

## DEPARTMENT APPLICATION USING ORACLE CLOUD SERVICES

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### Abstract:

There is a tremendous increase in users with an Android-based phone, Smartphone and tablet computers. This application provides generalized solution to monitor the various works that are carried out by a Department of College for managing it. “Department App provides a simple interface for maintenance of student information. This app will be praxis by students, lecturers, HOD and parents. It can be used by educational institutes or colleges to maintain the records of students. Department App deals with all kind of student details, academic related reports, department details, curriculum, batch details, placement details and other resource related details too. This proposed project will be implemented in applications such as online study material, notices, results and attendance, timetable, and all department records using Android applications. This paper aims to develop a department application for student & staff information System.

**keywords:** Oracle APEX, Home Page, Student Details,Marks,Attendance.

### I. INTRODUCTION

The title of the work is “Department App Using Cloud Techniques”. DAC is defined as an application build on web that is useful in providing information at all levels of a department. For the users of this system the administrator creates login IDs and respective passwords from which student/staff can easily access the system. This work is basically a website which includes attractive designs and proper arrangements of links and images. From department library to department yearly magazine, from staff rating to student’s feedback, every notice and upcoming events is showcased in this system. Placement and rooms/labs record are also stored in the system.[1] Many techniques and languages are used for implementation such as Gson, access flags, Android, MySQL. This system may be used for monitoring the overall activities as well as performance of the students. This work is being developed for an engineering to maintain and facilitate easy access to information. Oracle APEX has been designed from the very beginning to help developers build modern, beautiful, responsive applications without the need to become specialized experts Oracle APEX eliminates the complexity of developing and

deploying applications at all layers. The result is a low-code platform that is simpler, faster, lighter-weight, and lower-cost than the alternatives. Oracle APEX is easy to use and easy to learn. The Application Builder provides a rich, browser-based, intuitive interface which guides through the creation of applications. The powerful components of Oracle APEX enable to add a high-level of functionality to apps with limited coding. Oracle APEX is designed to build web apps which are highly secure out of the box. In a world of ever-changing web standards, evolving security standards, and resourceful hackers, the focus on security means that your applications stay protected and remain state-of-the-art. We can run Oracle APEX everywhere - on the Oracle Cloud, on-premises, or anywhere else there is an Oracle Database. And we can deploy our Oracle APEX applications across any environment with ease. With Oracle APEX, you can easily build web applications with essentially no knowledge of HTML, CSS or JavaScript. Oracle APEX is tightly integrated with Oracle Database and manages all of the processing associated with data manipulation in a database. If you have a basic understanding of SQL, you can build beautiful, responsive web applications very quickly. For data analysis, Oracle APEX is excellent, as it supports the full SQL language, which is the industry standard for data manipulation and aggregation. If you are familiar with HTML, CSS or JavaScript, you can also exploit your talents in Oracle APEX, to create highly customized UI's.

### **III.METHODOLOGY**

#### **A. EXISTING SYSTEM**

The existing system used PDA System which is implemented by Android Technology, Administration, Smartphone's, Database, and Internet. It is developed using Html, php, css as a frontend code and MySQL as a database. It has more code to executive the application. In this existing system the 2 major automaton tools used in Department sector namely, the PDA System, and Android based system. The user interface of Android based system is more attractive and informative than the PDA and Multi-touch systems.

#### **DISADVANTAGES:**

- Time consuming
- Require high storage capacity
- Difficult to modify the data
- Less Accuracy

#### **B. EXISTING SYSTEM**

This application is built by the cloud services provided by Oracle Apex and Oracle forms. Which can help to build both application page and Database. This proposed project will be implemented in applications such as online study material, notices, results and attendance, timetable, and all department records using Android applications.

ADVANTAGES:

- Consume less time
- Minimal Man power
- Paper-less management
- More accuracy

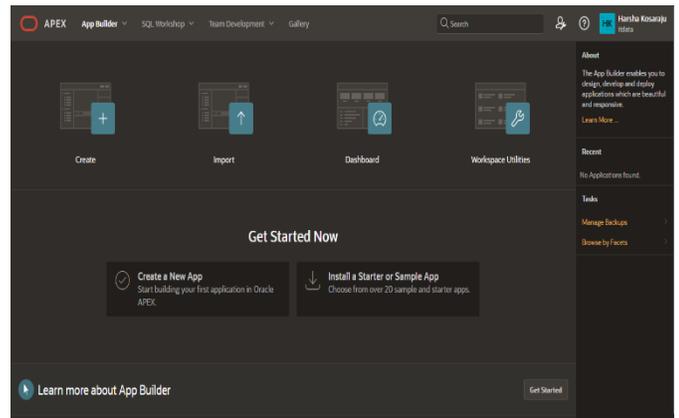
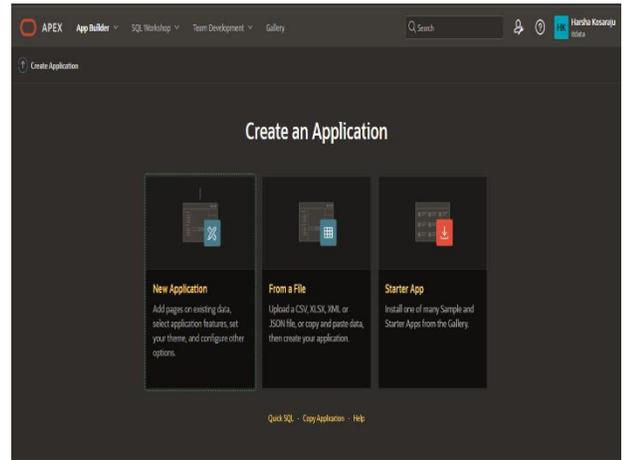
B. TOOLS USED:

1. HARDWARE REQUIREMENTS:

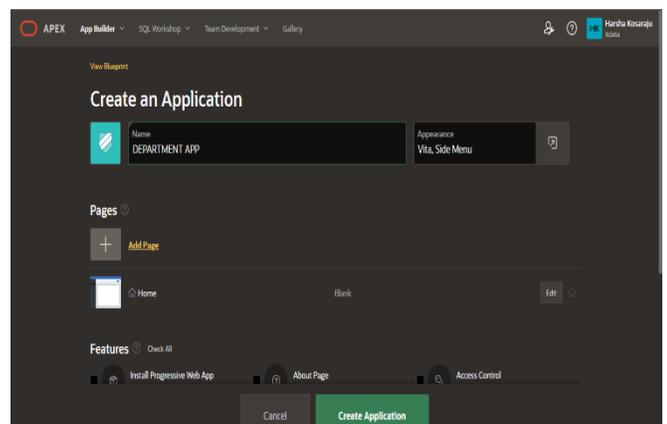
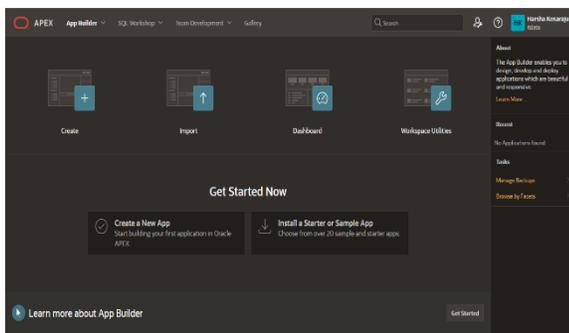
- System: Pentium Dual Core.
- Hard Disk: 512 GB.
- Monitor : 15” LED
- Ram : 6 GB

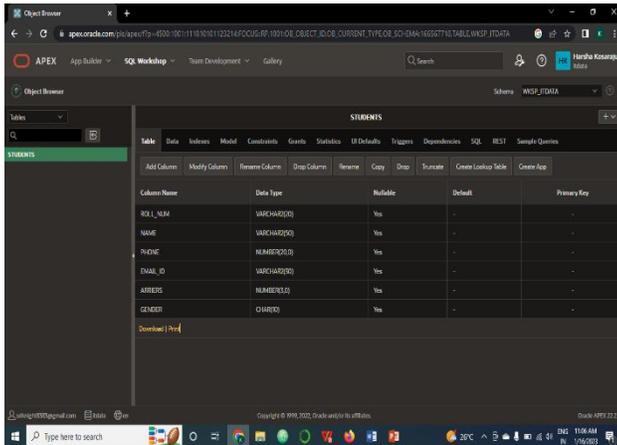
2. SOFTWARE REQUIREMENTS:

- Operating system : Windows 10
- Tool : Oracle APEX,
- Database : Oracle



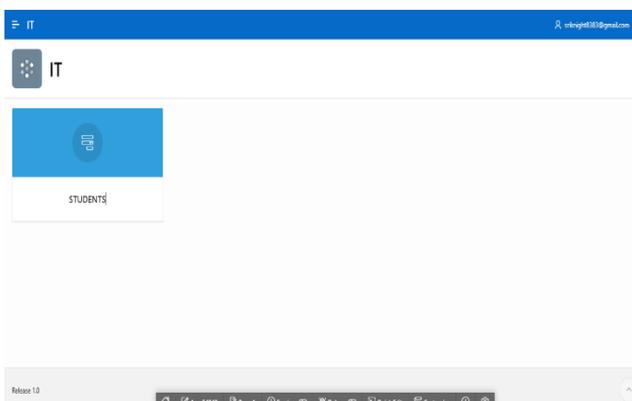
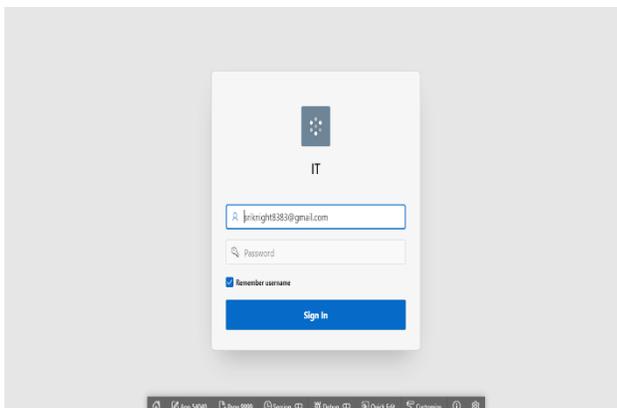
IV. OUTPUT SCREEN





## V.CONCLUSION AND FUTURE ENHANCEMENT

Furthermore, we also designed and developed the proposed system that can show the data in various fields like students marks, progress, projects, achievements, events participated by students, seminars conducted by faculty, Number of backlogs, placement details etc. and will be connected to the cloud database and also implementing auto message generated when the student will be absent. The student information will be more secured and easy way to access the data by the student and also Faculty. Student can easily upload or Download the notes, and also learn about the events and exams. Mainly the information will be secured and can be accessed by the faculty and admin easily.



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