Personalized Mobile Search Engine Based Application for Engineering Admission

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Abstract: We propose a personalized mobile search engine based application for engineering admission that captures the users’ preferences in the form of concepts by mining their clickthrough data. This system provides online comprehensive solution to provide information regarding various Universities, their courses and admission procedures for admission seekers in courses or Programs. The system dedicates its resources to becoming the best university possible and giving students the resources in Engineering Colleges and Courses to help them become competent professionals. Web search engines gives users an initial point for their information hunt. The problem with the traditional search engine is that it retrieves the same set of web pages for all users even though each user has their own preference for a particular search. For retrieving web pages based on user’s preference personalized search is needed. This concept network consists of list of related concepts based on the history of users’ previous search.

1. Introduction

Personalised search is the process of searching a set of documents or web pages by giving preference to the user’s interest. User interest is identified by from the user profile, which is created by analysing the sites searched by the user. Accuracy of the system is improved as a personalized search which can predict the user’s interest better compared to a normal search. At present, the web search engines are built to serve all types of users, and independent of the particular interests of any individual user. Personalized search incorporates the personal interest of users in the search process, in order to retrieve relevant information required by a particular user. The search engines are used to find information from the internet. As the quantity of web pages is rapidly increasing. Users are in need of information depending on their area of interest [3].

1.1 Personalization

Personalization is about tailoring information about anything, like search college, web pages, services, etc., to better for user. To achieve effective personalization focus must be on the user needs, preferences, interests, expertise, tasks, tailoring information either to large or smaller interest groups. The roots of personalization of information Department of Computer Science & Engineering, systems can be traced back to the early adaptive user-interfaces, personal assistants/agents, and adaptive information retrieval. Most of the approaches started with users’ needs, preferences and expertise. Other approaches involve detecting patterns in user behavior when searching for information.

The information currently being examined, the applications in use, when, and so on. Individual oriented search encompasses other elements of personalization like the user’s goals, past information seeking behaviors, among others. These factors are more generic and are applicable to any Personalized Information Retrieval system. Spatial factors like find queries used, Pages Visited, Semantics between the search queries and the visited pages, Order/sequence of page access, Browsing behaviors/actions, User interests, watch users browse the web, and recommend new pages that correlate with a user profile, gather and store more historical information about a user’s interactions, it is necessary to develop models that span tasks and applications.

Hence personalized search systems that heavily depend on user’s browsing history might miss such pages. In order to identify relevant pages from unvisited page category, this part of research work focuses towards identification of content based link between the visited and unvisited pages, from both visited and unvisited category. The system proposed generates a graph based user profile using the set of pages visited by a user.

1.2 Purpose

The aim of PMSE based application for Admission System is to computerize University admission process for higher education courses. Its basic objectives are to extend their reach to geographically scattered students, reducing time in activities, centralized data handling and paperless admission with reduced manpower. Its other factors are cost cutting, operational efficiency, consist view of data and integration with other institutions. Main challenges are effectively sync internal and external
operations in such a manner that job can be finished within time limit and integration with different agencies on an agreed upon common data format.

1.3 Objective

The main objective of this system is to reduce consumption of time during maintaining records of college of engineering admission process. Separate division are provide to maintain record of student and fee details. In other word our college admission process has following objectives:

- Simple database is maintain. Easy operation for the operator of the PMSE application system.
- User interfaces are user friendly to visited colleges. It take very less time for operator to get use to with system.
- Admin must be able to send message user profile to confirm tentative admission.
- User must be able to join a particular group according to their interest.
- User must be able to send query to admin.

The main objective of the existing system is to provide a user-friendly interface. The system, which is proposed, now computerizes all the details that are maintained manually. Once the details are fed into the computer there is no need for various persons to deal with separate sections. The security can also be given as per the requirement of the user and those requirements are: Large volumes of data can be stored with case. Flexible maintenance of file or data is possible by using this system. Records stored are updated easily without more efforts. be generated with case. Accurate calculations are made, and the more important advantage from this system is less manpower required.

2. Related Work

Personalized Search uses the pages browsed by the user to create a user profile. The user profile can be created based on two factors they are Links browsed by the user or click history and Concepts searched by the user.

Some Personalized Search Engine creates the user profile based on the links clicked by the user. The user profile contains users click history. When the user searches next time the search engine first searches the links stored in the user’s profile and then it searches in other pages. user’s positive as well as negative interest is considered while creating user profile. Negative interest denotes those interest that user are not interested in. In other methods only one user profile is created however it is not sufficient to detect user’s interest as it can change. Personalized search engines based on concept network, creates the user profile based on the concepts browsed by the user. The concepts are extracted from the pages browsed by the user. A personalized retrieval tools for searching educational resources on internet was available for academic use[5].

The main aim of our project is to develop the application which will be useful in engineering college admission system. As this college management system project includes the admission process of student, starting from when the student takes admission in college in first year till that student completes his course and collect leaving certificate from the college[6]. The requirement of the student is to:

- Login to the system through the first page of the application.
- New student registration after logging into the system.
- View menu such as Search; cut off; News; Feedback; Scholarship; HelpCenter.

Can get help through the help option to view different features of the system. Admin login should be present who can read as well as remove any uploads. College admin counting the users as well as view the status of user.

3. Features

This system having following features:

- Admission seekers should be able to search for information about institutes in desired fields.
- Facilitating the institute management to upload the information about the respective Institute/student after verification by the administrator. The general users can discuss their queries that are answered by experts. Getting feedback from the general users about the quality of counseling and the information provide.
- User interface are user friendly and attractive. User must send queries to help center.

4. Module Description

The Modules are:

1) Admin
2) College Admin
3) User
4) Feedback
5) About
6) Event
7) Contact

1) Admin:

It provides the information’s about the various college’s and courses. It add the information related to the college. It add the event related information to the college. It views the information or feedback from the general users about the quality of counseling and also providing some information to the user.
2)-College Admin :
It view all the details of visited users. It communicate to the user. If user interest increasing then college admin send the registration form to confirm the admission of college.

3)-User :
It views all the details of College according to their cut-off. It views all the course details It views the college intake details. It asks offline/online requests to help center. n User can give the feedback.

4)-Feedback:
It gives the responses.

5)-About:
Information related to website.

6)-Event:
It views the recently conducted event to the colleges.

7)-Contact:
Contact us provide the any problem solution.

5. SCREENSHOTS OF THIS PROJECT

5.1 Homepage

5.2 User Home Page

5.3 Admin Home Page

Fig 5.3 :- Admin Home Page

5.4 College Admin_Home Page

Fig 5.4:- College Admin_Home Page

6. CONCLUSION

In this way we are going to develop personalized mobile search engine based application for engineering admission, which is helpful for Reduction in manual work so less manpower required. A personalized search engine improves the efficiency of the search engine by creating user profile by analyzing his search pattern. The software has been developed using Java as front end and Oracle as back end in Windows environment.

REFERENCES


