Mini Project Proforma3

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**Proforma 3 – synopsis of work**

1. Proposed Project Title : Power Efficient Android ROM

2. Guided By : Ms. Bisna N.B

3. Group No : 10

**4. Introduction**

One of the biggest downsides of today's android device is the way they utilize power. The maximum battery drain that a stock android device provides is usually less than the optimum or potential battery drain that the device can provide and we have opted this as the theme of our project. We propose to build a customized version of the android system(similar to an operating system) that has a longer battery drain and utilizes memory more efficiently. In the process we also plan on adding support to the Malayalam Language for the android Device.

**Summary of work**

This project aims at extending battery life of the android device by removing/making installation optional of the unnecessary/less frequently used stock applications (otherwise termed as bloat wares),incorporating inverted Google applications(Gmail, android play, maps, YouTube etc) and other tweaks in the android kernel. We are compiling the ROM from the source code provided by Google. We would also manage the processor speeds to obtain maximum possible battery drain. In building the android system from the source code the necessary support for Malayalam Language can also be given.

The implementation of the proposed Android Software will be done on the HTC Wildfire smartphone.The software can be ported into any other Android Smartphone having the required hardware capabilities with only some minor changes.

5. Feasibility study

The proposed changes can be implemented on the Android System.

**6.MODEL**

We have opted the Agile modeling methodology in building this ROM. Therefore we have envisioned a high level structure of the building process and have prioritized the requirements correspondingly.

**7. Facilities required for proposed work**

To implement the proposed Software we require a HTC Wildfire SmartPhone.

**8. Bibliography**

http://forum.xda-developers.com/

https://developers.google.com/

www.droidforums.net

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