**VIRTUAL SMARTPHONE**

**OVER IP**

**CERTIFICATE**



This is to certify that the First Seminar Report entitled

Passive Optical Network Monitoring is prepared and presented by

(Computer Engineering) and her work is satisfactory.

GUIDE Coordinator HEAD OF DEPT.

**ACKNOWLEDGMENT**

**ABSTRACT**

Chapter 1:-

Problem Definition

Chapter 2:-

Literature Survey

Chapter 3:-

Software Requirement Specification

**SOFTWARE REQUIREMENTS:-**

* **CORE JAVA**
* **ADVANCE JAVA**
* **ANDROID**
* **EJB CONTAINER/GLASS FISH (SERVER NAME)/PAAS SERVER.**

**HARDWARE MINIMUM REQUIREMENTS:-**

* **DEKSTOP: - 2GB RAM, CORE I3 PROCESSER, 500 MB FREE HARD DISK SPACE**
* **MOBILE: - ANDROID 800 MHz PROCESSOR ,512 MB RAM**

3.1 Introduction:-

3.1.1 Project Scope:-

**Scope:-**

Existing cloud systems works on virtual machine (VM). Any language or OS or Running environment can be deployed on VM. VM can be instructed to use a part of processing power or machine power only.

Since construction of VM is costly we are designing pass component which will use JVM as a VM. It will create a exclusion to the software that it is working on VM but its working on JVM. Azure platform which runs on dotNet technology is not platform independent hence we are using JVM which is platform independent. Due to this more enhanced way of computing mobile applications is achieved. Cloud Computing is implemented on Thickpads (Computer Systems) but not on Thinpads (Smartphones) which is the current need hence we have proposed to build this system.

3.1.2 User Classes and Characteristics:-

1. Heavy user on smart phone
2. Business user
3. Marketing user
4. Meeting planner
5. Heavy mail user not chat user
6. Good knowledge of smart phone
7. Onsite/field user

3.1.3 Operating Environment:-

3.1.4 Design and Implementation Constraint:-

1. Good battery backup
2. Screen size adjustable
3. Compatible with os

3.1.5 Assumption and dependencies:-

1. Battery backup at least 10%
2. Screen size of smartphone
3. Restriction of license duration date based on date only
   1. System Feature:-
   * **Application framework** enabling reuse and replacement of components

* **Dalvik virtual machine** optimized for mobile devices
* **Integrated browser** based on the open source WebKit engine
* **Optimized graphics** powered by a custom 2D graphics library; 3D graphics based on the OpenGL ES 1.0 specification (hardware acceleration optional)
* **SQLite** for structured data storage
* **Media support** for common audio, video, and still image formats (MPEG4, H.264, MP3, AAC, AMR, JPG, PNG,GIF)
* **GSM Telephony** (hardware dependent)
* **Bluetooth, EDGE, 3G, and WiFi** (hardware dependent)
* **Camera, GPS, compass, and accelerometer** (hardware dependent)
* **Rich development environment** including a device emulator, tools for debugging, memory and performance profiling, and a plugin for the Eclipse IDE
  1. External Interface Requirement:-

3.3.1 User Interface:-

1. Level1 user-API
2. Level2 –GUI
3. Provided by level1 user
4. By default

3.3.2 Hardware Interface:-

1. Open source EJP container
2. Processor touch screen or keypad

3.3.3 Software Interface:-

Smartphones

3.3.4 Communication Interface:-

1. 3G
2. H3G
3. HTTP
   1. Non Functional Requirement:-

3.4.1 Performance Requirement:-

* + 1. Safety Requirement:-
    2. Security Requirement:-
* This app is great for those of use who have a tendency to lose our phones.
* Once installed, Mobile Defense allows you to remotely locate,lock,back up, or wipe your device, in addition to other neat features. One out-standing feature is that the app runs
* in the background and is undetected in your app list. So if a would-be thieftakes your phone,
* he would not know you are tracking him, nor could he disable the app or uninstall it.
* STEALTH TRACKING: Mobile Defense is very good at pinpointing a misplaced device. There is
* even a street view where you can highlight areas and zoom in. The map views are all viewable while
* the app is quietly running/sleeping in the background.
* The app wakesup only when it is asked to report on its whereabouts,so it is not a batterydrain.
* HIDDEN FEATURES On the web page for your
* device, you can alert, lock, back up, wipe, or
* disconnect the device. The alert is a noisy siren,
* and it shrills loudly. The dashboard below shows
* the speed at which the device is moving, which is
* useful for determining how it is being transported and how quickly.
  + 1. Other requirements:-

Database Requirements:-

JPA database

Data Flow Diagram:-

Class Diagram:-

State Transition Diagram:-

Use Case Diagram:-