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COLLEGE WIKIPEDIA – ANDROID APP FOR COLLEGE

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#### ABSTRACT

Today, mobile learning is a widely used technique because of its many advantages, including the ability to access learning content from any location, the ability to adapt the content to the needs of individual students, and quick feedback. Speech recognition software is used in modern technology to expedite the user input process, saving a substantial amount of time for each process. Students may receive more user-centric information services from a mobile student information system (MSIS) built on mobile computing and context-aware application ideas. This project's goal is to outline a system for giving employees and students pertinent information via a mobile platform. Design/methodology/approach. This project used a design-science methodology, which included surveys to support the system's relevance and the assessment of various system iterations using a mobile system acceptance model (MSAM). Findings-IN comparison to services is high. Originality/Value-There are several mobile systems that give students access to general campus information, and this paper details one of the few evaluated systems that offer this level of personalization.

Keywords: e-dictionary, word search, android-based application, mobile app.

# **INTRODUCTION**:

Smartphone use has increased significantly recently across many facets of modern living. Mobile applications, or apps for short, are actually being incorporated into crucial industries like m-banking, m-payments, m-health, and even military situations to name a few. Additionally, one of the fastest-growing IT industries is thought to be mobile app creation[2]. It is essential to shorten the development time of these apps while also enabling them to operate on a wide range of platforms and hardware due to the intense competition in the mobile app market. The creation of mobile apps is very dissimilar from the creation of conventional desktop and web applications, and it does have its own peculiarities, such as the requirement to work across various platforms.Today, a variety of platforms, including Apple iOS and Google Android, run mobile devices. The development of mobile applications can be done with native, m-site, or cross-platform technologies[3]. The native method makes use of programming languagesesigned specifically for particular mobile platforms, such as Swift for Apple devices and Java and Kolten for Android. This implies that the developed app can only be used on the platform for which it was made. Every mobile platform must be supported for a mobile software to succeed and become widely used. However, using the native method can be challenging because each platform will need its own mobile app[1].

# **RELATED WORK:**

There are several websites available for students regarding the information of the college or institute but there is a need for a mobile application regarding providing information to the students for easy usage. Several existing mobile applications were developed individually based on the platform it is implementing but we can develop the mobile application by using React native for both the iOS and Android.

# **RESEARCH PROPOSITIONS:**

By offering suggestions, the research issue that will be investigated can be addressed and the kinds of data that will be gathered are made moreclear. Additionally, it is beneficial to narrow the focus of the data that

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will be gathered because this makes it easier for the researcher to remain within the parameters of the research scope. We created three propositions that will be looked at in our study based on studies that have already been looked into in the literature. In the industrial settings, cross-platform development is a challenging approach that has not been thoroughly investigated. Automation testing in cross-platform applications may not be supported and effective as in other development approaches. The goal of this research is to explore and look into these claims.

# **PROPOSED SYSTEM:**

In the proposed system we implement student profiles and other information related based on keywords. This will help the college to know up-to-date information and an encyclopedia of the student data here we use keyword extraction and search optimization from the database using NLP[4].

### **STEPS TO BE FOLLOWED:**

React Native is a popular framework for developing mobile applications using JavaScript and React. In this tutorial, we will guide you on how to develop a mobile-based application for student and college information using React Native.

### Step 1: Setup your development environment.

Installing and setting up the required tools for React Native programming is required before we begin. For help setting up your work environment, refer to the official React Native documentation[6].

#### **Step 2: Define the project scope.**

Defining the project's scope is the first stage. We are creating an application for students and schools in this instance. Students should be able to obtain college-related information from the app, such as class schedules, grades, and campus news. The application should allow colleges to connect with students, publish notices, and offer resources[6].

#### **Step 3: Plan your application architecture.**

The architecture of our program must then be planned. We advise using a straightforward framework made up of the following four elements:

#### Navigation:

Enables users to browse between the application's many screens.

#### Screens:

Represents the various application panels or pages, such as the login, dashboard, and profile.

#### **Components:**

Reusable elements like buttons, forms, and lists may be used on multiple screens.

#### Services:

Handles the application's interactions with the server, including sending requests and retrieving data via APIs.

# **Step 4: Create the login screen.**

The login screen will be the first screen we make. Users should be able to enter their username and password on the login screen and send the information to the server for authentication.

# Step 5: Create the dashboard screen

The dashboard panel should be displayed after the user has been authorised. Relevant information such as class schedules, grades, and campus news should be visible on the dashboard screen. The dashboard interface should be navigated via tabs, with each tab showing a distinct piece of information.

# Step 6: Create the profile screen.

Users should be able to access and change their personal data, including their name, email address, and phone number, on the profile screen. Users should be able to upload a profile picture from this screen as well.

# Step 7: Create the announcements screen.

The most recent college announcements should be shown on the announcements screen. The announcements ought to be shown in a list view, starting with the most recent one.

#### **Step 8: Test your application.**

It's crucial to test an application extensively before distributing it. The most suggested approach is to test your application using the Expo tool on a real device or an emulator[5].

# **3.2 MODULE DESCRIPTION:**

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There are numerous cross-platform tools for building mobile apps, but Ionic might be more popular among companies than other options.

From the viewpoint of practitioners, React-Native is a promising technology because it is open-source and because its community is prosperous and expanding in the right way. This is so because React-Native is newer than the Ionic architecture. There aren't many studies that examine React-Native because it is a relatively new technology, but the most recent study confirms how well-liked it is among developers. An experimental research found that the widespread use of React Native was largely a result of the engaged community.

# **3.3 SYSTEM ARCHITECTURE:**

The student information system is one of the most useful systems. This system provides more benefits to students. In this system, there are two modules like student, departmental admin.First student can sign in to your account and can retrieve information by logging in to their respective accounts. Admin can view the activity history of the students. Admin can performvarious activities like login in, view user activities, giving permissions, updates,edit.



Fig.1.A. Shows the Use case diagram



Fig.1.B Shows the Sequence diagram for login page

# 1. Results :

# 4.1.1 Admin module:

Admin can login into the system by his/her credentials and perform some admin activities such as viewing registered candidates, viewing user activities, giving permissions, answers the questions, Update, edit, etc., usually the credentials for the admin would be 'admin' for username and 'admin' for password.

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#### 4.1.2 User module:

The user must sign up or register to access the system or mobile app. To register, the user must provide his username and password. The username can be given as a email id and the password must be unique and strong in order to not get hacked.e the user logged into their profile they can search for information they need.



Fig.1.D. Shows the Registration page

For example, if they want to retrieve the student marks they need to enter their college roll number and click the search button, then the search is performed and the information that has been asked would be displayed.



Fig.1.E Shows theHome page

# 2. CONCLUSION:

The advent of smartphone technology has made Android apps possible. Websites are disappearing and mobile phones are taking their place. It is time to switch from traditional websites to apps, which have already ingrained themselves into our everyday lives. We are launching an android app that is a scaled-down version of our college website. It can function as a small college management program as well as a website. In this paper, we've demonstrated how to use React Native to create a mobile application for data about students and colleges. The procedures for setting up your development environment, organizing the

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application architecture, and designing the various screens for the application and suggested system have all been discussed.

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