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## Location based alarm on Android

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### ABSTRACT

Location based reminder are essential component of many location-based application. It basically reminds user when to do something. The main purpose of location-based services is to provide services to customers based on their knowledge of location. All the user need's to have is the mobile phone with Android operating system and user can select any destination on Google maps. In this paper we proposed an architecture of location-based services which use GPS.

**Keywords**— Alarm, GPS, Android, Google Map

### 1. INTRODUCTION

In country like India, it's very difficult to visit places as there is no proper hoarding to point out the location. In these stressful situation users can configure a alarm for destination / target location. This application could be helpful for both long and short distance travel because cell phone now emulates computer's, with enhance graphical user interface, integrated GPS, wireless data connectivity efficient batteries, powerful CPU's (central processing unit) and expand storage capabilities.

### 2. SCENARIO

**Case 1:** Forgot to buy Mangos after weekly shopping?

Forget, no problem, location-based reminder will remind you.

**Case 2:** There are several colours, you can choose for your reminder. You can also choose radius of a circle for your reminder.

**Case 3:** Snooze and deletion are interesting feature. One can easily delete alarm can snooze the alarm clock, if you are still in reminded area.

### 3. METHODOLOGY

The methodology adopted for the design and implementation of project includes:

Design the project requirement, selection of an appropriate technology and implementation of various modules (set alarm, generate alarm and edit alarm).

### 4. DESIGN OF THE PROJECT

#### 4.1 System requirement

##### 4.1.1 Hardware requirement

SYSTEM	:	PENTIUM III 2.3 GHZ
HARD DISK	:	30GB
MONITER DRIVE	:	15 VGA COLOR
MOUSE	:	HP
RAM	:	1GB

##### 4.1.2 Software Requirement

CODING LANGUAGE	:	JAVA 1.8
TOOLS	:	ANDROID 8.0
IDE	:	ECLIPSE 3.6.3 Or Greater
BACK END	:	SQL

##### 4.1.3 Operating System

WINDOS'S XP(32 bits)
VISTA (32 bits)
WINDOW 10 (64 bits)

## 5. SYSTEM ARCHITECTURE

- The main idea of architecture is to embed various information in service trigger mechanism and service itself.
- For example, dynamic route guidance service.
- In reminder service, the service needs to decide whether or not to post the message to user according to user's location, incident property.
- It shows all the actions that a user could reasonably expect to be able to perform from the mobile device user software. Home screen provides options for searching/locating destination, activating alarm and delete alarm. It also shows the route for navigation purpose.

### 5.1 Work Flow

It can be divided into 5 parts which are:

1. Task manager component.
2. User management component.
3. Trigger management component.
4. Service management component.
5. Store and retrieval management.

### 5.2 System architecture flow diagram

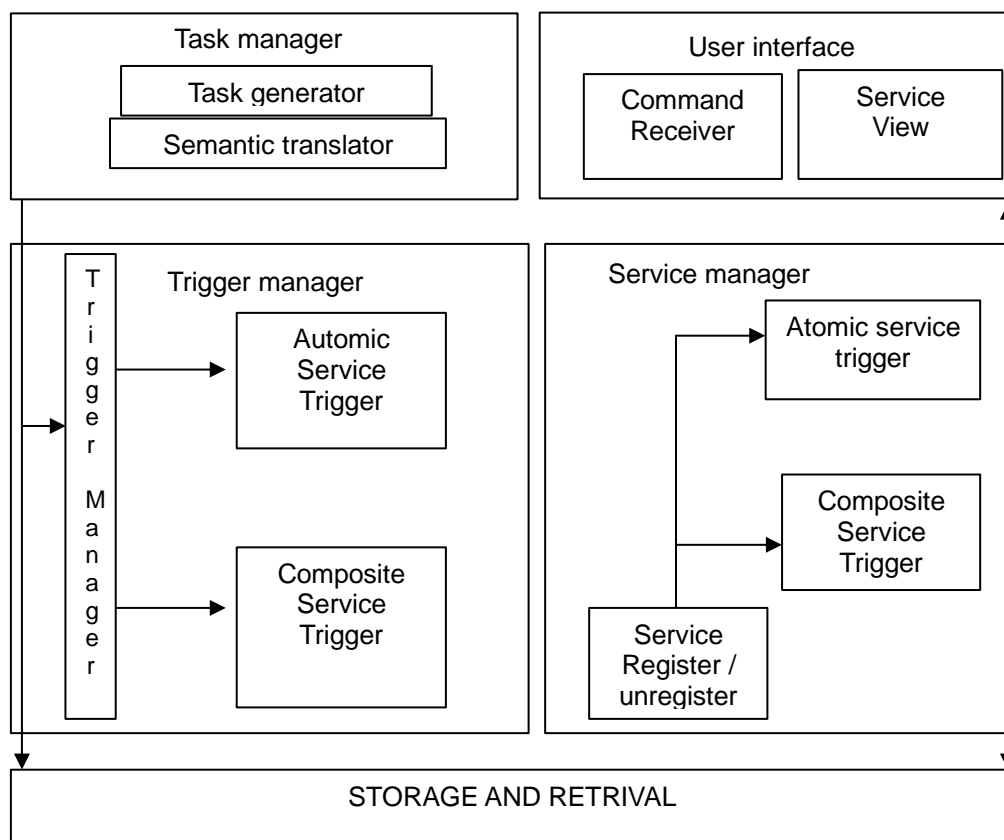


Fig. 1: System Architecture

## 6. BACKGROUND AND RELATED WORK

### 6.1 GPS and Google Map

- Connecting receive to PDA.
- GPS receiver are now embedded into mobile and have an application real time are widely available.
- GPS chips are now included in many devices to analyses Satellite signals and determine user location with high accuracy.

### 6.2 Location based services

- Location based services (LBS). LBS is mobile Services that has the capability to provide real time information based on user's location.
- Geographical information system (GIS) has been heart of LBS in order to provide all functions of LBS.
  - (a) We may send location information to any person.
  - (b) We may use location information to make communicate decision.

### 6.3 Information as per situation

- Different locations may require different communication.
- For example, videos/font conversation is not good when driving.

## 7. PROPOSED SYSTEM

Proposal of an integrated android application-based location information.

- (a) Creating and editing event content.
- (b) System to upload location information.
- (c) Search using location information of user.
- (d) Displaying search result on screen.

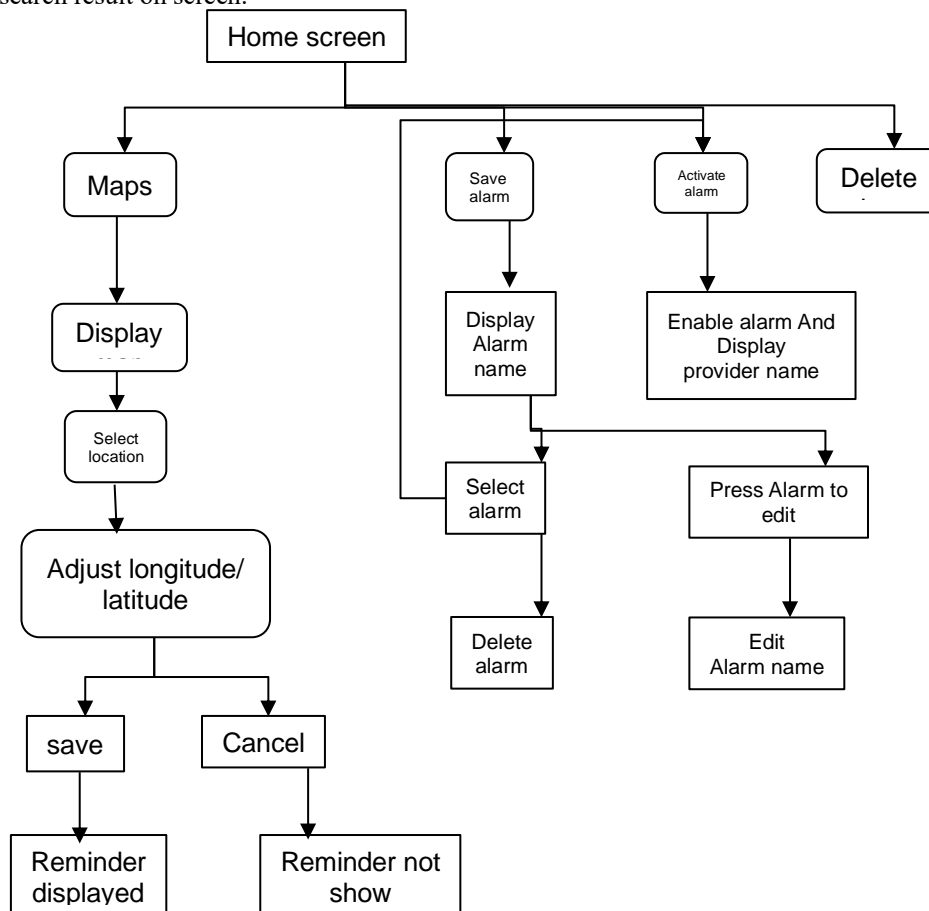


Fig. 1 Proposed system work flow

## 8. CONCLUSION AND FUTURE IMPROVEMENT

- This is paper focus on communication on related location-based services, GPS and System architecture
- In internet telephony system.
- Final system allows us to easily activate alarm in the mobile devices. Based on saved messages alarm will ring automatically and display reminder message when user reach target location.

## 9. FUTURE WORK

### 9.1 Scope of future work

Future application of this system is to include voice message. Voice message enhances the usability of the application. Currently system ringtone is used as the default ringtone.

### 9.2 Possibility of improvement

Possibility of improvement is the improvement in precision of GPS system positioning, activation of alarm with certain date and time.

## 10. REFERENCES

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