

## Snakbok – The Placement Assistant

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**ABSTRACT**— This paper is about a project whose main purpose is to solve the problem related to placement drive and make it easier for both the faculty and students. All the data will be stored at a single place in a database which makes it easier for students, staff and recruiters to access the files. All these tasks have been completed successfully and results were up to the expectations. Snakbok is basically a system which automates activities of training and placement cell by providing opportunities to the student intelligently to increase selection ratio and eases out the process of management automatically. This is a website which can be easily accessed through mobile on the go.

**Keywords**—Web based application, Server Optimization, Real time monitoring, XAMPP

### I. INTRODUCTION

In current scenario, student do not get exposure to the real life. They just make themselves so busy in study books, scoring high CGPA and many other activities like this. In order to scoring high CGPA, they just focus on the learning part and forgot the application of the concept in the real life. Now-adays, students mainly are placement oriented but they do not get the right guidelines regarding the placement drives, companies, need of the companies and technologies which are in trend. So, we come up with this idea of making a webpage for helping such student where they can find all the needed information at one place. The basic advantage of this project is that it is time saving as it saves the time of the student which was wasted in browsing the same information on different sites.

Snakbok aims to provide the experience of those students who have faced the company interview and it also aims to provide a platform where they can chat with the senior person according to their interest. In addition, they will also get some more information which will help

them to face interview with confidence.

There are following users: Placed students, Faculty, Students. Students who are requesting this webpage can have their queries regarding their field of interest and may also interesting in getting information about company. Placed Senior and Faculty who are using this webpage can give the answers to the questions asked by the student. The student will get to know about the experience of the seniors who have faced interview and will get to chat with any of the senior person who is already a expert in the field of interest in which they have query.

### II. RELATED WORK

Many placement Chatbot designs have been proposed in the past few years by various authors [1-5] in their research work which aim to provide the user with various career options and jobs recommendation after extracting the information about user's current job status and their educational history from their messages. The authors in [1] propose a Natural Language Processing (NLP) module to translate students' queries during conversation to structured data in order to understand the institute's services.

Similarly author in a research paper [3] suggested AIML (Artificial Intelligence Mark-up Language) to make response to queries. The proposed system in [5] has Online Enquiry and Online Chatbot System. The development was done using various programming languages by creating a user friendly graphical interface to send and receive response. The author in

[10] has proposed a artificial chatbot using NLP (Natural Language Processing) which can be done in two ways the first via written text and the second is via verbal or voice communication. In a research article, authors have also proposed a college enquiry chatbot system which has been built by using Artificial Intelligence algorithms.

The bot analyses user's query and understands user messages. The system has modules like Online chatbot, Online Notice boardsetc.

### III. METHODOLOGY

Our methodology is designed to help take maximum advantage of the internet technologies. It incorporate all aspects related to our website and allows us to ensure that the final product is of the highest standards. Below are the steps we will take to ensure that all your deliverable are completed in time, within budget also we will try to solve each and every problem efficiently.

#### REQUIREMENT ANALYSIS

Many questions are analyzed for the Needs Analysis stage like primary goal of the website, who will be visiting the website, what will be the purpose of their visit, how can our website best cater to users' needs etc. We analyzed our online target audience and assess differentiation strategy to best attract and retain online visits. Website will also undergo comprehensive search engine analysis twice during course of program.

#### FORMULATE DIGITAL STRATEGY

Based on the needs analysis, we determine the factors that will best serve the website like age range, educational achievement, college tier, etc. We looked at trends in the market to ensure that our project have the latest technology, components and elements so that website can sustain any upcoming future needs.

#### WEB-PAGE CONCEPTUALIZATION

We will develop three custom built and high end website design templates, incorporating

marketing and communication strategy. The finalized concepts or templates will then be used for two other internal pages to give an understanding of how internal content intensive pages will look. At this stage, we will submit design and concepts for review and feedbacks.

#### WEB DEVELOPMENT

After receiving acceptance of the detailed design, we proceeded to the HTML development CMS configuration phase. Keywords are used throughout the development. The HTMLs are prepared in accordance with the prescribed standards. Our team has developed understanding of the CSS, XHTML, XAMPP etc. Once all development are done, we proceed to the Testing phase, where features of website and the Content Manager System is tested rigorously. Once the preliminary testing is done, we then proceed to the multi-browser test, where our website is tested over major browsers such as IE, Firefox, Safari as a standard practice. We would also analyze browser and platform statistics of website at the planning phase to ensure that our new website is built accordingly.

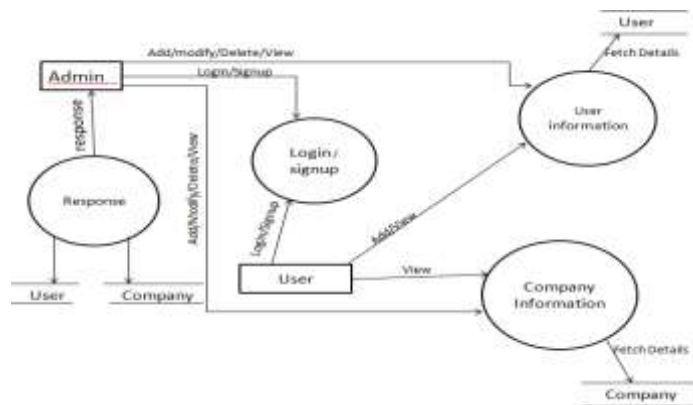
#### PRE DEPLOYMENT PHASE

Once the data as been ready, we submit the site for review for final feedbacks. Once cleared, we will setup the site on the server where it is going to be deployed.

#### WEBSITE HANDOVER

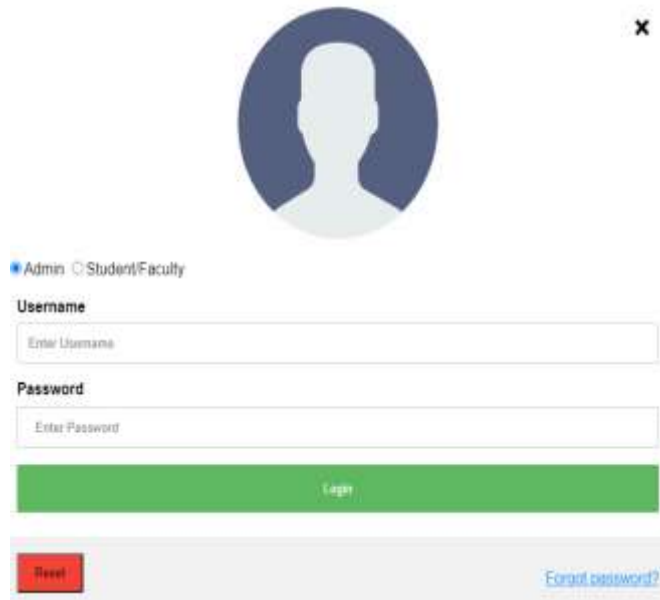
Once the site is setup on destination server, based upon feedbacks we will make the website live.

#### DFD ( level 1 )




### SCREENSHOTS OF PROJECT

Login page



The screenshot shows a login interface with a dark blue header containing a user profile icon and a close button (X). Below the header, there are radio buttons for user roles: 'Admin' (selected) and 'Student/Faculty'. The form includes two input fields: 'Username' with the placeholder 'Enter Username' and 'Password' with the placeholder 'Enter Password'. A green 'Login' button is positioned below the password field. At the bottom, there is a red 'Reset' button and a blue link for 'Forgot password?'.

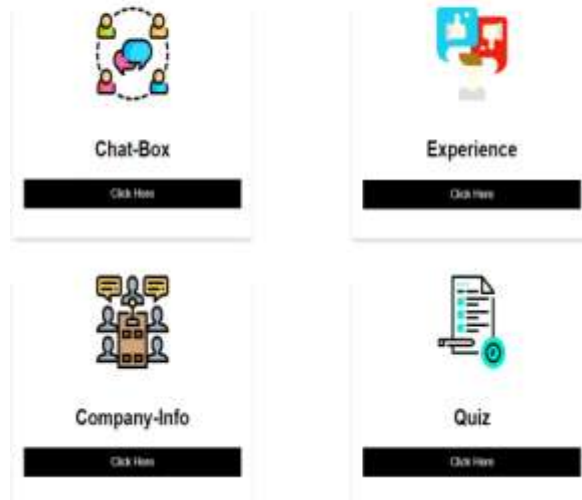
Home page



The screenshot displays the home page of the 'SNAKBOK' application. The top navigation bar features the 'SNAKBOK' logo on the left and a 'Logout' button on the right. The main content area is titled 'HOME' and contains three buttons: 'ADD USER', 'DELETE USER', and 'UPDATE USER INFO'. Below these buttons is a 'List Of Users' section with a search and filter interface. A table with the following headers is visible: 'USER ID', 'USERNAME', 'E-MAIL', and 'PHONE NO.'. The table body is currently empty. On the left side, there is a dark sidebar with a user profile icon and a 'Welcome Username' message. The sidebar menu includes links for 'HOME', 'CHAT BOX', 'COMPANY INFORMATION', 'FEEDBACK PANEL', and 'MESSAGES'.

Services page

## Services



Chatbox



There are three external machines/devices used by the portal, each related to a user interface. These are a server machine at the admin end, hosting the portal, a PC at club's end, keeping log of the registration and membership entries made to them & providing them with an interface to do their part of functionality offered, last one is a PC or a smart phone at user's end to access the portal. The devices at the user end behave as terminals and not for storing any type of data. Also capable of taking user input. All order and transaction should be stored on server.

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## V. CONCLUSION AND FUTURE SCOPE

This system has been developed in the interest of students and to enhance the placement process. The successful implementation of this project will bring about a drastic change in the placement activity, thereby benefitting all who are involved in it. The above proposed placement management system would serve as a solution placement problems faced by placement cell and students by filling the gap of right opportunities at right time for right individual.

In future, we are planning to map the current status of students from different sites like so that we can judge the competency of users in a better way and provide them with more personalised job recommendation and when we have enough outrage, we have planned to collaborate with other reputed institute's professors to help students with the placement activity.

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