

AICTE Activity information (AAI) mobile app by implementing in ORACLE

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Paper Presentation On Mobile app development

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ABSTRACT:

Android mobile apps is used to provide information regarding there college .Android is the fastest growing open source mobile device platform, which in turn is powered by Linux operating system. Android offers a simple yet powerful application development framework (C++/Java and XML) and open access to APIs to build richer mobile applications. Android is a software stack for mobile devices that includes an operating system, middleware and key applications. Today the AICTE college details are stored in AICTE website. It consists of more information about approved institution, government Scheme, rules and regulations, etc., It is related to engineering, technology, management and arts & science. It is difficult to traverse the website for searching the single information. To retrieve the information very fast, we develop a mobile application using **OracleDB** in effective manner and also provide useful information about approved institution for a state. It is useful to store and retrieve the information. It is an open source database. Documents in a collection need not have an identical set of fields. OracleDB was also designed with high availability and scalability in mind. OracleDB is easy for programmers and it is less complex in transactions.

Keyword: Android mobile, JSONS, Asp.net, notification, utilize databases, accessing of records centralized, android application, add mobility and automation.

1.INTRODUCTION:

India has the fastest growing telecom network in the world with many users moving towards Smart Phones and majority by students. Android is a reliable software development kit issued by Google in order to provide developers with a comprehensive set of tools for building Android applications. If used properly, the SDK(Software Development Kit) and JDK (Java Development Kit) is able to deliver state-of-the-art software for Android devices In other words, the SDK includes only the basic utilities for Android app development. The information which we get from our mobile in a cost effective way & student can get information easily & quickly .so, it is time saving Through this service one can access the complete information about the AICTE approved college campus such as courses available, admission procedure, placements, college events, achievements, statistics and faculty details etc.,

2.PROBLEM EFINITION:

The problem is to provide the complete information about the college campus. In which the college staff members,students and parents can access the information and will be familiar with college campus. It will provide interactive environment for the staff, students and

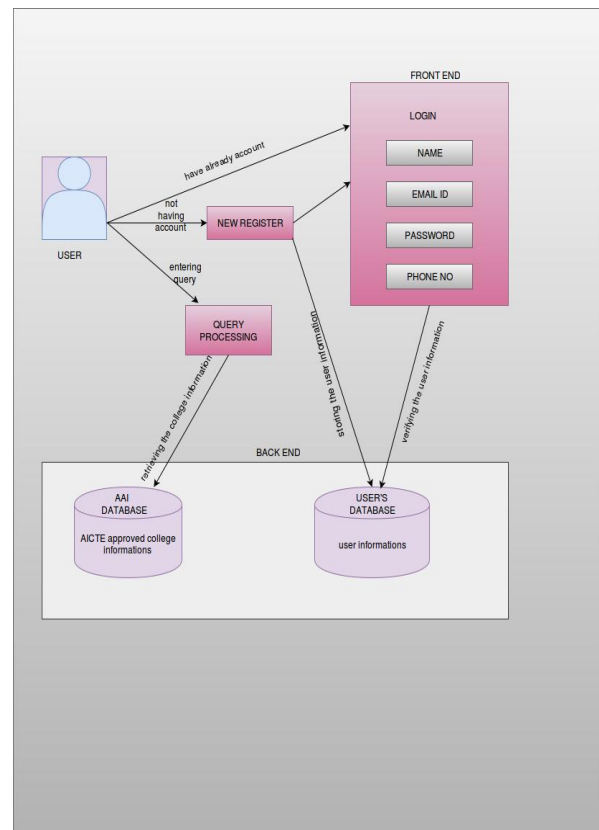
parents by getting knowledge of student attendance, remarks, exams performances, grades, timetables, notices etc . A student Should be able to login to the system through the first page of the Mobile Application, this will check using the database information that are already entered by the user in the registration page & Administrator can create users as per user requirement. The architecture of the System will consist of three components: an android application as the user frontend, a server application in the middle, a freely scalable number of service nodes for delivering the information to the mobile devices.

3.IMPLEMENTATION

- Requirement Gathering.
- Development of Graphical User Interface.
- Creation of Database.
- Server Side Implementation.

3.1.Requirement Gathering.

The requirement is collected by use-cases through which it was decided what objects and functionality should be given to Administrator, such as Login, Add/Update Student, Send Alert/Update, Post Event, Query Posting, and Add Resources. Then we decided the platform to build this application which is Android, what database we will be going to use which is MYSQL DB, which language should be used develop a web based application for administrator which is showed in below fig.



3.2.Development of Graphical User Interface:

After the initial collection of data, different user interface for the application have been developed. This included of login, home screens for user. User has to enter username and password for authentication. Upon successful login the user has to choose amongst the provided functionalities of the application. The mobile application is built using Android SDK on Eclipse IDE

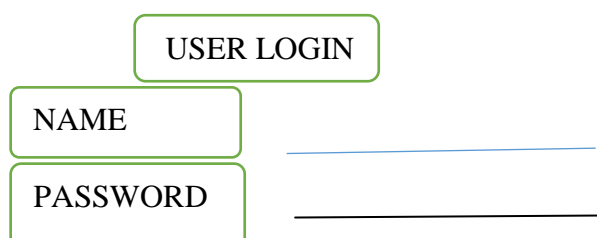
3.3.Creation of Database:

Most of the data of the application has been stored on the server side. The data in the database includes professor information for the directory, student information, book details and details of the events. The database maintained at the server

is updated in a timely manner to keep the user updated.

3.4. Server Side Implementation:

Web Services: To communicate with clients the server makes use of PHP web service. These interfaces can be used by the client to either send or retrieve data. JSON is used for the data interchange between server and client. *JavaScript Object Notation:* As an exchange format to communicate between server and client JSON is used. It is a structured way to store data in a text based format. The media type of JSON is application/json and is the only return type the server produces. To transform Java objects into a JSON format and vice versa the JSON library developed by Google is used. The POST and GET parameter can be passed to a Java method. Based on these parameters and the resource path the server gathers the requested information from one or more data sources and returns the result in JSON back to the client. The details about the directory, events and notices have been maintained at the server side database. Using PHP code the connectivity with the android functionality and database has been established. This information can be updated dynamically with admin access to the database which is secured properly and cannot be accessed without proper credentials.



A diagram of a user login form. It consists of three rounded rectangular boxes with green borders. The top box is labeled "USER LOGIN". Below it are two boxes: "NAME" and "PASSWORD". To the right of the "NAME" box is a horizontal line representing an input field. To the right of the "PASSWORD" box is another horizontal line representing an input field.

4. APPLICATION:

- Developing mobile app AAI is user friendly and made available in play store.
- Online assignments: This service provides the facility to faculty to upload assignment and notes to students to submit these assignments online.
- Android, backed by Google is the fastest growing open source mobile device platform, which in turn is powered by Linux operating system.
- Exam Notification: This facility notifies students and parents about examination schedule.

5. ALGORITHM STEPS:

Step1: Enter the valid email id and password

Step2: If user is not having the account, go to register.

Step3: User details will be store in USERDB.

Step4: Enter the required query in the search box.

Step5: User can sort the college details in District wise.

Step6: According to the query, information will be retrieved from the AAIDB.

Step7: AAI database will consist of Engineering, Arts and Science and Medical fields.

6.EXISTING SYSTEM:

- For displaying the AICTE approved institution they used the siebel framework technology.
- It displays all AICTE approved institution appears in a single web page. So it takes more time to search a particular college information.
- They are maintaining a centralized database for storing all college information under AICTE.
- It does not support with some other browsers like Mozilla firefox , Google chrome and etc.,

6.1.Drawbacks:

- ✓ Having bloating images.
- ✓ High bandwidth.
- ✓ JS libraries.

7.PROPOSED WORK:

To overcome the drawbacks in existing system of AICTE website by

- Developing a mobile application using oracle database for displaying the college information in district wise for a state.
- Displaying the college details and necessary information based on the user queries.

- Sorting the college name in district wise using database queries.
- Displaying the details of the college disciplines, infrastructure, faculty members and the placement activities.
- It is an open-source database. It is a relational database management system produced and marketed by Oracle Corporation.
- Using dynamic schemas of OracleDB, which create records without defining the structure, such as the fields or the types of their values.
- Developing mobile app AAI is user friendly and made available in play store.

7.1.Advantages:

- ✓ Fast access.
- ✓ Easily available.
- ✓ User friendly.

• **File Sharing:** - In this admin can also share the file suppose assignment so the file will be uploaded on A respective format.

• **Activities Information:** - Students can view details of schedules for various events. This will help students keep better track of extracurricular activities and events.

8.CONCLUSIONS:

Thus our project focuses on the development of a mobile application in campus environment that supports information services in campus environment. It is clear that there is a need for development for mobile services and terminals in campus environment and students are able to retrieve information at any time and at any location. The system can be further enhanced to become a more powerful and sophisticated system. There are still many aspects for improvement and enhancements of the system can be made in the future to meet changing needs of the students. Therefore, enhancement in the future will extend the usability of this system. We can include student attendance feature, event registration, and campus placement application and registration in future in our system and thus expand its scope.

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