Tools used:

1. Raspberry Pi 3 model b
2. 5 inch HDMI touchscreen
3. 8GB minimum Micro SD memory card
4. Raspberry Pi imager v1.7.1 (Software)
5. Raspbian OS 64Bit (OS)

Useful commands:

* Switch user (su USERNAME)
* Shutdown RPi ( sudo shutdown -h -P now )

Steps

1. Install OS on the micro sd card
   1. Run the imager software
   2. Plugin micro sd card into the computer
   3. Select operating system
   4. Select storage ( micro sd card)
   5. Setup OS config file to connect to your WIFI network so we can SSH into it
2. Update OS
   1. sudo apt update
   2. sudo apt dist-upgrade
3. (Different for every screen) Config touchscreen using shell script provided by manufacturer
   1. git clone <https://github.com/yoyojacky/52Pi.git>
   2. cd ~/52Pi
   3. chmod +x restool.sh
   4. ./restool.sh
   5. Choose 5 inch capacitive
4. Install MYSQL
   1. sudo apt install mariadb-server
   2. sudo mysql\_secure\_installation
      1. Remove anonymous users? [Y/n] y
      2. Disallow root login remotely? [Y/n] n
      3. Remove test database and access to it? [Y/n] y
      4. Reload privilege tables now? [Y/n] y
   3. sudo mysql -u root -p
      1. enter the password
      2. GRANT ALL PRIVILEGES ON mydb.\* TO pi@localhost IDENTIFIED BY ‘root’; (fix quotation around root if you get an error)
5. Install phpMyAdmin
   1. sudo apt-get install phpMyAdmin
   2. configuration window for phpMyAdmin will open
   3. select apache2 by pressing SPACE and then pressing ENTER
   4. after apache2 is installed a new configuration window will open for phpMyAdmin
   5. configure database for phpMyAdmin with dbconfig-common? Select YES
   6. enter a password
6. configure apache2 server
   1. sudo ln -s /usr/share/phpmyadmin /var/www/html
   2. sudo nano /etc/apache2/apache2.conf
   3. go to the bottom of the file and paste this line Include /etc/phpmyadmin/apache.conf
   4. click CRTL + S and to save the file and press ENTER
   5. click CTRL + X to exit the file
   6. now start the apache2 server
   7. sudo /etc/init.d/apache2 start
   8. sudo apt-get install libapache2-mod-php
   9. go to the raspberry pi’s IP and check if apache2 server is working (EX. 192.168.1.23)
   10. go to the raspberry pi’s IP and check if phpmyadmin is working (EX. 192.168.1.23/phpmyadmin)
   11. login using ‘root’ as USERNAME and the password you entered in phpMyAdmin configuration