**1.System requirements:**

CPU: Intel Core i5 or higher

RAM: 8 GB or higher

Operating System: Windows 10 or higher

**2.Installation instructions:**   
Install Node.js: Download the latest LTS version of Node.js from the official website.

Run the installer and follow the prompts to complete the installation.  
  
Install React Native CLI:

Open a terminal or command prompt and run the following command:  
npm install -g react-native-cli  
  
Install Android Studio:

Download Android Studio from the official website.

Run the installer and follow the prompts to complete the installation.

During the installation, make sure to install the Android SDK and Android Virtual Device (AVD) components.

**3.Configuration steps:**   
Set up environment variables:

Add the following paths to your system's environment variables:

ANDROID\_HOME: Path to the Android SDK directory (e.g., C:\Users\<YourUsername>\AppData\Local\Android\Sdk).

Add the Android SDK platform-tools directory to your system's PATH variable (e.g., C:\Users\<YourUsername>\AppData\Local\Android\Sdk\platform-tools).

Configure Android Virtual Device (AVD):

Open Android Studio and navigate to the AVD Manager.

Create a new virtual device with UpsideDownCake API Level 34 image, and launch it

**4.Project creation**:   
Create a new React Native project:

Open a terminal or command prompt and run the following command:

npx react-native@latest init AwesomeProject

**5.Running the project:**   
run the following, then you should be able to see the project is running in Android Emulator  
npm run android

**6.Troubleshooting:**   
If you encounter an error related to the Android SDK or AVD, ensure that your environment variables are set correctly and that your virtual device is configured properly.

If you encounter a JavaScript-related error, check your code for syntax errors or missing dependencies.

**7.Resources:**   
  
<https://reactnative.dev/docs/environment-setup?guide=native>  
https://developer.android.com/studio/run/managing-avds.html