



MCAST

# INTRODUCTION TO MOBILE APPLICATIONS DEVELOPMENT

**Environment  
Setup**

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# ENVIRONMENT SETUP

We will be building mobile applications using the latest technologies:

- ✓ Ionic
- ✓ React
- ✓ TypeScript
- ✓ Vite
- ✓ Capacitor
- ✓ HTML/CSS

# SOFTWARE TO INSTALL

Follow the instructions in the YouTube video to install **NodeJS, Android Studio and the Android Emulator**:

<https://www.youtube.com/watch?v=Rbg5P68fX6o>

After installing NodeJS, you can install the **Ionic Framework** from the command prompt like so:

```
npm install -g @ionic/cli
```

# CONFIGURATION

We also need to setup the following Environment Variables:

- **ANDROID\_HOME**

This is the location of the Android Studio, ex.

**C:\Users\james\AppData\Local\Android\Sdk**

- **JAVA\_HOME**

This is the location of the Java installation, ex.

**C:\Program Files\Android\Android Studio\jbr**

(Android Studio's inbuilt Java)

# IDE – VISUAL STUDIO CODE

Finally, we also need to VS Code from here:  
<https://code.visualstudio.com/download/>. Once installed,  
it is recommended to install the following plugin:

