**LOCATION BASED EVENT NOTIFIER**

**A Project Report**

*Submitted in partial fulfilment for the award of the degree*

*of*

**Master of Technology**

***in***

**Information Technology**

*by*

**ROBICK.R**

**15MIN0810**

*Under the guidance of*

**Dr. Rajesh Kaluri**

**Assistant Professor (Senior)**

**VIT, Vellore.**





**School of Information Technology and Engineering**

April 2019.



**School of Information Technology and Engineering**

**DECLARATION BY THE CANDIDATE**

I hereby declare that the thesis entitled **“LOCATION BASED EVENT NOTIFIER”** submitted by me to Vellore Institute of Technology University Vellore, in partial fulfillment of the requirement for the award of the degree of **Master of Technology** in **Information Technology** is a record of bonafide project work carried out by me under the supervision of **Dr. Rajesh Kaluri, Assistant Professor (Senior)**. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

**Place**: Chennai

**Date**: 14-04-2019 **Signature of the Candidate**



**School of Information Technology and Engineering**

**BONAFIDE CERTIFICATE**

This is to certify that the project work entitled **“LOCATION BASED EVENT NOTIFIER”** by **ROBICK.R (15MIN0810),** to Vellore Institute of Technology University, Vellore, in partial fulfillment of the requirement for the award of the degree of **Master of Technology** in **Information Technology**, is a project bonafide work carried out by him/her under my supervision. The project fulfills the requirement as per the regulations of this Institute and in my opinion meets the necessary standards for submission. The contents of this report have not been submitted and will not be submitted either in part or in full, for the award of any other degree or diploma in this Institute or any other Institute or University.

**Dr. Rajesh Kaluri.**

**Internal Supervisor**

**Assistant Professor (Senior)**

**VIT**

**Internal Examiner(s) External Examiner(s)**

**SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING**

**M. Tech – INFORMATION TECHNOLOGY**

**FINAL YEAR PROJECT: SYNOPSIS SUBMISSION SHEET**

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| **PROJECT DETAILS**  **GUIDE NAME: Dr. Rajesh Kaluri**  **PROJECT DOMAIN:**  **Android application** |

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| **ABSTRACT**  **LOCATION BASED EVENT NOTIFIER- Built on and for Android**  The aim of the project is to develop an Android based application which can help user to schedule events according to the location. It is a free application through which a user can plan event according to the location the user is in and get notified according the devices and permission using this Android based Smart phone app. The Android is a [mobile operating system](https://en.wikipedia.org/wiki/Mobile_operating_system) developed by [Google](https://en.wikipedia.org/wiki/Google). It is based on a modified version of the [Linux kernel](https://en.wikipedia.org/wiki/Linux_kernel) and other [open source](https://en.wikipedia.org/wiki/Open-source_software) software, and is designed primarily for [touchscreen](https://en.wikipedia.org/wiki/Touchscreen) mobile devices such as [smartphones](https://en.wikipedia.org/wiki/Smartphone) and [tablets](https://en.wikipedia.org/wiki/Tablet_computer). In addition, Google has further developed [Android TV](https://en.wikipedia.org/wiki/Android_TV) for televisions, [Android Auto](https://en.wikipedia.org/wiki/Android_Auto) for cars, and [Wear OS](https://en.wikipedia.org/wiki/Wear_OS) for wrist watches, each with a specialized user interface. Variants of Android are also used on [game consoles](https://en.wikipedia.org/wiki/Video_game_console), [digital cameras](https://en.wikipedia.org/wiki/Digital_camera), [PCs](https://en.wikipedia.org/wiki/Personal_computer) and other electronics. (Android).  **OBJECTIVE:**  To develop an Android application which can be used to create events reminder according to one location. This application will also include additional feature for:   * Event reminder according to one specific location. * Schedule events according one location * Share the event details with friends. * Invite friends for an event scheduled with location. * Create a group chat platform for the events if its shared across friends.   The core of this application is built on Android Software Development Kit (SDK) and Android Studio. One of the best parts about developing for Android is that the necessary tools are free and easy to obtain. The [Android SDK](https://developer.android.com/tools/help/sdk-manager.html) is available via free-of-charge download, as is [Android Studio](https://developer.android.com/sdk/index.html), the official integrated development environment (IDE) for Android app development. Android Studio is the main program with which developers write code and assemble their apps from various packages and libraries. The Android SDK includes sample code, software libraries, handy coding tools, and much more to help you build, test, and debug Android applications (Android\_Developer).  **SCOPE:**  The scope of the project is to design and develop a location-based event reminder on Android platform and provide the users an ease of scheduling events. It will be used to plan events with friends or get notified based on location of user. Other plans for this application are   * Connect with Smart watch for notification. * Sync reminders with help of Virtual Assistant. * It should be easy to schedule and plan. * Able to chat among group of friends shared.   **MODULES OF THE PROJECT:**   * Android studio module. * GNSS modules. * Google play services. * [CloudRail Social API](https://www.cloudrail.com/) * Alexa Voice Service (AVS) * Wear OS   **SOFTWARE REQUIREMENT:**   * Android (SDK Kit) * Android studio (IDE) * Firebase/Node JS (server) * Spring-boot (Backend)   **REFERENCES:**   * <https://en.wikipedia.org/wiki/Mobile_operating_system><https://en.wikipedia.org/wiki/Home_automation> * <https://blog.udacity.com/2015/05/become-android-developer.html> * <https://medium.com/coding-and-learning/android-social-network-integration-73d5d320e7dd> * <https://www.survivingwithandroid.com/2016/10/android-social-api-integration-access-social-profile.html> * <https://www.cloudrail.com/> * <https://alexa.github.io/avs-device-sdk/> * <https://developer.android.com/training/wearables/apps/creating> |
| **Signature of the Student with Date :**  **Approval Signature of the Guide with Date :**  **Note: Guide signature has to be taken before April2019 and this document has to be submitted during the ITY591- Review on 22 June2019.** |