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Noarrear – An E-Learning Platform for College Students

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Abstract: Several variables, including a student's location, degree program, extracurricular activities, and responsibilities, can have a significant impact on how they live as college students. Even so, many students can relate to certain common events and facets of college life. Some of them are listed below, i) Academic load: College students usually have a significant academic load that entails attending lectures, taking part in discussions, finishing assignments and projects, preparing for exams, and doing research. ii) Social life: College offers numerous opportunities for mingling and making friends, whether it be through clubs and organizations, residence halls, campus activities, or just chatting up people in the hallways. iii) College students must learn effective time management skills to balance their obligations to their studies, their social lives, and their personal lives because there are so many demands on their time. iv) Financial stress: Tuition, housing, textbooks, and other expenses put a lot of college students under financial stress. This frequently results in internships or part-time jobs to help them supplement their income. v) Stress and mental health: For some students, the strain of juggling their academic obligations with their personal commitments can cause stress and mental health problems because of which many universities provide counseling to support students dealing with these difficulties. Overall, college life can be rewarding and challenging, offering chances for development and self-discovery as students balance their social, academic, and personal lives. Through this dissertation I would like to address the problem and solutions with respect to arrears.

Keywords: academic, stress, mental health, internships.

1. Introduction

With the advent of the modern era, we can observe that there is a shift from agricultural to industrial and now technological revolution. The percentage of the service sector in GDP's growth is increasing not just in India but across most parts of the world. Everyone has a role to play in making this world a better place to live from lawyers, engineers, doctors, accountants, civil servants and other professions. College life is a common link to all these professions. Getting a degree is evident to land a better job but the study pattern of graduation is quite different to that of school education. A better CGPA helps a student in multiple ways. With help of this research project, we will try to uncover the causes and effects of arrears and a possible solution to prevent arrears in exams.

2. Background

Arrears are the most commonly heard word in colleges and universities, and their phobia haunts every unprepared student during semesters. With the help of this dissertation, I would address the causes, effects, and prevention and build a platform that could serve as a one-stop solution for all the aspirants who wish to score more, learn more and be fearless when it comes to arrears. Being an engineering graduate, I was fortunate enough to observe and experience the student's mindset, which is probably the major reason for arrears. As Lord Buddha rightly said "What we think, we become".

3. Objectives

Objectives are the soul of every project as it highlights agenda and execution of a successful project. The objectives of my project are as follows.

A. Find out the major causes of arrears

Many factors and causes can contribute to a student falling behind in their academic obligations or failing to pass their college or university exams. The following are a few of the most typical causes,

- i. Lack of preparation: Many students don't spend enough time or aren't very interested in studying for their exams. They might wait until the last minute to study or procrastinate, which frequently results in subpar performance.
- ii. Insufficient understanding of the subject: Some students might find it difficult to comprehend certain concepts or topics, which makes it difficult for them to perform well on exams.
- iii. Insufficient attendance: It's important to show up on time if you want to comprehend the material and keep up with the coursework. Students who frequently miss class may find it challenging to catch up and perform well on exams.
- iv. Distractions and problems with time management: Students who are preoccupied with social media, video games, or other activities may find it difficult to effectively manage their time, which will affect how well they do on exams.
- v. Health issues: A student's ability to concentrate and do

well on exams can be affected by health issues. The way in which a student performs academically may also be adversely affected by problems like anxiety, depression, or other mental health issues.

- vi. Language barriers: It may be difficult for students who are not native speakers of the language of instruction to comprehend the coursework and do well on exams.
- vii. Personal problems: Problems with the family, money, or relationships can interfere with a student's ability to concentrate on their studies, which can result in subpar academic performance.
- viii. Coursework that is difficult for students: Depending on the subject matter and teaching methods, some courses may be particularly difficult for them. Due to this, it may be challenging for students to keep up, which could result in arrears.

It's important to remember that there are a variety of additional causes for students to fall behind on their payments, and that every situation is different. To create effective solutions to support student success, it is essential to identify the root cause.

B. Analyze the crucial effects of arrears

A student's academic and professional career can suffer from having backlogs or poor grades in college or university. Following are major effects of it,

- Delayed Graduation: Backlogs and poor grades may cause delays in graduation, which can increase the time and expense needed to finish a degree program.
- Reduced Career Opportunities: Employers frequently seek candidates with strong academic records, and low grades can restrict employment prospects as well as chances for internships and other professional experiences.
- Limitations on Further Education: Poor academic performance may also restrict opportunities for graduate admission or enrollment in professional certification programs.
- iv. Reduced Confidence: Poor academic performance can cause a person to feel less confident, which can have an impact on their future academic performance and personal growth.
- v. Financial Consequences: A lot of scholarships, grants, and other types of financial aid require a certain GPA to be maintained. It may be challenging for a student to continue their studies if their grades drop below the necessary standard and they lose their financial aid.

In order to increase their chances of success in both their academic and professional lives, students must take their academic performance seriously, work to raise their grades, and stay ahead of their workload.

C. Learn how to prevent arrears

Backlogs and poor grades in college or university can be avoided in a number of different ways. Here are a few pointers,

Time management is essential for success in college.
Make sure you leave enough time in your schedule for

- homework, assignments, and extracurricular activities. Don't put off completing assignments and don't wait until the last minute.
- ii. Attend all classes, even if they are optional: Attend all classes. You'll gain a better understanding of the ideas and stay current on the coursework if you do this.
- iii. Create study habits that are efficient for you to use when you are learning. You could, for instance, try taking notes during lectures, summarizing them, and going over them frequently. Flashcards, mind maps, and other visual aids are other options you can try to help you remember key ideas.
- iv. Don't be afraid to ask your professors, tutors, or fellow students for assistance if you need it if you are having trouble understanding a concept or assignment. Attend office hours and raise any questions you may have in class to get any doubts cleared up.
- v. Stay organized by keeping track of your deadlines, assignments, and notes. To keep track of deadlines, tests, and assignments, use a planner or calendar.
- vi. Consider your physical and mental well-being when taking care of yourself. Get enough rest, work out frequently, eat a healthy diet, and take breaks as needed.
- vii. Take assistance from E-learning platforms that provide concept videos, notes and doubt-clearing bots/sessions.

This advice can help you succeed academically and avoid dropping out of school or getting low grades in college or university.

D. Design an E-learning platform to assist students

Here is a conceptual illustration of an eLearning platform that could be useful for college and university students:

- User authentication: Users must create an account on the eLearning platform and log in using their email address and password. As a result, only authorized users will be able to access the platform and its contents.
- ii. Course Dashboard: After logging in, users are taken to a course dashboard where they can access all of their courses, keep track of their progress, and see when they have assignments or tests due.
- iii. Course Catalog: Students can enroll in courses through the platform, which will offer a catalog of them. The catalog will be organized by type, level, and subject (e. G. Lecture-based, lab-based, etc.). A description, syllabus, and instructor bio will be provided for each course.
- iv. Course Materials: All course materials, including lecture notes, homework, tests, and quizzes, will be available to students. These resources will be available through the course dashboard, topic-organized.
- Discussion Boards: Each course will have a dedicated discussion board where students can post queries, exchange thoughts, and work together on projects. Additionally, instructors will be able to post notices

- and answer questions from students.
- vi. Virtual Classroom: The platform will offer a virtual classroom where lecturers can give live lectures, hold office hours, and lead group discussions. As well as video conferencing, chat, screen sharing, and virtual whiteboards, the virtual classroom will also have other features.
- vii. Quizzes, tests, and assignments can be created and graded by instructors using the platform. The grading scheme will be flexible, allowing teachers to give different types of assignments different weights and, if necessary, grade on a curve.
- viii. Analytics: The platform will give teachers and administrators data on student performance and engagement. Instructors will be better able to pinpoint areas where students may be having difficulties and offer targeted support as a result.
- ix. Support: Students can chat and raise tickets on support portal regarding academic and career guidance.

Note: This is an initial design and is subject to change as I will proceed with Ph.D. on Edtech in near future to understand the optimum design and implementation in order to pave the way for entrepreneurial journey. An initial prototype of the product can be found here.

4. Scope of Work

The primary scope of this paper is to understand causes and effects of arrears and design an E-learning platform for students where they could not just prepare for their semesters exams but could get a bird eye view of career too.

5. Future Work and Recommendations

This paper will serve as a catapult for my further research (Ph.D) and would assist me with the foundation for my startup journey but I feel it still has lots of research which can be prepended into it. I have highlighted the major ones below,

- i. How to utilize artificial intelligence to create more individualized and flexible learning environments.
- ii. More study should be done to determine how well edtech tools work and how they affect student learning outcomes.
- Investigate how virtual and augmented reality can improve student engagement and educational experiences.
- iv. Examine how gamification might enhance the fun and efficiency of learning.
- v. Examine how edtech can help close the achievement gap and advance educational equity.

The paper revealed the causes and effects of arrears, along with preventive measures and the idea of an edtech to resolve this issue would be compliant only when the platform overcomes factors like cost, convenience, design and being result proof.

6. Conclusion

With the advent of the digital era, the internet has become an

indispensable part of student life, from assignments and projects to last-moment preparation. Students heavily depend on it; therefore, providing a solution in terms of an e-learning platform can greatly impact students' grades. In the meantime, I would also like to highlight that conceptual and skill-based learning will be the major pillars of the next version of my E-learning platform.

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