**Idea/Approach Details**

Ministry Category: ISRO.

Problem Statement: Develop a solution for protecting App distribution. Problem Code: #ISR37

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## DESCRIPTION:

Madroid (our developing project) is a widget for android applications, which prevents app sharing when binded with the android application. The application is installed from the trusted source, (i.e. the organization) by recognizing IMEI and MAC address using our algorithm (recognition algorithm). The employee should login using his/her credentials to access the app and on the first time the user should register it using the OTP generated by the organization. After registration process, the employee will be asked to set one unique code, once the code is set the app gets hidden automatically. The employee should make use of this unique code and make a call to that number(unique code) from the dialer pad to open the application, which prevents unauthorized person from identifying the app(app location) and distributing the app as it is hidden. The whole app data is hidden and obfuscated even from the authenticated user (employee) to prevent app sharing. If the employee tries to access the app data or try to extract the apk of application, the whole application gets wiped automatically.

## TECHNOLOGY STACK:

- **Frontend**-Java,XML.
- **Backend** - Java,NodeJS,PHP.
- **Tools**-Eclipse/Android Studio(android development),xampp/wamp(server database).
- **Database**-MySql,SqLite(Android).

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**USECASE URL:**

https://docs.google.com/document/d/1HWATYfwaRfqYCZxC-1up-q6NR6uTi4sgRGNNerTW4Cg/edit

**DEPENDENCIES:**

- Android SDK tool (Eclipse).
- Android Devices.
- Encryption Standard AES (Advanced Encryption Standard).
- High speed Internet Connectivity& Server.
- Database to Manage Accounts.