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***Minor Project Synopsis***

*Submitted*

*In partial fulfilment*

*For the award of the Degree of*

***Bachelor of Technology (CSE-CT & IS)***

***In Department of Computer Science & Engineering***



Submitted By: Supervisor: Submitted to:

Sanchit Bhatnagar (160101241) Sushant Jhingran Dr. Nitin Rakesh

Harshita Sachdeva (160101118) Asst. Professor HOD (CSE)

**Department of Computer Science and Engineering**

**Sharda University, Greater Noida**

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**ABSTRACT**

The students form an integral body of any institution that they concern with. In addition, to deal with their everyday requirements and the storage as per their varied courses definitely involves a lot of pen paper work. Sometimes there will be a scarcity of a particular edition of a book in the library or there will be some huge heap of files and assignments bundled up and kept together in some corner of the office. If any student requires any material to be searched, then it can be obtained by just entering the course and the required subject. This study management application enables the student to add a personal touch by organising it any suitable form as they desire and also, provides the faculty some separate access rights to upload any assignments/marks for a particular class which is super secured and consistent.

It will also help in saving time and effort. The user interface must be user friendly and easy to understand. The information of the particular student will be obtained in just one mouse click.   
The WeNurture application thereby provides a rich, customisable and a secure solution for maintaining documents and/or references.

**1. INTRODUCTION**

Our WeNurture app lets you to define the knowledge framework in an efficient and in an organised manner. As the students form a very integral body of any institution that they concern with. However, the institution may find difficulty in keeping pace with the students’ needs and requirements of the study material on day-to-day basis. This Student Management System application will ease the work of storing the data orderly manner with proper versioning and access rights.

**2. FEASIBILITY STUDY**

The world is becoming complex day by day. As an institution grows, the number of enrolled courses, types of references, student details etc. might vary. Hence, there arises a need to maintain an organized way of documentation for every organisation. It has become a necessity to have an efficient and easy to use document management system by which documents can be maintained in an orderly manner, while keeping in mind the various levels of access rights and confidentiality.

**3. REQUIREMENT ANALYSIS (SOFTWARE & HARDWARE)**

* 1. ***HARDWARE REQUIREMENTS:***
     1. Android Device:

4.1.1.1 RAM: 2 GB or higher

* + - 1. Android Version : 6.0 or higher
    1. IOS Device:
       1. IOS Version: 10.0.2 or higher

4.1.3 Computer Device:

* + - 1. RAM: Minimum – 4Gb Recommended – 6Gb
      2. Graphic memory - 2Gb recommended
      3. Windows 7 or higher Or Ubuntu or Mac OS
      4. Storage Requirements – 10Gb
      5. Processor- Any processor with minimum 1 GHz processing speed.

***4.2*** ***SOFTWARE REQUIREMENTS:***

* + 1. React Native CLI
    2. Expo XDE
    3. Node.js
    4. Text Editor

***4.3 PREREQUISITES:***

* + 1. Basic JavaScript Knowledge
    2. Advanced ReactJS Knowledge
    3. React Native Knowledge
    4. Knowledge for Applications in Android and Android Studio
    5. Knowledge of Applications in IOS Devices

**4. PROPOSED MODULES**

* **College Administration :** In here, the admin can add, update, delete and maintain all data. And can

also provide the suitable access rights with proper administration.

* **Student Attendance :** The WeNurture college attendance software makes relief from manually

work of attendance fills. This module is basically going to reduce usage

usage of paper and maintains accuracy.

* **Data Management :**

This database module allows adding, updating and deleting data,

provision of student and employees.

* **Student Details :**

Using this module gives the track record of student activities, exam

results, contact numbers, etc.

* **Employee Details :**

Employee details and additional information can be extracted on single

click in the WeNurture employee management module.

* **ADDITIONAL FEATURES :**

1. Creating and changing issues are at ease.
2. Reporting and feedbacks in a more comprehensive way.
3. User accounts to control the access and maintain security.
4. Multi-level priorities and access rights.
5. Robust database back end.
6. Contains better storage capacity.
7. One-click access.
8. Interface is user-friendly and easy to work with.
9. Accuracy in work.
10. Easy and fast retrieval of information.
11. Decrease the load of the person involved in existing manual system.
12. Access of any information individually.
13. Work becomes speedy and efficient.
14. Easy way out to update information.
15. Easy to maintain.

**5. CONCLUSION**

It may help collecting perfect management in detail. In a very short time, the collection will be obvious, simple and sensible. It will help any person working in a institute to know the management of the passed year accurately. It also helps in managing all the current works relative to the Student Management System. It will also contribute to the reduced costing and collecting the management and collection procedure will thereby go on smoothly.

Our project briefly aims at computerizing various processes of the previously manually managed Student Management System.

* In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
* To assist the staff in capturing the effort spent on their respective working arenas.
* In computer system, the person has to fill the various forms and the desired number of copies of the forms can be easily generated at a single instance of time.
* To utilize the resources in an efficient manner by increasing their productivity through automation.
* It satisfies the user requirement working in any educational institution related jobs.
* Be easy to understand by the user and the operator.
* Be easy to operate.
* Have a good user interface.
* Can be delivered on schedule within the budget.

**6. REFERENCES**

***Toolkits:***

[1] Node Package Manager - <https://nodejs.org/en/>

[2] Expo XDE - <https://docs.expo.io/versions/latest/introduction/installation>

[3] React Native CLI - <https://facebook.github.io/react-native/docs/getting-started.html>

[4] Sublime Text Editor - https://www.sublimetext.com/3

***Websites for Reference:***

[1] Expo XDE Docs - https://docs.expo.io/

[2] React Native - https://facebook.github.io/react-native/