**1. \*\*Detailed System Requirements\*\*:**

- \*\*Device\*\*: Sourabh Laptop, equipped with a 13th Gen Intel Core i7-13700HX processor, clocking at 2.10 GHz.

- \*\*Memory\*\*: 16 GB RAM installed, with 15.7 GB usable.

- \*\*Operating System\*\*: Windows 11 Home Edition, 64-bit architecture, x64-based processor. The specific version is 22H2, installed as of October 20, 2023.

- \*\*Additional Details\*\*: The system does not support pen or touch input.

**2. \*\*Comprehensive Installation Guide for React Native and Android Studio\*\*:**

- \*\*React Native Setup\*\*:

- Visit the official React Native website and navigate through "Development" > "Guides" > "Environment Setup".

- In the "React Native CLI Quickstart" section, select Windows as the development OS and Android as the target OS.

- Download and install Node.js, opting for the LTS version.

- \*\*Android Studio Installation\*\*:

- Download Android Studio and proceed with the default settings throughout the installation.

- Choose your preferred UI theme and ensure the installation of "Android SDK", "SDK Platform", and "Virtual Device".

- \*\*Environment Variable Configuration\*\*:

- Set up the `ANDROID\_HOME` variable to point to the Android SDK installation directory.

- Add the Android SDK's "platform-tools" directory to your system's path variable.

**3. \*\*Environment Configuration Steps\*\*:**

- In Android Studio, use the "SDK Manager" to ensure that "Android SDK Platform 34" and necessary "SDK Tools" are selected.

- Add the Android SDK location to the `ANDROID\_HOME` environment variable and include "platform-tools" in the system path.

**4. \*\*Project Initialization Instructions\*\*:**

- Select a directory outside of OneDrive and User folders for your project.

- Initialize the project using `npx react-native@latest init [Project Name]`.

- Open the project in Visual Studio Code and confirm the author's trustworthiness if prompted.

**5. \*\*Steps for Running the Project in an Android Emulator\*\*:**

- In Android Studio, set up a Pixel 7 emulator (or a similar device) and ensure the emulator is correctly configured.

- Build the project in Android Studio, then run it. If a script loading error appears, resolve it using `npm run start`.

**6. \*\*In-Depth Troubleshooting Guide\*\*:**

- Address the "No matching variant of project :gradle-plugin found" error by verifying and correcting JDK paths in the environment variables.

- Use "React Native Doctor" to diagnose and fix issues related to React Native setup.

**7. \*\*Extended List of Learning Resources\*\*:**

- \*\*Official React Native Documentation\*\*: A complete source for tutorials, guides, and API references.

- \*\*React Native GitHub Repository\*\*: Stay updated with the latest developments and community contributions.

- \*\*React Native Tutorials and Courses\*\*: Explore various tutorials and courses available on platforms like YouTube, Udemy, and Programming with Mosh for a more structured learning experience.

- \*\*Community Resources\*\*: Engage with the React Native community and follow the official blog for the latest news. Utilize Stack Overflow for specific queries and troubleshooting.

- \*\*Medium Articles\*\*: Diverse range of articles and stories on React Native, covering everything from basics to advanced topics.