

UNICHOICE: Your College Matchmaker

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Abstract-The Unichoice web application revolutionizes university selection by offering a user-focused platform for prospective students. Recognizing the critical importance of this decision, Unichoice simplifies and enhances the selection process with advanced algorithms that analyse user preferences, academic achievements, and personal criteria to recommend universities tailored to individual needs. By seamlessly integrating data on academic programs, campus facilities, and student reviews, it provides a comprehensive view of each institution to support informed choices. Its intuitive interface allows for easy exploration of a vast global database, with search functions enabling filters for majors, location, admission requirements, and extracurriculars. The app offers real-time updates on admissions, scholarships, and campus events. Unichoice emphasizes inclusivity through multilingual support and accessibility features, accommodating a diverse user base. Cross-device compatibility further enhances access to crucial information. This review emphasizes the app's effectiveness in user preference analysis and community engagement, showcasing Unichoice as a vital tool for navigating university selection.

1. INTRODUCTION

The “UNICHOICE” project is a challenging plan for improving the college opting process for all the students who are going to be students. It might happen that bitter development of both student’s educational and personal life can happen due to wrong choice of college. For an individual choosing a right college is very important. To make it easy for the students we created “UNICHOICE” app which is easy to use for every user even those who are not experienced in the field. The software, with the use of advance algorithms, then, scrutinizes the user’s preferences, academic achievements, and personal criteria so as to come up with a list of personalized institutions. By collecting information such as academic score and location preference, “UNICHOICE” provides a list a college according to the needs and wants of the user. It provides user with an incognito mode to use, so that if they do not want to fill in their personal information, they can just use the application in an incognito mode which will let the user to access the application without any trust issues.

2. LITERATURE SURVEY

The proliferation of University Finder Apps reflects the increasing reliance on technology in navigating complex decision-making processes, particularly in higher education. These apps offer a variety of features, from personalized search filters to virtual campus tours, aiming to streamline the university selection process for prospective students. This review paper aims to critically assess the existing literature on University Finder Apps, highlighting their role, effectiveness, and implications for students' decision-making after completing 12th grade.

In paper [1] titled "An Android Application for Campus Information System" by Reetu Malhotra, Deepak Kumar, D.P Gupta; published in 2020 by Elsevier B.V explains about a model for an online campus information system for undergraduate students as well as university faculty was designed. Information gathered employing structured interviews from a recognized University. The collected data enabled them to prepare an android application for the campus information system which aimed to help students as well as faculty in the best possible way.

In paper [2] titled “An Android Application for Course Guidance and College Finder” by Ajit Thorat, Tanvi Pugaonkar, Viraj kambel, Jyoti Mobakar, Prof. Sachin Barahate; published by International Journal of Scientific Research in Computer Science, Engineering and Information Technology, 2017conducted a systematic review focusing on the user experience design aspects of University Finder Apps. The paper evaluates the usability, accessibility, and overall user satisfaction with these apps, offering insights into design considerations for developers.

In Paper [3] titled "College Finder & Recommender Web Application System’ by Nishank Samant, Nikhil Manjarekar, Ashwini Mhavarkar, Ashutosh Nagaonkar, Prof. Medha Kulkarni; published by theInternational Journal of Scientific Research in Computer Science, Engineering and Information

Technology, 2017 IJRCSEIT, is a college finder system which provide a wealth of tools and information that assist individuals in their postsecondary educational endeavours. This makes it easier for prospective students to locate a college or university suited to their personal needs and tastes as well as get appropriate recommendations based on their current academic profile.

In Paper [4] titled "Up-Learn" by authors Prajwal Dubey, Anish Ashtaputre, Soham Sahare, Prof. Harshali Rambade; published by the International Journal of Creative Research Thoughts (IJCRT), 2022, the students and teachers collide with each other by sending connection request. If the user has any doubts regarding academics, the user can post their problem in the application and there will be someone or the other to answer or review the user's problem.

In paper [5] titled "Higher Education Recommendation System" authored by Simran Gajbhiye, Pratiksha Sawant, Chaitrali Shinde, Balika Somwanshi; published by JETIR in May 2020 analyses students' academic marks and test scores to recommend the most suitable stream and college based on their performance. Machine learning facilitates this process by offering various algorithms tailored to different types of data and prediction needs, enhancing the accuracy and effectiveness of educational guidance.

3. CONCLUSION

Our web application will have additional features which will make it easier for students to use the app. The features are:

1. **Localized Information:** The app will provide specific information on accommodation, transportation, cost of living etc for each college. This feature will be very much beneficial to the students who will be moving from another city. They will have a better understanding about the location and facilities available around the college.
2. **Personalized Recommendations:** The app will have a recommendation algorithm which will work on each student's specific preferences considering their career choice, academic performance, financial situation, geographic location etc. This personalized approach can save students time and make the college selection process more enjoyable.
3. **Cultural and Social Aspects:** It will also

include information about the campus culture, extracurricular activities, fests, and social atmosphere of each college.

4. **Incognito mode:** The app will allow students to explore colleges and universities even without entering their personal information like phone number or email id. They can enter their preferences anonymously and the application will give the best result possible.

5. **Comparative Analysis:** Enable students to compare multiple colleges side by side, highlighting key factors such as placement statistics, faculty expertise, infrastructure, and available courses. This feature simplifies the decision-making process and empowers students with data-driven insights.

6. **Faster Load Times:** PWAs are known for their fast-loading speeds due to caching and efficient resource handling. Students with slow internet connections will appreciate a website that loads quickly, ensuring a smooth and frustration-free browsing experience.

7. **Installation Flexibility:** Unlike traditional mobile applications, PWAs do not require installation from an app store. Users can add our PWA to their home screen directly from the browser, saving storage space and reducing friction in adopting the platform.

8. **Continuous Updates:** With a PWA, we can continuously improve and update your platform without requiring users to download and install updates manually.

4. SUMMARY

Our project aims to help students make informed choices, reach their full potential, and have a memorable college experience. Our platform offers resources to explore different career paths. By using the unique features of a progressive web app (PWA), our college selection platform can stand out in a crowded market. We provide personalized recommendations, incognito mode, information about surrounding, highlight cultural aspects, and offer interactive experiences to attract and engage students. We're developing a web application due to mobile-first approach of students. We'll ensure faster load times, which will improve user satisfaction and encourage more students to choose our platform over others. User experience is a top priority in our development process, and we will actively seek user feedback to continuously improve and refine our PWA. Unichoice aims to simplify the college selection process by centralizing information,

providing personalized recommendations, and fostering a supportive community. With Unichoice, students can explore their options, discover their potential, and begin a fulfilling college journey that matches their unique goals and aspirations.

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