Prepare environment for mobile app :

**1- Installing Nodejs**

You have to install NodeJs as Cordova is an node module can be found on npm registry as one of the most used npm projects.

To install it run the following from terminal

sudo apt-get install nodejs

we need also to install npm (Node Package Manager) via :  
sudo apt-get install npm  
In most cases the version installed is old one so we have to update it via the following commands:  
sudo npm install n -g  
sudo npm cache clean  
sudo n stable  
sudo npm update -g

Finally we need to check the versions to make sure we have the latest versions

node -v  
npm -v

**2- Installing Java JDK**

for Android development we need to have JAVA JDK(JAVA Development Kit) to be able to build Android Apps.

To download and install it run :

sudo apt-get install java-8-openjdk  
After downloading it we need to add it out environment path so we can use it from terminal to do this run:  
sudo nano ~/.bashrc  
and add the following to the end of the file  
export JAVA\_HOME=/usr/lib/jvm/java-8-openjdk-amd64  
export PATH=$PATH:$JAVA\_HOME/bin  
  
make sure that “/usr/lib/jvm/java-8-openjdk-amd64” is the path where the Java JDK installed on your machine  
then save and close it by press (ctrl+x) then (Y)

to make sure that everything is going fine check then version of the java installed  
java -version

**3- Installing Android SDK Manager**

the other important thing to build android apps is to have Android SDK installed on your machine, so the next step is to download it from here [Android SDK](http://dl.google.com/android/android-sdk_r24.4.1-linux.tgz)

unzip the file and put it in wherever you want then add its path to the environment just like we did with java  
sudo gedit ~/.bashrc  
and add the following to the end of the file  
export ANDROID\_HOME=$HOME/android-sdk-linux  
export PATH=$PATH:$ANDROID\_HOME/tools  
export PATH=$PATH:$ANDROID\_HOME/platform-tools  
  
check it by closing the terminal and open a new terminal then run :  
android  
it should open the sdk manager

Now we have all necessary tools to build and run Android Apps.

**4- Install Cordova Framework**

Now we are good to go with install Cordova framework itself by running :

sudo npm install cordova -g

and check that it installed by running :

cordova -v

**5- Install Ionic Framework**

Ionic is one of the most powerful UI frameworks for cross platforms mobile developments

Install it via :  
sudo npm install ionic -g

and check that it installed by running :

ionic -v

**6- Start Our First Ionic App**

At this step our environment is ready to start the fun!

let’s create our first app and call it myApp

ionic start myApp --v1 blank  
this should create a folder called “myApp” containing our base app.  
cd myApp  
now we have one last step which as building the app for Android devices  
so we need first to till ionic we need to develop for Android:  
ionic platform add android  
then we can build an Android version from our app via:  
ionic build android  
this will take so much time for the first time because it will install one last thing need to develop Android apps which is “gradle” library  
and once it get done we have gradle on our machine and can use it with any other machine.

when everything is done you should have message like this

Prepare environment for Api / web :

For Ubuntu Users:

- Make sure you have PHP using command: php -v

& my SQL using command: mysql --version installed.

- Open your terminal and just enter “sudo apt-get install composer”.

- Put the project any where you want.

- Create a database name it “rubyera” then run command:

php artisan make:migration

- Start the Laravel service by executing the following command:

php artisan serve

* Open your browser and type “http://localhost:8000”.