**Mapp Project Deployment Manual**

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**1. Introduction**

This manual is intended for system administrators or IT personnel responsible for deploying the software.

**2. Prerequisites**

* Operating System: Windows 10, macOS, or Linux
* JDK 8 or higher
* Latest version of Android Studio
* Android SDK and related tools

**3. Setting Up the Development Environment**

1. Download and install [Android Studio](https://developer.android.com/studio).
2. Install JDK and ensure the JAVA\_HOME environment variable is set correctly.
3. Open Android Studio and configure the SDK, ensuring the latest SDK version and necessary tools are installed.

**4. Cloning and Configuring the Project**

1. Clone the project repository using Git:

git clone <https://github.com/htmw/Educators-Assembled.git>

1. Open the project in Android Studio:

 Launch Android Studio.

 Select "Open an existing project".

 Navigate to the cloned project directory and select it.

1. Configure project dependencies:

 Open the build.gradle files and ensure all dependencies are correctly configured.

 Sync the project with Gradle files to download all necessary dependencies.

**5. Building and Running the Application**

1. Connect an Android device via USB or start an Android emulator.
2. In Android Studio, click the "Run" button or use the shortcut Shift + F10.
3. Select the device/emulator to run the application.
4. Ensure the application builds and runs without errors.

**6. Deploying to Google Play**

1. Prepare the application for release:
   * Navigate to Build > Generate Signed Bundle / APK....
   * Follow the prompts to create a signed APK or App Bundle.
   * Ensure all release configurations (such as ProGuard rules and signing configurations) are correctly set up.
2. Access Google Play Console:
   * Sign in to your Google Play Console.
   * Create a new application or select an existing one.
3. Upload the APK/App Bundle:
   * Navigate to the "Release" section.
   * Follow the prompts to upload your signed APK or App Bundle.
   * Complete the release information and submit your application for review.

**7. Troubleshooting**

* If you encounter issues building the project, ensure all dependencies are correctly installed and configured.
* Check the Android Studio log for error messages and search for solutions online.
* Ensure your device or emulator is properly set up and recognized by Android Studio.