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Open-Source Digital Platform for Pune Engineering College Admission

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II. objectives

Three things are the main goals of this project:

students choose engineering schools in Pune, India based on their 1. To create a thorough database of pertinent data regarding engineering colleges in Pune and to undertake a thorough literature review.

2. To create an open-source online tool that helps students choose a and JavaScript are all components of the tech stack needed to create suitable engineering school based on their qualifications and

> 3. Create the platform with ease of use, accessibility, and operation in mind for all users, regardless of technical proficiency.

> We did a thorough literature review using a variety of sources, including academic articles, governmental reports, and college websites, to accomplish the first goal. Rankings of universities, typical compensation packages, cut-off percentages, programmes that are offered, and other relevant information are among the data collected.

> The second goal was achieved by using the compiled database to create an open-source online tool that helps students choose the best engineering schools. The platform offers consumers thorough college information that is organised in a hierarchical style, including university ranking, average package, and cut-off percentages. Students can also use the platform to sort and filter the data according to their choices and eligibility.

Abstract:

This study describes creating an open-source online tool to help qualifications and preferences. The portal offers an extensive database of pertinent information about universities, including university ranking, average package, and cut-off percentage, and is created to be simple to use and available to everyone. HTML, CSS, the platform. This paper addresses the platform's goal, method and preferences. design, and implementation as well as any potential effects it may have on Pune engineering student's decision-making

I. Introduction

The selection of a college for an engineering education can have a significant impact on a student's future and quality of life. It can be overwhelming to navigate the abundant options available in India. The schools for engineering located in Pune offer diverse programs and opportunities, making it challenging for students to select the best one. To address this problem, we have developed this digital platform. available for free that provides personalized guidance to students seeking a suitable engineering institution based on their preferences and qualification. The objectives, method, design, and implementation of the platform's potential influence on the Pune engineering students' decision-making process



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The platform's user-friendly and accessible design helped to achieve the third goal. Users may quickly and easily obtain pertinent information thanks to the platform's user-friendly design.

III. Methodology

The following steps are part of the technique used to construct the digital platform:

1. Literature review: To compile pertinent information regarding engineering colleges in Pune, a thorough review of the available resources, including scholarly articles, government reports, and college websites, was carried out. Rankings of universities, typical compensation packages, cutoff percentages, programmes that are offered, and other relevant information are among the data collected.

2. Development of a database: Using the information gathered, a thorough database was built to house and arrange data about Pune's engineering schools. The database was created to be quickly searchable and sortable using a number of criteria.

3. Platform development: A technology stack made up of HTML, CSS, and JavaScript was used to create the digital platform. These technologies were selected in order to ensure the platform's compatibility with different devices and browsers due to their wide popularity and simplicity of usage.

4. Platform layout

The platform's design was created with the user in mind, emphasising simplicity and usability. Users can concentrate on the material and make educated decisions thanks to the design components, which were carefully chosen to offer a clear and easy user experience. The platform's front end incorporates interactive elements that enhance user interaction, such as filters, sorting options, and auto-complete search.

5. Evaluation and testing: The platform was put through extensive testing to determine its dependability, accuracy, and usability. To further hone the platform and make sure that it satisfies the requirements of its target audience, feedback from potential users was also gathered.



6. Front-end development: HTML, CSS, and JavaScript were used to create the platform's front end. Users can concentrate on the material and make educated decisions thanks to the design components, which were carefully chosen to offer a clear and easy user experience. The front-end also has interactive elements like filters, sort options, and auto-complete search.



7. Back-end development: JavaScript was used to create the platform's back-end, allowing for easy interface with the front-end elements. Processing user input, database queries, and output presentation are all handled by the back-end. Fast reaction times and little downtime are ensured by the back-end's efficient and scalable design.

8. Database integration: The portal was combined with the extensive database of engineering colleges in Pune, enabling users to search, sort, and filter the data based on several criteria such university ranking, typical package, and cutoff %. The platform's data will always be correct and up-to-date because the database was made to be quickly updated.



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V. Possible Effect

The open-source digital platform has the potential to have a substantial effect on how Pune engineering students make decisions. The portal enables students to choose institutions based on their preferences and eligibility by offering thorough and organised information about colleges. Students from various backgrounds can make efficient use of the platform because to its user-friendly layout and accessible design.

Additionally, the platform can help engineering colleges in Pune by enhancing their visibility and giving them a chance to highlight their advantages to potential students. The platform's open-source nature also enables ongoing development and adaption to the changing needs of its users.

VI. Conclusion

In conclusion, the creation of an open-source online tool to help students choose engineering schools in Pune has been discussed. The portal offers a thorough collection of pertinent data about institutions and was created to be user-friendly, accessible, and educational. The platform has the potential to have a substantial influence on Pune engineering students' decision-making and to improve both their academic and professional lives.

Future work on this project may involve broadening the platform's coverage to include additional cities or even nations as well as investigating additional factors that might affect students' college choice decisions. The platform can also be expanded to include new services like mentorship programmes and career counselling. We can make sure that the platform is a useful tool for engineering students in Pune and beyond by consistently enhancing it and modifying it to meet their needs.



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