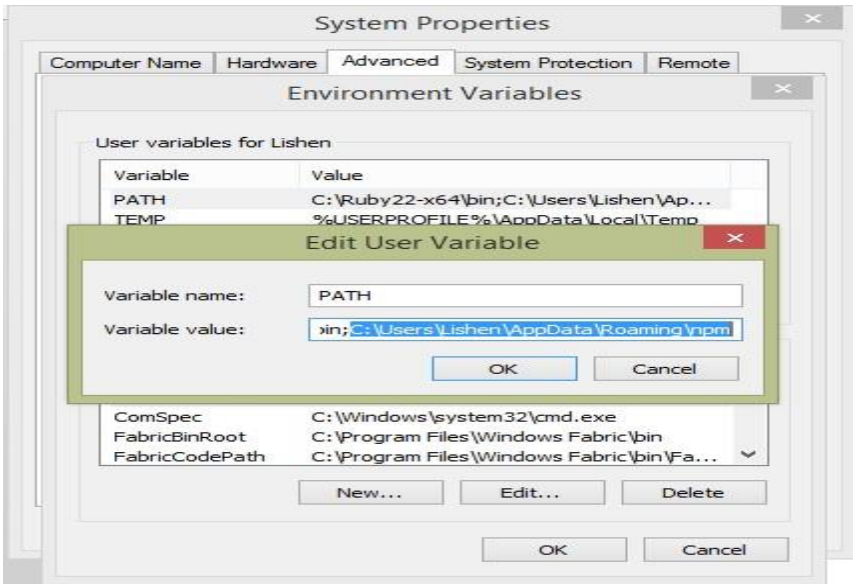
1. Go to https://www.mongodb.org/downloads and install the version of mongo for your machine



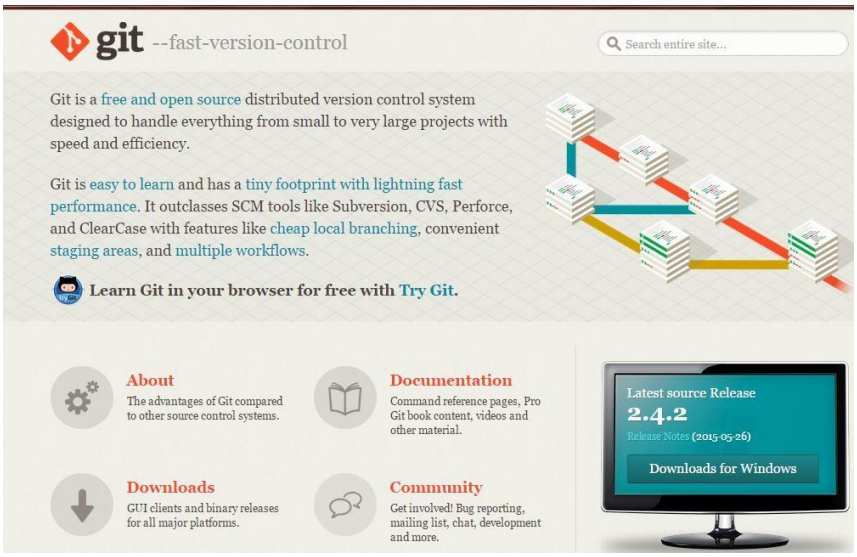
2. Take note of where Mongo will be installed
3. Create a folder where your mongo data files are going to be stored. Typically use C:/Data/mongodb
4. Then create a bat file that points to where your mongo exe is installed similar to the one below. The dbpath is the path to the folder where you want to save mongodb files

```
cd\
cd "C:\Program Files\MongoDB 2.6 Standard\bin"
mongod.exe --dbpath C:\Data\mongodb
```

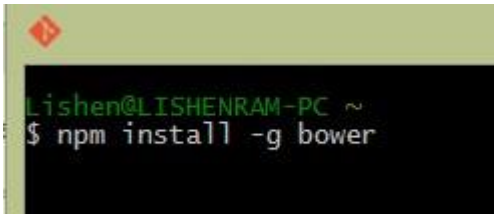
5. Go to https://nodejs.org/ and install the version of NodeJs for your machine
6. Add the npm environment variable to your PATH file as shown below:



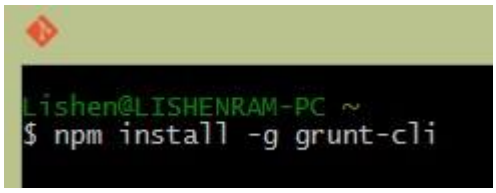
7. Go to https://git-scm.com/ and install Git (which includes the Git Bash terminal) for your machine



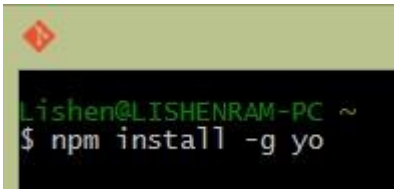
8. Then open your git bash terminal and run the following command:



9. Once that has completed, run the following command:

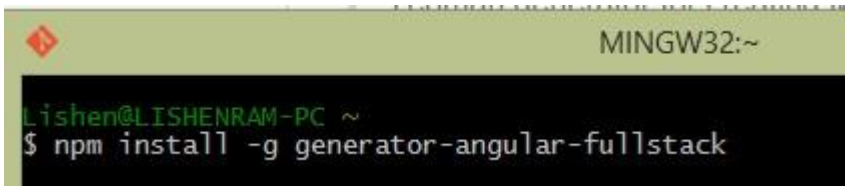


10. Once that has completed, run the following command:



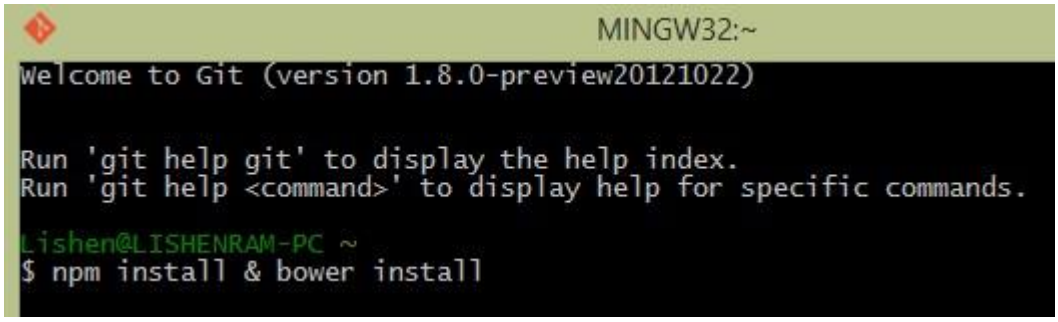
Details on using yeoman here: http://yeoman.io/learning/

11. Once that has completed run the following command:



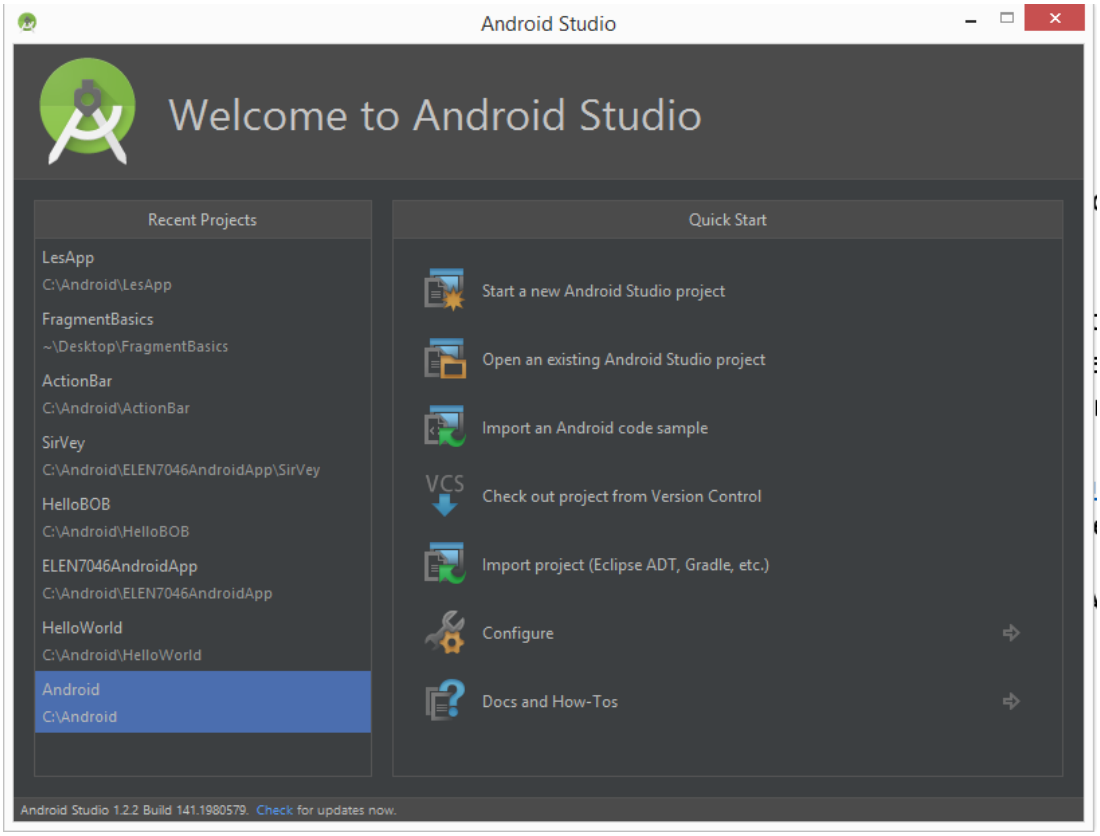
12. You are now ready to work on the project. So clone the project from GitHub as shown below:

13. Run the following command:

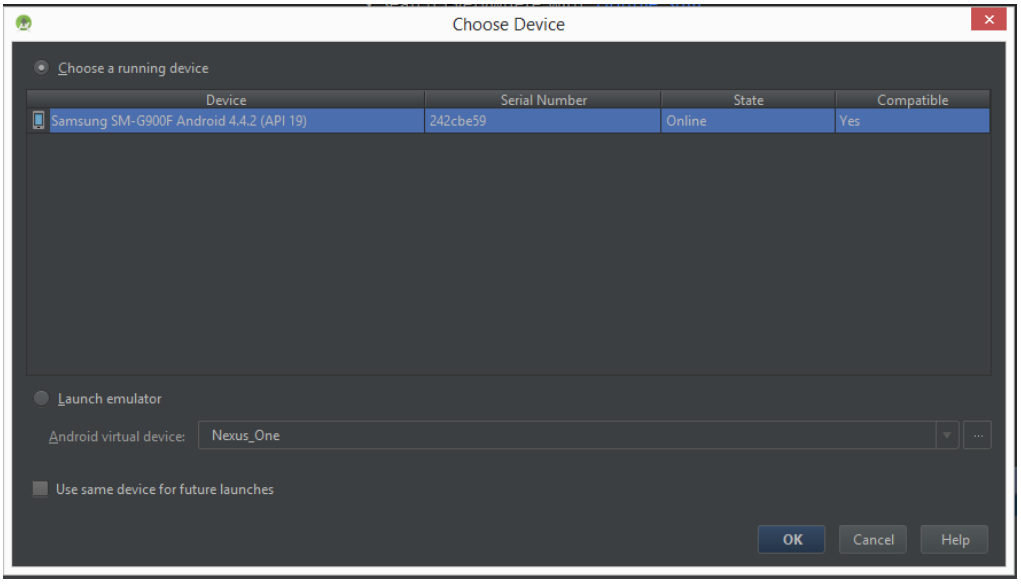


Setting up the Android Stack

1. Download and install Android Studio from the following url: https://developer.android.com/sdk/index.html
2. Plug in your device with a USB cable, for windows you may require the appropriate USB driver which can be found at https://developer.android.com/tools/extras/oem-usb.html.
3. Enable USB debugging on your device. On devices running Android 3.2 or later the option can be found under Settings > Applications > Development. On Android 4.2 and newer the option is in Settings > Developer Options. This option is hidden by default, to make this option available go to Settings > about phone and tap the build number seven times, return to the previous screen and find Developer Options.
4. The project is called SirVey and can be cloned using git at the following repository: https://github.com/ReddragonLR/ELEN7046AndroidApp. To clone the project, simply open an instance of cmd/powershell and issue the command: git clone <repository name>.
5. Once the code repository has been downloaded, open android studio and select the option to “Open an existing Android Studio project” as shown in the figure below.



Once the project has been imported you can select the **Run**  option in Android studio, this will launch the application. When the application starts launching you will be prompted to select a device to run the application on as in the screen below. You should be able to identify the device you are using. The device should be Online. Select ok to run the application on the device.



If everything is working as it should the application will automatically launch on the selected device.