GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING (AUTONOMOUS)
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COLLEGE PREDICTOR

Department of Computer Science and Engineering

The project thesis entitled COLLEGE PREDICTOR for VIII semester, B. Tech in Computer Science and Engineering being submitted by

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ABSTRACT

- From the past several years, getting the admission into various engineering colleges in India are mainly based on the engineering entrance exam. There are multiple engineering entrance exams in India at national and state level. The acceptability of the entrance test score varies from college to college and state to state.

- This web service collects the user preferences in various fields such as rank, career opportunities, medical care, hostel facility, etc. With the help of data from the database and the Django framework we will display the list of selected colleges as per user preference.

- The result(list of colleges) include columns such as Eamcet Code, College Name, Course Code, Place, Contact Number, Website, NBA Accreditation, NAAC Rating, NIRF Ranking, Preferences Match %.

- It also provides various services including user authentication and automated mail service.

EXISTING SYSTEM

- College Predictor helps students make decisions for choosing a right college. Students face a lot of difficulties to secure an admission in the college of their choice.

- The current scenario of an engineering admission process is little complicated and not so easy in terms of selecting an appropriate college according to the scores and field of interest.

- There are many colleges offering multiple engineering courses. So it becomes troublesome for students to organize and list-out the proper colleges of their choice for courses according to their performance score.

- The college predictor uses past years colleges cut-off data for predicting the most probable colleges including the students personal preferences. Based on that, it predicts the likelihood of a student to enter into a university or college.

- The smart list generator would enable the student to prepare the list of colleges, which could be needed to be filled in during the admission process.

PROPOSED SYSTEM

- Our proposed College Predictor is a web-based application, where student inputs his/her competitive rank like that of Eamcet, Caste and Gender. These three are the key attributes for any placement in any college under any Board Of Education, especially in India.

- To display the result(list of colleges), the student need to fill a small form in the Homepage and click on submit. In a few seconds result shall be displayed on a webpage.

- It provides user authentication and stores the user data using sessions. When the user requests for the list of colleges to their local storage, we will provide the data response through automated mail service based on the information stored in sessions
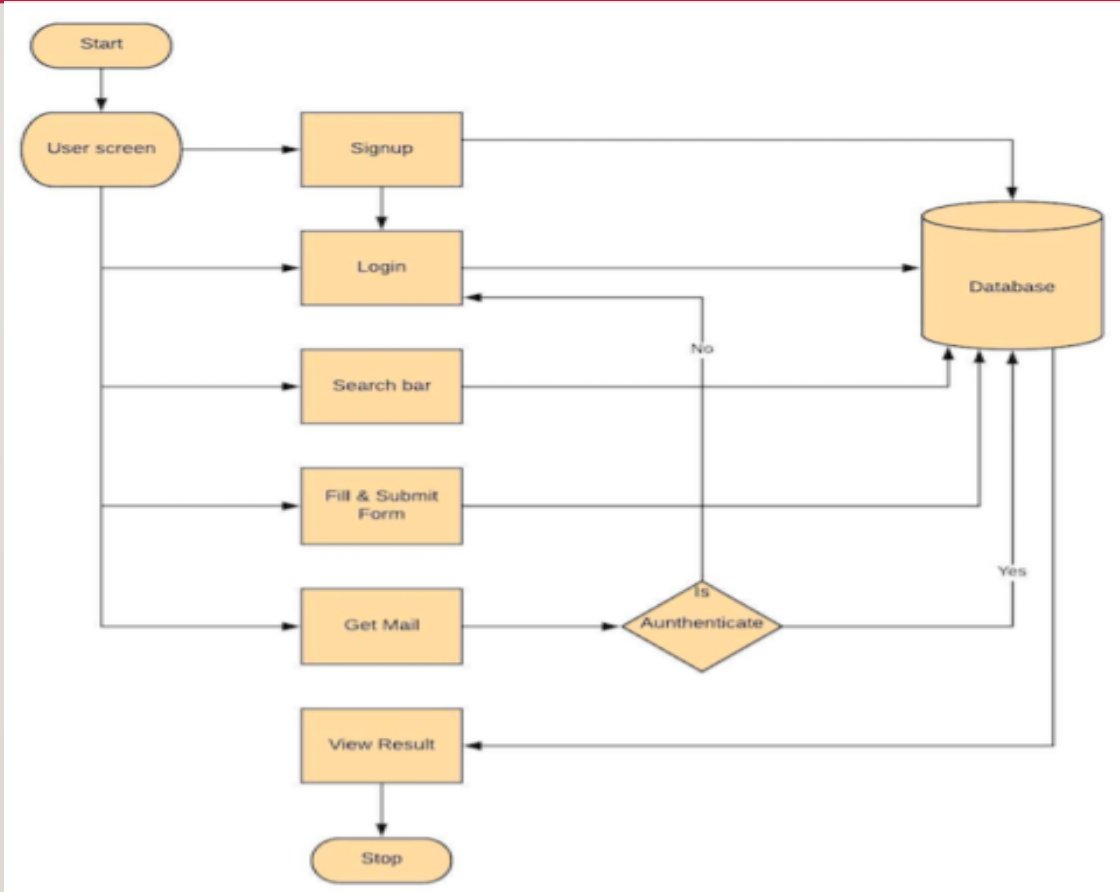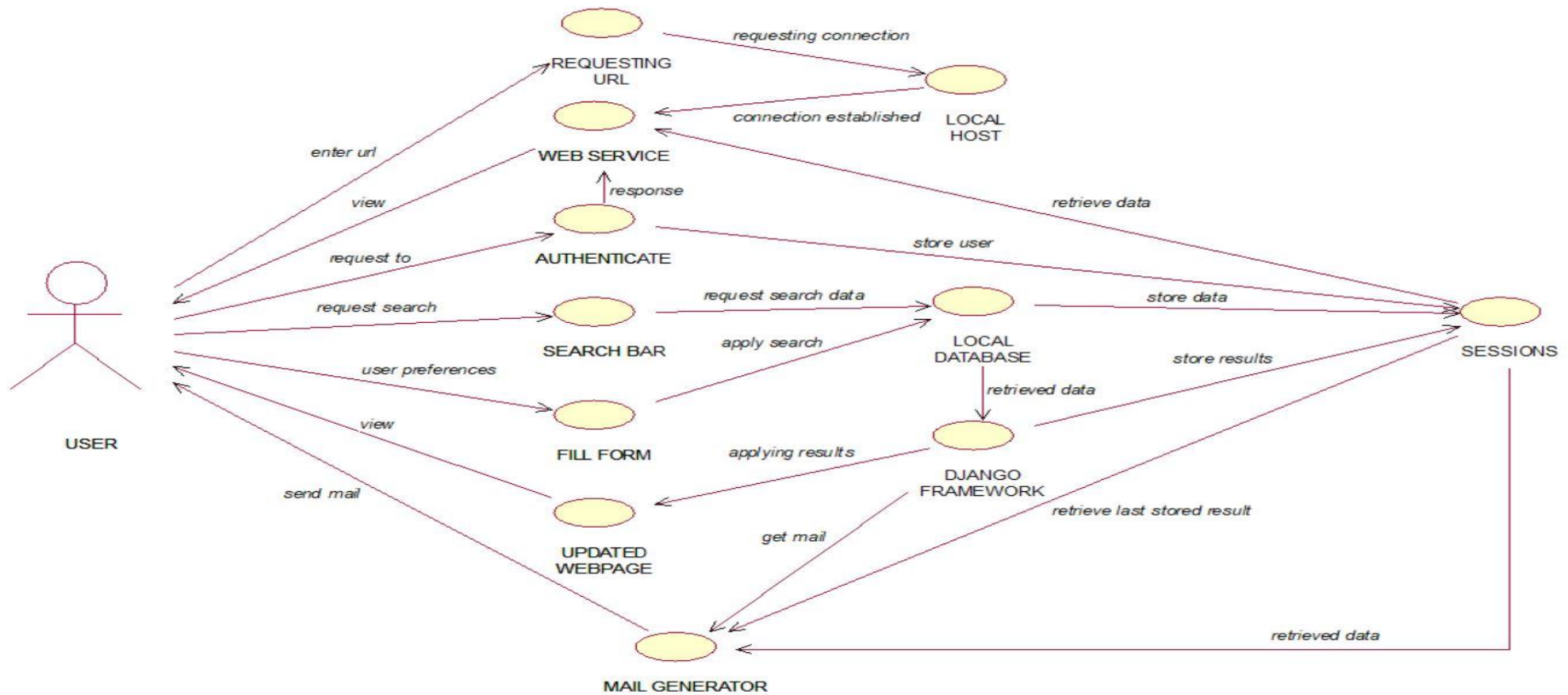
INTRODUCTION

- There are many engineering colleges in India, for which the admission are carried out through the Centralized Admission Process(CAP). During this process, the student's supposed to give their preference list of colleges. Then based on their score, marks ,category, and other attributes college is allotted to them.

- Most of the students make mistakes in their preference list due to the lack of knowledge, improper and incorrect analysis of colleges and insecure predictions. Hence students regret about their college after allotment.

- So our aim is to resolve the difficulty faced among most of the students through our project by predicting the list of colleges based on their rank and interests.

- College predictor is used to predict the likelihood of the students getting admission into colleges based on their rank, caste, gender and preferences.

- For this purpose we have been collecting data for the college cutoff's since 2015.

CONTROL FLOW DIAGRAM

UML DIAGRAM

TECHNOLOGY STACK

Software Requirements

- Operating System : Windows

- Programming Language : Python

- Python Version 3.5 or higher (64-bit only)

- Django Framework version 3.0.8

- Django Pandas, Django NumPy

- HTML, CSS and JavaScript

- MySQL Database – mysqlclient

Hardware Requirements

- System Architecture 64-bit

OUTPUTS

College Predictor

Type College Name   Enter

Find Your College Here, Just answer few Queries and See your list of Colleges suitable for you.

Search By: ○ District Only   ○ Rank Only   ○ Both Rank and District

127.0.0.1:8000/main/logout/

College Predictor

Home   About Us   Contact Us   Logout   [Type College Name]   Enter

Find Your College Here, Just answer few Queries and See your list of Colleges suitable for you.

Search By: ○ District Only   ○ Rank Only   ● Both Rank and District

* Please enter your rank and choose your category and district to get know the colleges available to you in your district.

Enter your Rank* :	100	Select your Caste Category* :	BCE
Select your district* :	Krishna		

☑ Please tick, If you have your own preferences of choice.

Gender* :	Female	College type :	University
Do you prefer Co-education :	Yes	College Size (in acres) :	lesser than 50
Academics Quality (out of 5):	3 and above	Placement Rating (out of 5):	2 and above
Are you interested in Sports ? :	Yes, it's a must.	Do you require Hostel Facility ? :	Yes,I need it.
Do you require Bus Facility? :	Yes,I need it.	Are you interested in ActivityClubs / NSS ? :	No, not much important.
Do you have importance for Medical Care Facility (within or around 5kms radius) ? :			Yes, it's a must.

Submit

College Predictor

Home   About Us   Contact Us   Logout   [Type College Name]   Enter

Result

Eamcet Code	College Name	Course Code	Place	Contact No.	Website	NBA Accreditation	NAAC Rating	NIRF Ranking	Preferences Match %
ANIL	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCI	CHE	BHEEMUNIPATNAM	8933225084	www.anits.edu.in	✗	✗	✗	83
ANIL	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCI	CIV	BHEEMUNIPATNAM	8933225084	www.anits.edu.in	✗	✗	✗	83
ANIL	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCI	CSE	BHEEMUNIPATNAM	8933225084	www.anits.edu.in	✗	✗	✗	83
ANIL	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCI	ECE	BHEEMUNIPATNAM	8933225084	www.anits.edu.in	✗	✗	✗	83
ANIL	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCI	EEE	BHEEMUNIPATNAM	8933225084	www.anits.edu.in	✗	✗	✗	83
ANIL	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCI	INF	BHEEMUNIPATNAM	8933225084	www.anits.edu.in	✗	✗	✗	83
ANIL	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCI	MEC	BHEEMUNIPATNAM	8933225084	www.anits.edu.in	✗	✗	✗	83
ASKC	A S K COLLEGE OF TECHNOLOGY MANAGEMENT	CIV	ANAKAPALLE	8924231144	www.askctm.in	✗	✗	✗	80

Send Mail

* Inorder to avail the mail service make sure you are a registered user.
* If already registered, login here, or else signup here.

CONCLUSION

- Our College Predictor works entirely on Django Framework and relayed on the stored information in the database. Because of which the project model is highly robust and portable and there by enhancing the scale of deployment.

- Just a careful observation and dedication towards collecting data is required to provide precise results.

- With the help of College Predictor, the students might get an opportunity to look over their preferred list of colleges before their Eamcet Counselling. It is likely that the students can get the overview of the colleges available freely to them.

FURTHER ENHANCEMENTS

- The datasets are collected manually. For the time being, we have been collecting data from almost all the engineering colleges in AP that accept admission through AP Eamcet and these can be expanded further.

- Since we have lack of dataset from 2019, we are collecting data from 2015 to 2018. If there is any chance of obtaining the dataset of 2019 we will surely include it.

REFERENCES

- Survey conducted to collect details of colleges through the google form.

  Google Form Survey

- Cut-off ranks and College details of various colleges.

  - 2015-18 Cutoff Lists, Average Cutoff List

  - College Details List

- Helper Websites

  - andhracolleges.com

  - collegedunia.com

- Django Help

  - Django Documentation

  - stackoverflow questions for Django

THANK YOU