E-NOTIFIER: AN ANDROID APPLICATION FOR EVENT NOTIFICATION

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Abstract

Notice boards is primary thing in any institution/organization and they rely on wooden notice boards hanging on the wall to display announcements, which is a difficult process as a separate person is required to take care of the display. Now time has come for notice boards to have a facelift. They need to be transformed into hi-tech notice boards. The prime objective of "E-NOTIFIER" is to create a fully, fledged android application which would discover the events happening in and around the institution/organization so that no one will miss out being notified on interested events like conference, workshop, placements, etc. E-NOTIFIER has a largest collection of events and happenings in and around institution reaching out to the active user. Explore events by interest including sports, cultural events, alumni, etc., Follow your favourite event and get notified when they announce new events. Find local events around institution like inter institutional events, etc. User can browse events categorically from various category like sports, department, cultural, etc. happening in the institute with a single tap. Find events recommended to you.

1. Introduction

Smartphone is a common computational device that influenced by the most of people nowadays, which is the motivation to create an android application that its information can be easily reached anywhere, any time. In addition, it would be difficult to get notified from traditional notice board.
E-Notifier Application helps to access online notices of an organisation. It is an online notice board maker where a group of people can easily get the instant notifications. The notifications can be of different formats like .pdf, .doc, .rtf etc. The notice board has always been the place where staff/students gather to get their latest release of college news. E-Notifier brings the notice board to a virtual location where staff/students can not only read notices, but immediately react and respond to them using a blog provided in the application. With this event notifier and announcement system, notification alerts may be sent out notifying staff and students that a new notice has been posted, where staff may know if it concerns them directly, even the notifications related to staff meeting.

The user will receive notifications about all the events happening in the college like placements, seminars, conferences and cultural events. The user will not only be able to view but can also enroll to the events and can also ask queries or comment about the events. This option is made available through the blog. Another important feature is that different permissions are given to different users like, the authorized people like the Principal, HOD and faculties are allowed to add a new events and can also remove a registered user. The students are only allowed to view and register to the events, and can interact with the faculties.

2. Technology

**JavaScript Object Notation (JSON):** It is an independent data exchange format and is the best alternative for XML.

Steps of JSON Parsing are:
1. For parsing a JSON object, we will create an object of class JSONObject and specify a string containing JSON data to it.
2. An JSON file consist of different object with different key/value pair etc. So JSONObject has a separate function for parsing each of the component of JSON file.

**Android Operating System:** Android is an operating system based on the Linux kernel, and originally designed for smartphones and tablet computers. Android applications can be implemented in Java programming language using the Android Software Development Kit (SDK). The Android SDK provides API libraries and set of developer tools which are necessary to build, test, and debug an android application.

**PHP (Hypertext Preprocessor):** PHP is a popular open source scripting language which is suitable for web development. PHP is different from JavaScript because the code is executed
on the server and the output is sent to the client-side which makes the important code unknown. Instead of complicated HTML, the PHP code has special processing commands which allow newcomers to use PHP easily, and also provide advanced features for professionals.

**MySQL Database:** MySQL is the most widely-used open source Structured Query Language database management system, it is developed, distributed, and supported by Oracle Corporation. Database Management System such as MySQL server is needed in order to add, access, and maintain data stored in a database which is a structured collection of data.

3. **System analysis and design**

1. **System Architecture:**