



Derivatives and Integration Assist App

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Abstract: This Project is based on the idea of making an application which makes it easier for students who are struggling to comprehend derivatives and integration. The Application will be created by using JAVA, so that it remains platform independent.

Keywords: Mathematics, learning application, derivatives, integration.

I. INTRODUCTION

One of the most difficult things for students is failure. According to the research done by Research Society, on an average around 30% of a class fails in at least 1 subject, the result may vary depending from class to class. Out of this 30%, around 19% fail in Mathematics. So the application that our Project will be based on will be a user friendly Derivatives and Integration Assistant that will help master these topics and overcome this hurdle. Based on a survey done by them all most all of these students confirmed that they failed due to Derivatives and Integration. The application will be based on making Derivative & Integration more fun for students. It will include many multiple choice questions (MCQ) like games for learning the formulas and many quizzes for their practical use in problems. This application will be very useful for many students are struggling through Mathematics. To make the application more fun and competitive there will be a score board for students to verify their own growth.

II. PROPOSED SYSTEM

A. Making learning fun:

As we know the most boring and the faced problem student face is learning from book, Yes learning from book is probably the most boring thing ever but and by those picture less books students lose their interest before starting to read. Now here after they will not, because students will enjoy learning from our app which is so user friendly that they never get bored of it.

B. Solving student's doubts with ease:

So will doing self study students face many problems and their doubts get solved on the next day when they visit schools/colleges and in this their time gets waste and effort too. So what over app will do is it will solve their doubts at the same moment and it will save time and efforts of the students. It will solve their doubts by using different test cases so that they must get clear through concepts.

C. No need to join classes:-

As we have such qualified teaching staff with us that students don't need to join online classes. Our teachers will provide lecture regarding the topic and will be understandable than physical lectures.

D. Lifetime free access:-

According to a survey done in 2017 by Hindustan times around 75% of students leave school because of poverty. Thus, our app will provide these students with a chance to learn for free too. As long as their wish to learn new ways always open. As our moto is too provide education.

E. App is flexible according to user's time:-

Students are required to do many things in their day and their schedule is soo jam pack that they don't get time to adjust classes time. But by using our application they can learn whenever they want and they don't get problem regarding its timing.



F. Students preparing for entrance exams:-

Students preparing for entrance exams are always jam packed. Even a minute of rest is expensive for them. They give their all in preparations to score well to clear entrance exams. And in such a situation derivatives and integration is one of the main topics in their exams too. Thus this app will be very helpful for them too.

III. ACTUAL IMPLEMENTATION

A. Home page :-

An interactive homepage that will be the main interface that will guide the user through all the available activities in the application.

B. Derivatives formulas :-

An activity that contains various formulas that are important while solving derivatives

C. Integration formulas :-

An activity that contains various formulas that are important while solving derivatives

D. Practice questions :-

Various practice questions that are available for the user to further enhance their knowledge

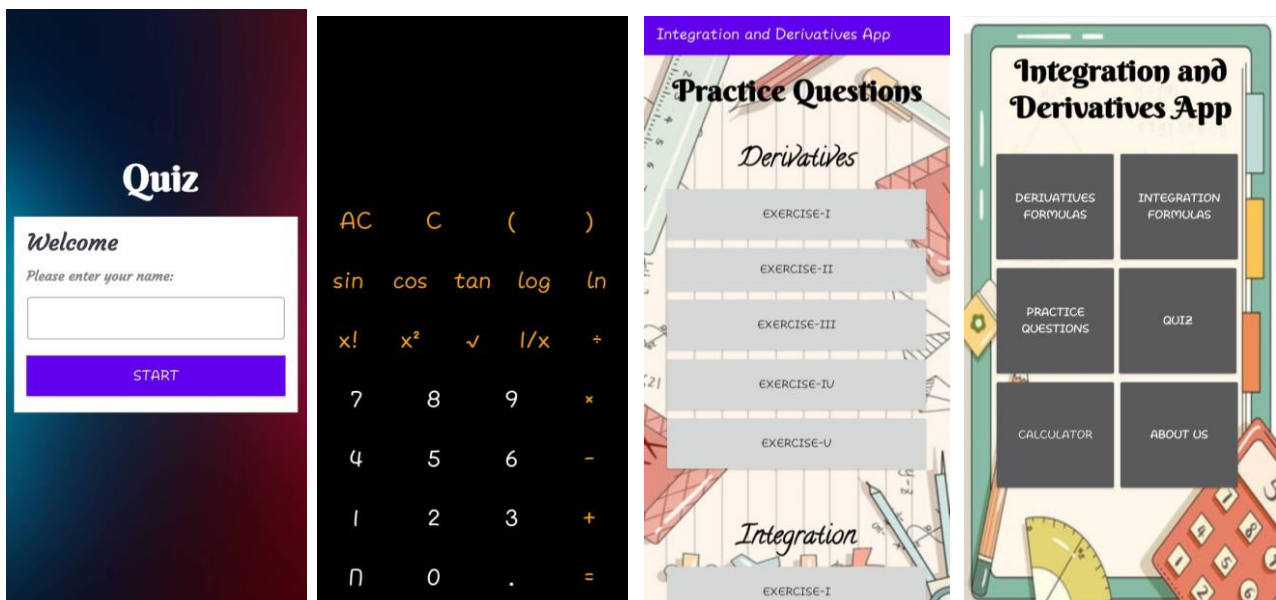
E. Quiz :-

A quiz for the user to test their knowledge and problem solving skills.

G. Scientific Calculator :-

A scientific calculator for calculating

IV. PROJECT SNAPS





V. CONCLUSION

So we conclude that we have made a useful and effective project for learning mathematics in a interesting way and by taking education to next level. Students will find this application more effective and useful for learning. As our aim to is to provide the better education than other platform so to take a edge we will not charge and it will be free of cost. So here we conclude that we have made a successful application

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