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PCE Connect

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Abstract— PCE Connect is a mobile application that serves as a valuable companion for students enrolled at PCE. It includes several useful modules that cater to the needs of students, making their lives easier and more organized. However, PCE Connect is more than just an app. It is a project that aims to support emerging developers at PCE by providing them with a user-friendly interface and comfortable environment. The app features an attractive interface based on Material UI, which is not only visually appealing but also encourages users to engage with the app for longer periods. Developing an application can be timeconsuming and requires expertise in software development, which is why PCE Connect has been carefully crafted to offer a seamless and intuitive experience for all users.

I. INTRODUCTION

As mobile automation becomes more prevalent, Android apps are replacing traditional websites. It is time to shift from accustomed websites to applications that have become a part of our daily routine. We are proud to introduce "PCE Connect," an Android application that serves as a miniature version of our college website. It is a multiuse scheme designed for the use of all PCE students and faculty. This app is a mobile app that provides a more comfortable user interface, allowing you to access location information, notes, faculty information, and a calculator all in one place. Additionally, the Android application serves as a navigator by collecting the user's current location and providing the shortest route to PCE campus through GPS.

PCE Connect is an application that aims to provide students at PCE with a companion app that contains several useful modules. However, this project goes beyond just being an app. It's an initiative that targets all emerging developers at PCE, providing them with a better user

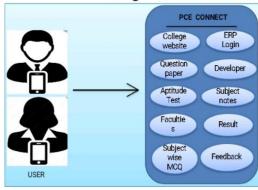
interface and more comfortable environment. The app uses Material UI, which attracts users to engage with it for a longer time. Developing an application is a time-consuming task that requires professional software knowledge, and as a result, people often wait for someone to develop an app or go to forums and request that developers implement their ideas. On the other hand, many enthusiastic developers are looking for ideas to implement, and this app aims to connect them. It will contain functional modules such as Aptitude Test, Technical Test, Code Radar, College Alumni, Notes, and Feedback. Additionally, the app already includes several modules such as College Website, University Question Paper, Location, University Result, and Faculty Detail.

II. METHODOLOGY

A. Application workflow

The below flow chart shows the flow of the planned program operation. It shows how well the system works. Shown in Fig.1.1

Flow chart or Proposed working diagram





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- The home screen of app will contain buttons such as College Website, College ID, Aptitude Test Paper of various company, Location, Faculties and Developers.
- It will also consist some new features such as subject wise MCQ's, subject notes, Feedback section for allocandidates.
- Later we will make it live on play store after its completion.

1. User Registration:

If the user wants to use the PCE Connect, they need register it by providing login information. Once, they register the registered information is stored on the server and can be validated, checking the valid credentials for the next time he logins with the application.

2. Website and ERP Login:

If the user wants to go to official website of our college, they can easily go by one tap. From their they can get every information such as admission, departments, examination etc. In ERP Login, user can get their academic details such as academic session, year, admission status, ID number, Course, Semester etc.

3. Question Paper:

In this block, user can find previous year question paper of RTMNU. This involves all question paper of CSE Department as well as First Year

Notes In this section user will get notes related to subject of CSE Department.

4. Aptitude Test:

In this section, we are giving information related to those companies who visited our campus over the years. (TCS, Cognizant, Infosys, Wipro, Amazon, Hexaware, HCL We are also giving Aptitude as well as Technical question paper with answer in form of pdf of these shown companies. Based on given Aptitude and Technical question paper, we are providing test combinedly, after giving correct answer, user get 1 point. As result, total score will be shown after test.

Thus, this are some featuring modules of this app.

ADVANTAGES OF APPLICATION

- PCE Connect" the android application software which would be a miniature of our college website.
- The whole project provides a base for students to get everything in one place like Login website, Aptitude & technical question with answer,

Previous Year question paper of RTMNU, Notes, Scientific Calculator, Location of our college, Result website, Faculties and Developers.

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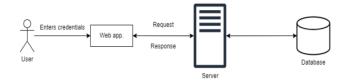
We will include features and operations in detail, including screen layouts.

The automated system helps students to save time and makes the process faster because simultaneously users can get everything in one place.

This application is a mobile app. It gives us a more comfort and better user interface PCE Connect is an app that aims to act as a companion app for the students of PCE (Priyadarshini College of Engineering, Nagpur).

LOG IN/SIGN UP FLOW

Design Approach This project is based on the functional design approach, which helps in understanding the design of the project in a simpler way by explaining its flow, use cases, and implementation more like a modular approach. For example, there are different modules in this project which have separate functionality and, other sub functionalities/modules. All the modules are designed, implemented, and integrated together to make a flawless working application.



III. SIGN UP PAGE

Student register form; From sign up form students can register themselves in our system.

The must provide information such as:

• Full Name • Email • Password • Phone no



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However, there are also potential challenges and drawbacks to consider. Gamification may not be suitable for all students or may be seen as trivializing the application process. Additionally, some students may not have access to the technology required for gamified applications, which could create an uneven playing field for applicants. There is also the risk that the gamification of college applications could detract from the seriousness of the process, leading to a focus on fun and entertainment rather than the educational and career goals that the application process is intended to support.

Overall, the potential benefits and drawbacks of gamification should be carefully considered before implementing this approach in college applications. It may be useful to conduct further research and pilot studies to determine whether gamification is a viable and effective approach for improving the college application process.

Personalized College Applications:

Personalized college applications have the potential to revolutionize the college application process by tailoring it to the needs and interests of individual students. This can be achieved by using student data to provide targeted recommendations suggestions for colleges, courses. extracurricular activities that align with the student's interests and strengths.

One potential benefit of personalized college applications is that they could lead to more successful college placements and better outcomes for students. By providing personalized guidance, students are more likely to apply to colleges and programs that align with their interests and goals, increasing their chances of success.

However, there are also potential challenges to implementing personalized college applications. One major concern is the accuracy and bias of student data. If data is incomplete or inaccurate, it could lead to incorrect recommendations or disadvantage certain students. Additionally, the use of student data raises ethical concerns about privacy and consent.

Another challenge is the potential cost and technical expertise required to personalized college applications. Developing and maintaining the necessary infrastructure algorithms to analyze and interpret student data requires significant resources and expertise, which may not be available to all colleges and universities.

4. Predictive Analytics in College Applications:

This is a great summary of the potential impacts of predictive analytics in college applications. In addition to exploring the benefits and drawbacks, this section could also discuss potential concerns around bias in the algorithms used for predictive analytics, and consider how to ensure that these tools are used in an ethical and equitable way. It's important to consider the potential unintended consequences of these technologies and ensure that they are being used to support students and not perpetuate existing inequities.

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VI. CONCLUSION

With the completion of this project, we conclude that it has achieved its purpose. The whole project provides a base for students to get everything at one place like Login website, Aptitude & technical question with answer, Previous Year question paper of RTMNU, Notes, Scientific Calculator, Location of our college, Result website, Faculties and Developers .The system is developed using Java as a back end programming language, XML as a front end programming language and data are saved in the database called Firebase. Android application is widely used as compared to websites. The automated system helps students to save time and makes the process faster because simultaneously user can get everything at one place. At the end it is concluded that we have made effort on following points...

- A description of the background and context of the project and its relation to work already done in the area.
- Made statement of the aims and objectives of the project.
- The description of Purpose, Scope, and applicability.
- We define the advantages to user of this application.
- We describe the requirement Specifications of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
- We included features and operations in detail, including screen layouts
- We designed user interface related to system.

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