

Vasavi College of Engineering, Ibrahimbagh
Department of Information Technology

Report on
DreamBox (Placements information blog)

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DECLARATION BY THE CANDIDATE

We **RAKESH BUDDE** and **SAIKIRAN BUTHAM** bearing hall ticket number, **1602-17-737-301** and **1602-17-737-302**, hereby declare that the project report entitled **DREAMBOX(Placements information blog)** Department of Information Technology, Vasavi College of Engineering, Hyderabad, is submitted in partial fulfilment of the requirement for the award of the degree of **Bachelor of Engineering in Information Technology**.

This is a record of bonafide work carried out by me and the results embodied in this project report have not been submitted to any other university or institute for the award of any other degree or diploma.

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ABSTRACT

DreamBox (placements information blog)

Dream Box is a blog that is developed using Django framework which is useful for students who want to crack in the campus placements. This blog is an interactive and informational web-based platform that provides the students to write their own placement story and about the journey how a person can get into the respective company. This blog solves the paper based preparation for placements and students can insights about the process of hiring directly from the company. It provides in detail process of preparation, tools and resources along with the guidance from the experts.

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1.INTRODUCTION

This project report will introduce how to build a blog (DREAM BOX) using the Django framework. Django is an open source web application framework which is written in Python. This course management system built using Django has four major components each of which has different functionality but similar architecture. In the project report I will demonstrate details of using Django to build one major component of this system: the group component, which is my major contribution to the whole system. Also the technique and process which is shown here can be applied to build the other three components in the course management system as well as other complex database-driven websites.

Dream Box is a blog that is developed using Django framework which is useful for students who want to crack in the campus placements. This blog is an nteractive and informational web-based platform that provides the students to write their own placement story and about the journey how a person can get into the respective company. This blog solves the paper based preparation for placements and students can insights about the process of hiring directly from he company. It provides in detail process of preparation, tools and resources along with the guidance from the experts.

2. RELATED WORK

2.1 EXISTING SYSTEM

In the existing system the interview experiences which you see are may not be latests interview experiences.(i.e. they are from many years back) ,But in our system we share interview experiences every year and we keep update the information once in each year.

LIMITATIONS:

There are many websites are there to refer about recrutement process and interview experiences.

We may not have official information about companies and their recruitment process.

2.2 PROPOSED SYSTEM

The proposed system fully interactive and efficient, which every can use easily and anything can found easily by using search bars from the website. And they can see the latest post from the blog if they have any doubts they can represent their doubts by using comments.

2.3 NEED FOR COMPUTERIZATION

The required information can be retrieved easily. The details can be stored in the storage systems permanently. Time will not to search what you want. Reports can be generated. Wastage of time is reduced.

3. PROPOSED WORK

3.1 Use Case Diagram

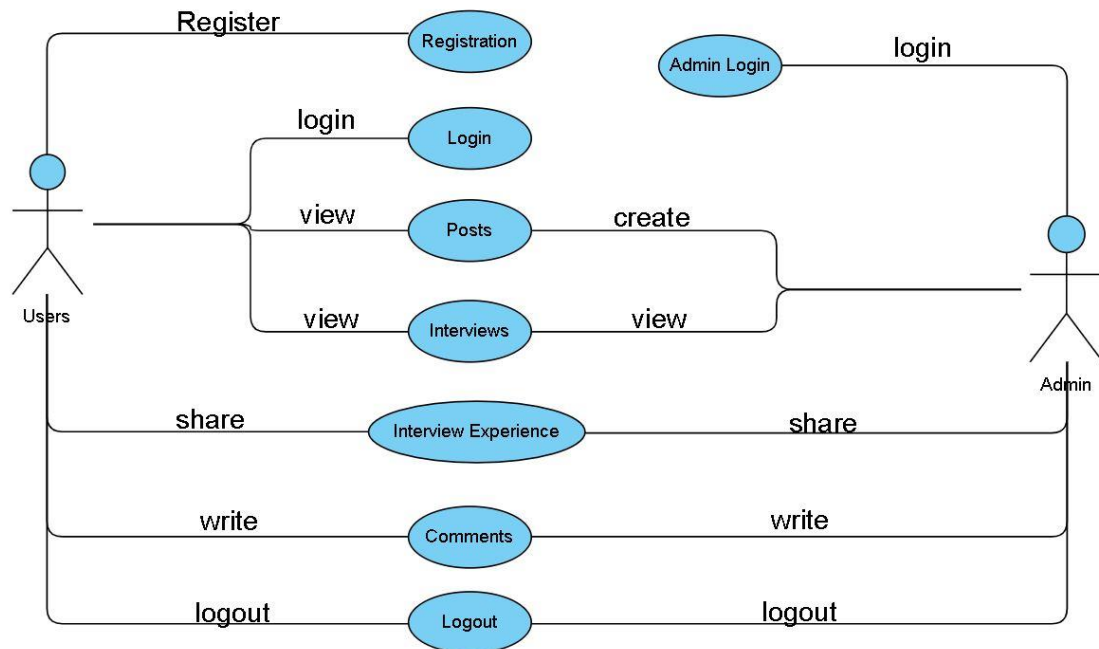


Fig 1. Use case diagram

3.2 Screenshots

3.2.1 Homepage (General view)

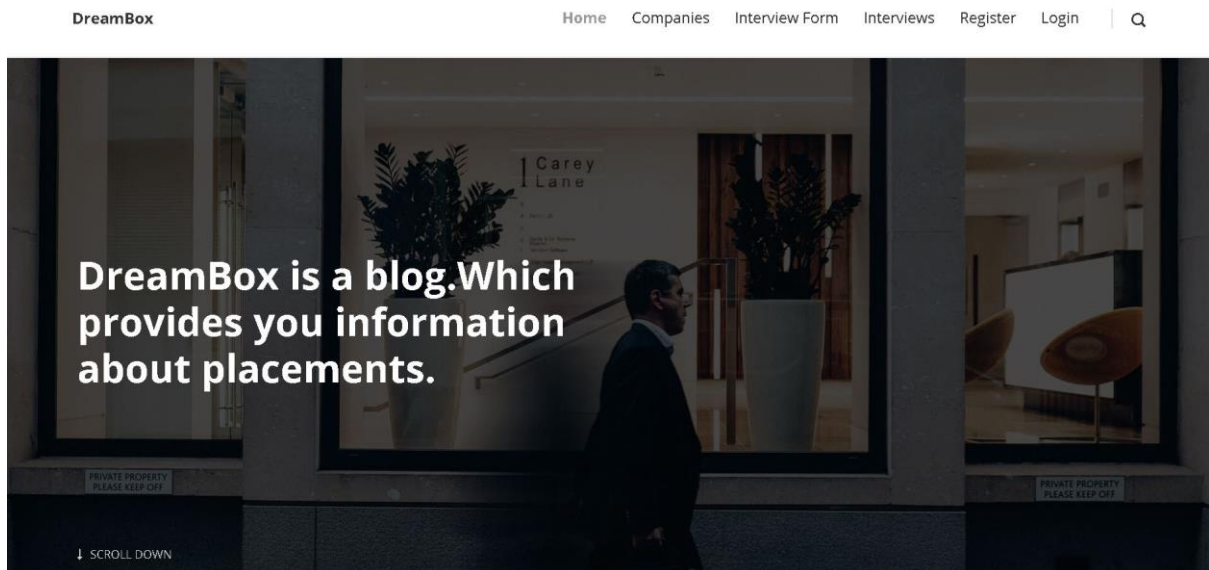


Fig 2. Homepage (general)

3.2.2 Registration Page

The screenshot shows the registration page of DreamBox. It has a dark background with the title 'Registration page' in white. Below the title, there are six input fields for registration: 'First Name', 'Last Name', 'Username', 'Email Id', 'Password1', and 'Password2'. A 'Submit' button is located at the bottom of the form. The navigation bar at the top is identical to the homepage, with the logo 'DreamBox' and links for 'Home', 'Companies', 'Interview Form', 'Interviews', 'Register', 'Login', and a search icon.

3.2.3 Login Page

Login page

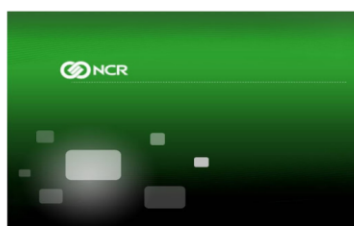
Username :

Password :

Fig 4. Login Page

3.2.4 Homepage (latest posts)

Latest from the blog



1 Month, 1 Week Ago |

TECHNOLOGY

NCR

NCR Corporation. NCR Corporation, previously known as National Cash Register is an American software, managed and professional services, consulting and technology company that also makes self-service kiosks, point-of-sale terminals, automated teller machines, check processing systems, and barcode scanners.



1 Month, 1 Week Ago |

TECHNOLOGY

CISCO

CISCO SYSTEMS INC. IS THE WORLDWIDE LEADER in networking for the Internet. The company was founded in 1984 by two computer scientists from Stanford University seeking an easier way to connect different types of computer systems.



1 Month, 1 Week Ago |

TECHNOLOGY

INFOSYS

Infosys Limited is an Indian multinational corporation that provides business consulting, information technology and outsourcing services. Infosys is the second-largest Indian IT company after Tata Consultancy Services by 2017 revenue and 596th largest public company in the world based on revenue.

Fig 5. Homepage (latest posts)

3.2.5 Companies page

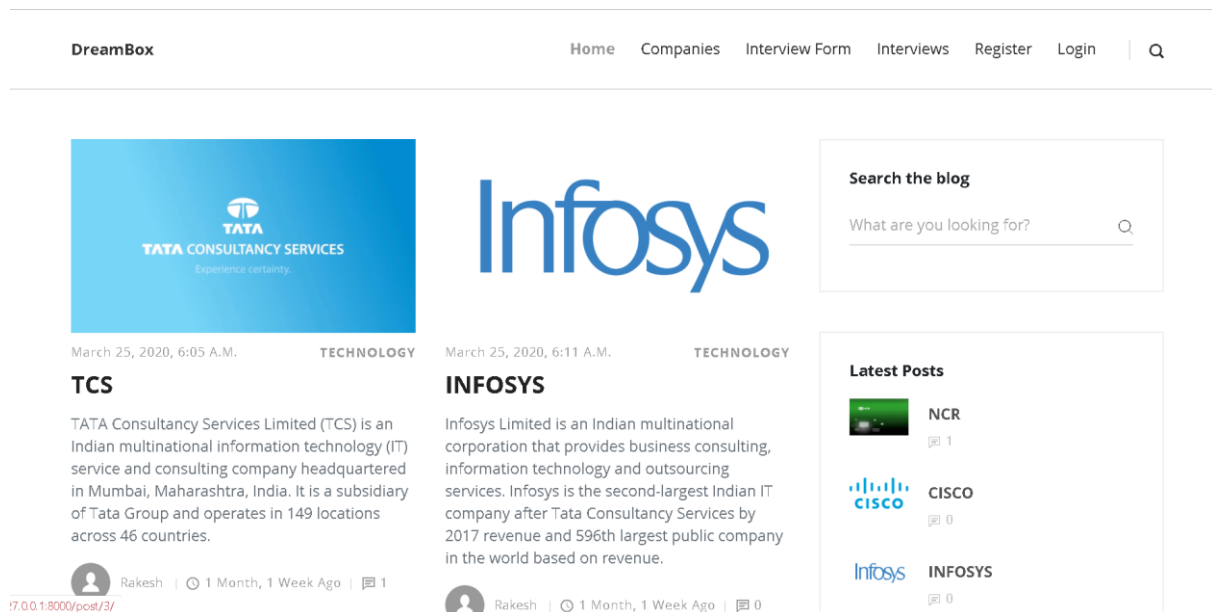


Fig 6. companies page

3.2.6 Interview form page

Interview Form

Fill the form below contains :

Company name:

Name:

Qualification:

Selected year:

Role:

Package:

Skills:

Rounds:

Interview experience:

Questions:

Please Enter the questions faced in the interview

Suggestions:

Please give me any suggestions for interview(if possible)

Submit Form

Fig6. Interview form page

3.2.7 Interview Experince page

Interview Experience Section

c

Search the interview experience

Enter company name or person name



Company Name : LTI

(Posted 1 month, 1 week ago)

Person Name : Rohan

Selected Year : September 2019

Pay Scale :

SLPA

Selected Role :

Graduate Trainee Engineer

Qualification :

Cse 4th year

Required Skills :

C,SQL,DBMS,OS, Basic knowledge about computer Science subjects

No.of Rounds :

3 rounds

round1:Written Test

round2:Group Discussion

round3: HR round

Interview Experience :

first round is online..Mcqs based on aptitude,sql,c,dbms,os,html and basic computer science fundamentals.. And one coding question..Those who submit clear coding question directly goes to HR And others who qualify the test should go one more GD round.

3.3 Architecture and Technology

This project implemented using frontend Django Framework. There are 5 modules super admin, accounts, posts, interviews and comments. First Super admin login to dashboard to add members and their details. Every person have username and password to access. Main purpose of this project used to help the students those who are preparing for campus placements.

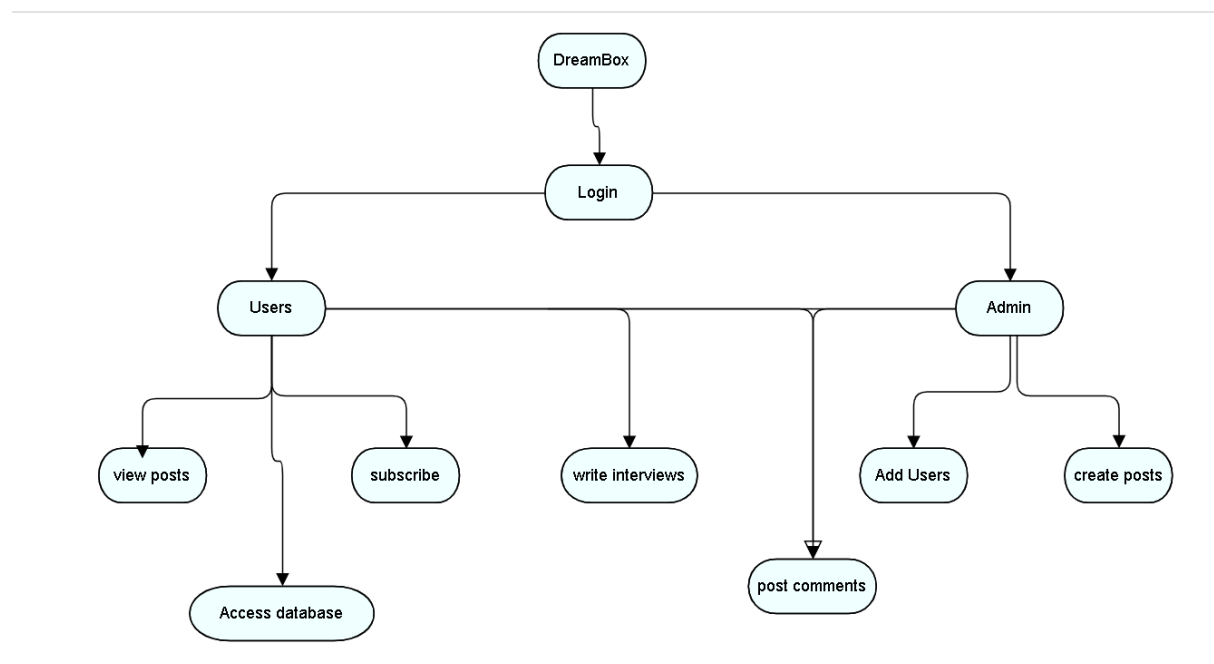


Fig 7. DreamBox Architecture

3.3.1 Django Framework

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel.

It's free and open source.

With Django, you can take Web applications from concept to launch in a matter of hours. Django takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel. It's free and open source.

3.3.2 Django MVT

The MVT (Model View Template) is a software design pattern. It is a collection of three important components Model View and Template.

The Model helps to handle database. It is a data access layer which handles the data. The Template is a presentation layer which handles User Interface part completely. The View is used to execute the business logic and interact with a model to carry data and renders a template.

Although Django follows MVC pattern but maintains its own conventions. So, control is handled by the framework itself. There is no separate controller and complete application is based on Model View and Template. That's why it is called MVT application.

See the following graph that shows the MVT based control flow.

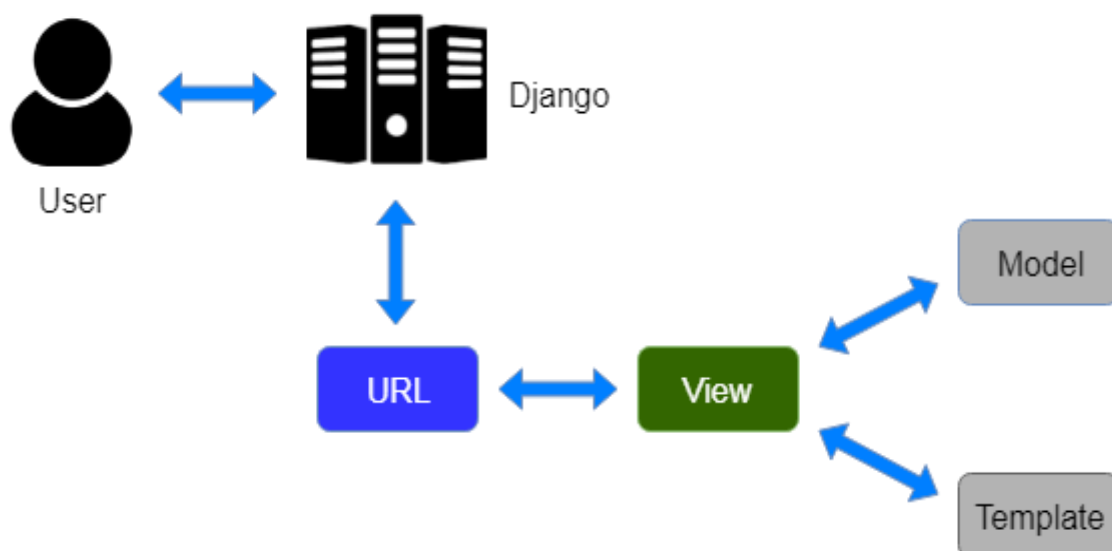
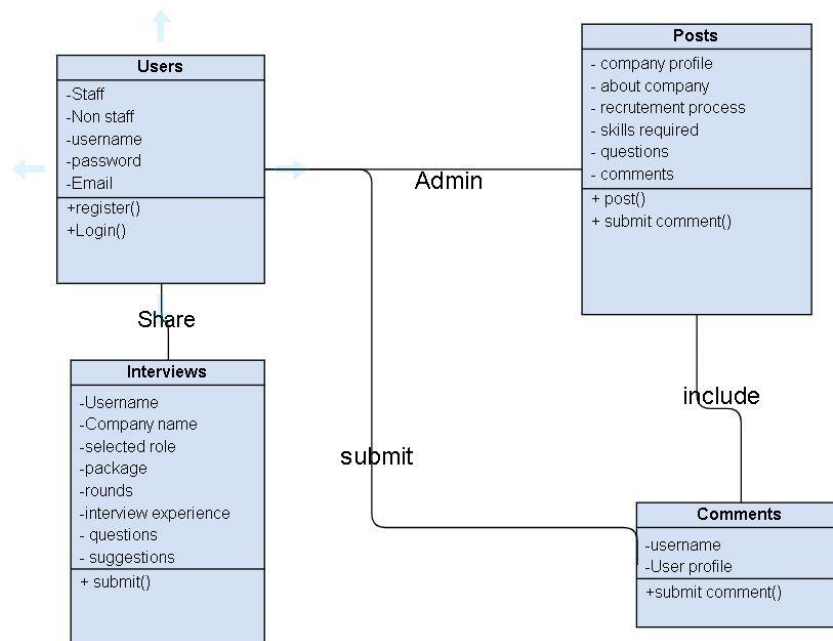


Fig 8. Django MVT Architecture

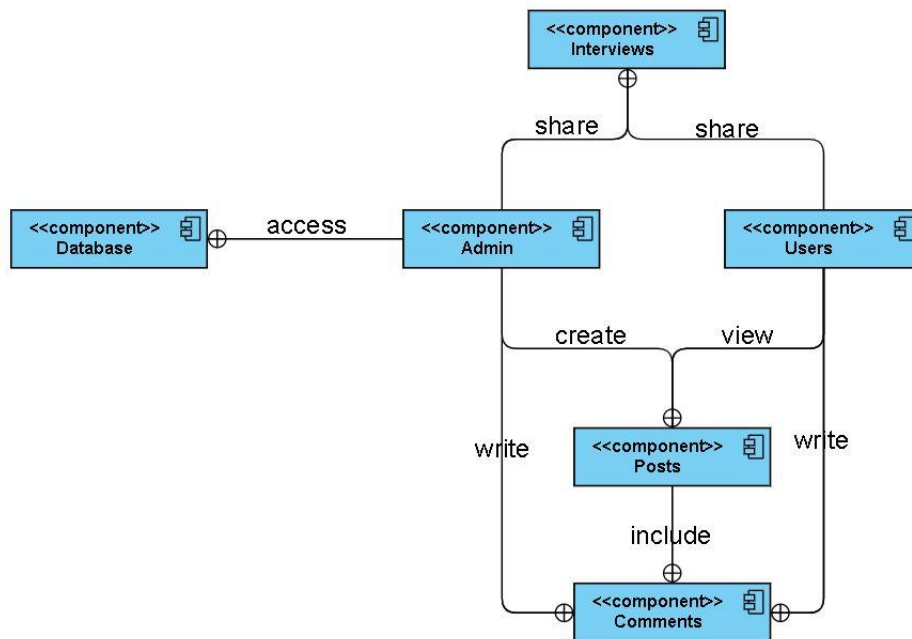
3.4 Design

3.4.1 UML static diagram

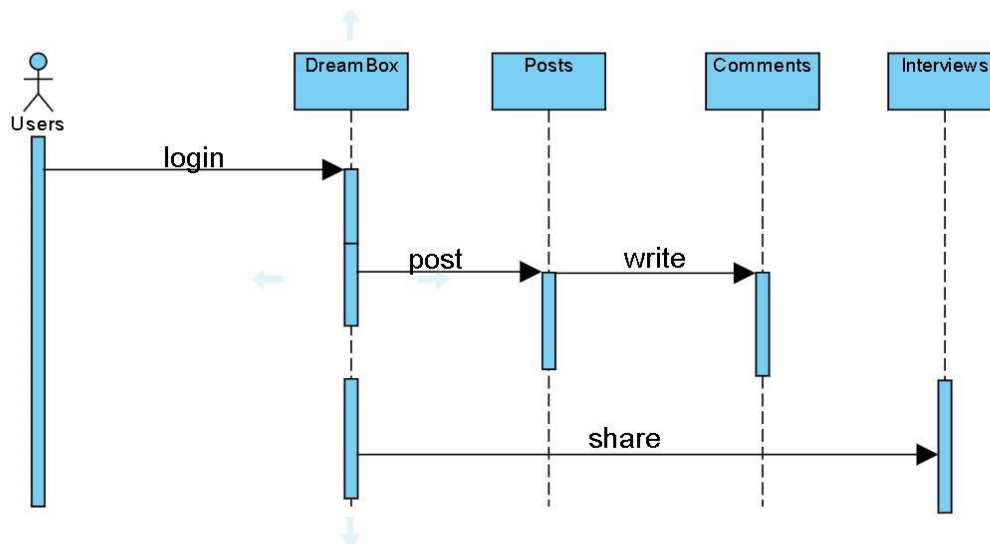
3.4.1.1 Class Diagram



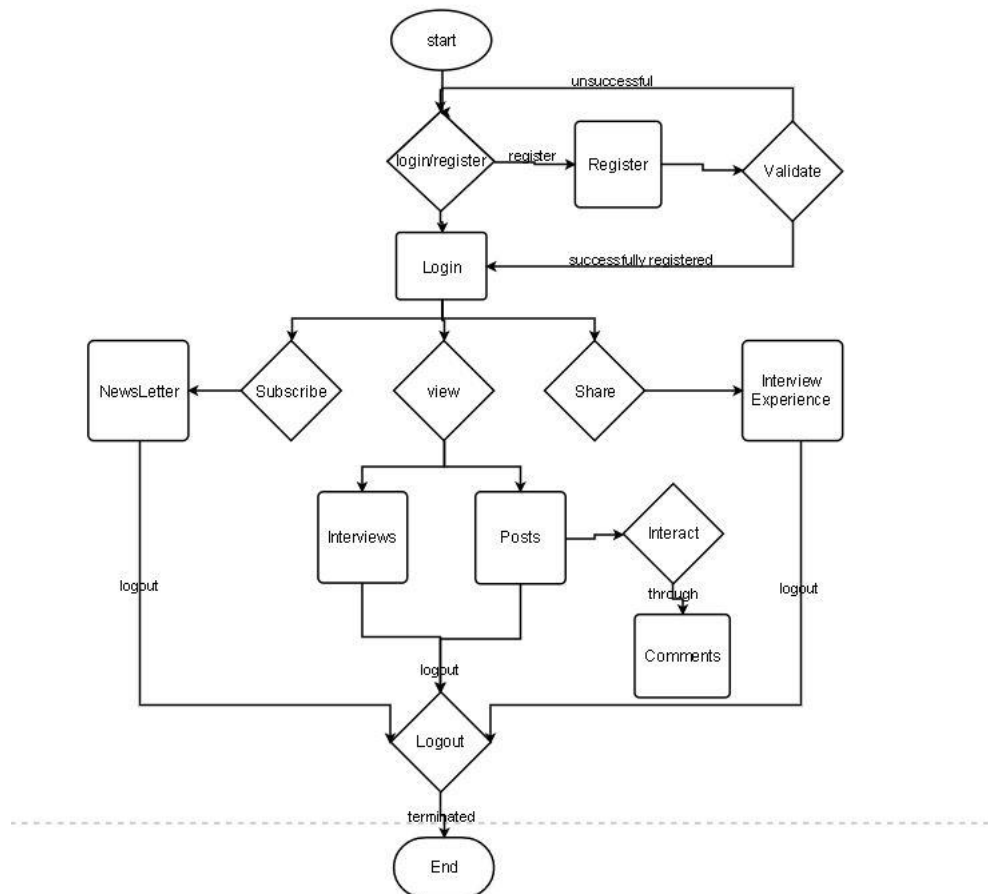
3.4.1.2 Component Diagram



3.4.1.3 Sequence Diagram



3.4.1.4 FlowChart Diagram

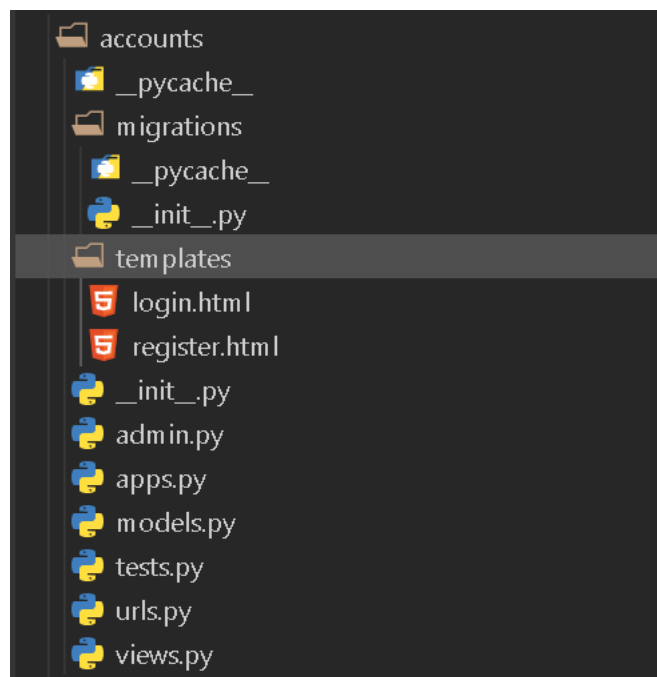


3.5 Implementation

3.5.1 Main Modules of Value chits:

Accounts

This module is responsible for managing the customer and admin accounts. All the data related to the customer accounts is stored using Django models of Accounts module. Whenever a customer tries to login to his account the validation is done internally where the model component fetches the data from the database and validates further. This can be accessed by the admin using the admin dashboard.

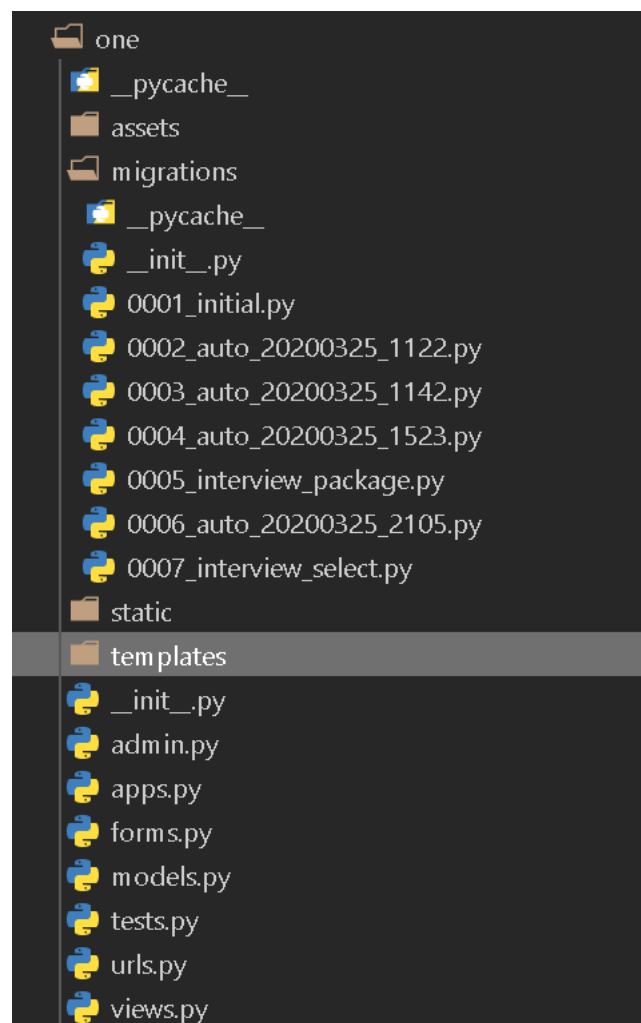


Each of the files shown in the Fig 11 has different functionality to handle customer login logout validations and session monitoring.

Posts Module

This module is responsible for creating posts and management of the data of the various different posts. It includes about company, recruitment process of that company, what are the skills required to crack the company, interview questions and suggestions.

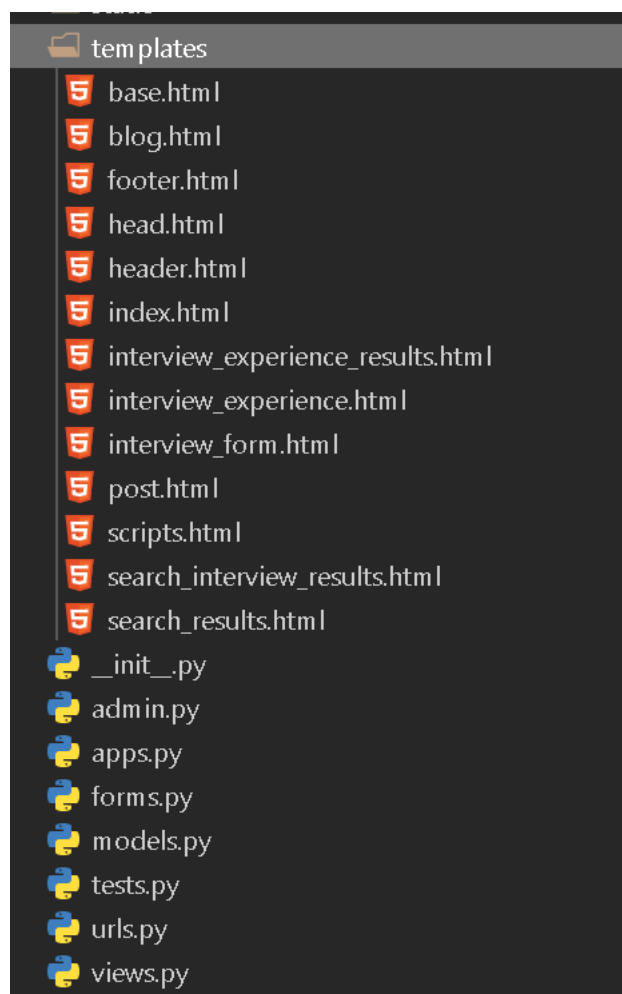
This module also consists of comments fields where you can post your doubts through comments, and it will be clarified later by the other persons those who see your comments or it will be clarified by our administrators.



Interviews Module

This module consists of interview experiences of students those who selected in companies (like infosys, microsoft, google etc) can share their interview experiences. It collects the interview experience of different companies from the users all over the world and store the data in the postgres database.

It also consists of interview form, by using that users can submit their interview experiences. The form includes company name, person name, interview experience, questions faced in the interview and suggestions. By filling that form users can submit their interview experiences.



Comments Module

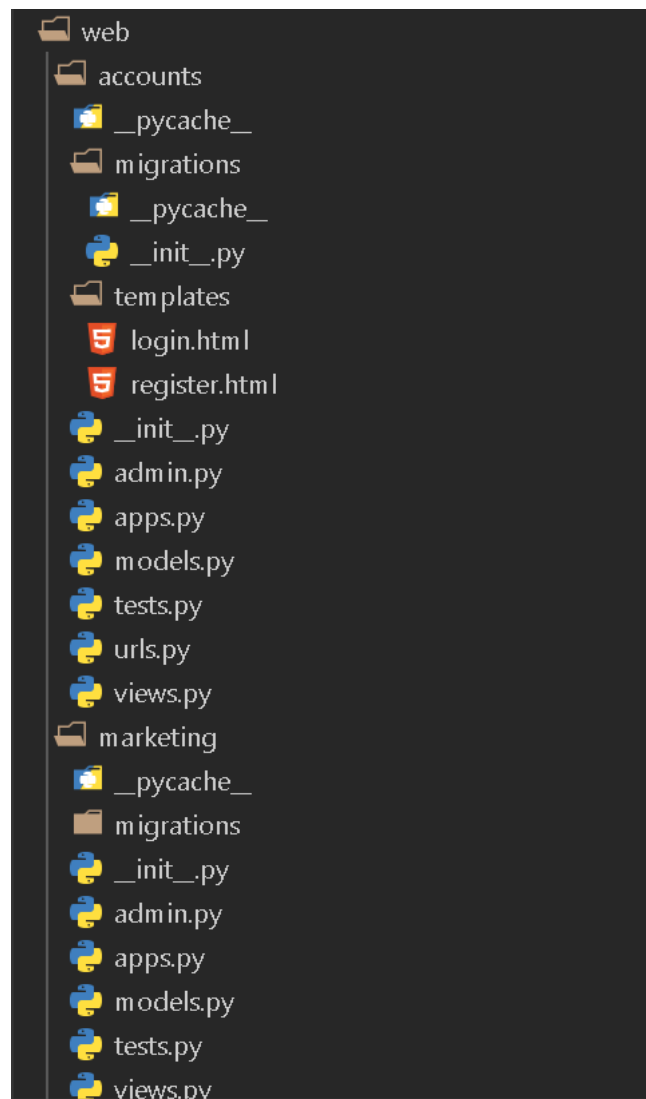
The Comment module provides an interface to interaction using a comment as a feedback and response to the specific post . The registered individuals are only allowed to post the comments and able to reply to the comments section.

3.6 GitHub links

Rakesh Budde (1602-17-737-301)

- https://github.com/Rakeshvarma301/DreamBox_django_project

3.6.1 Folders Structure



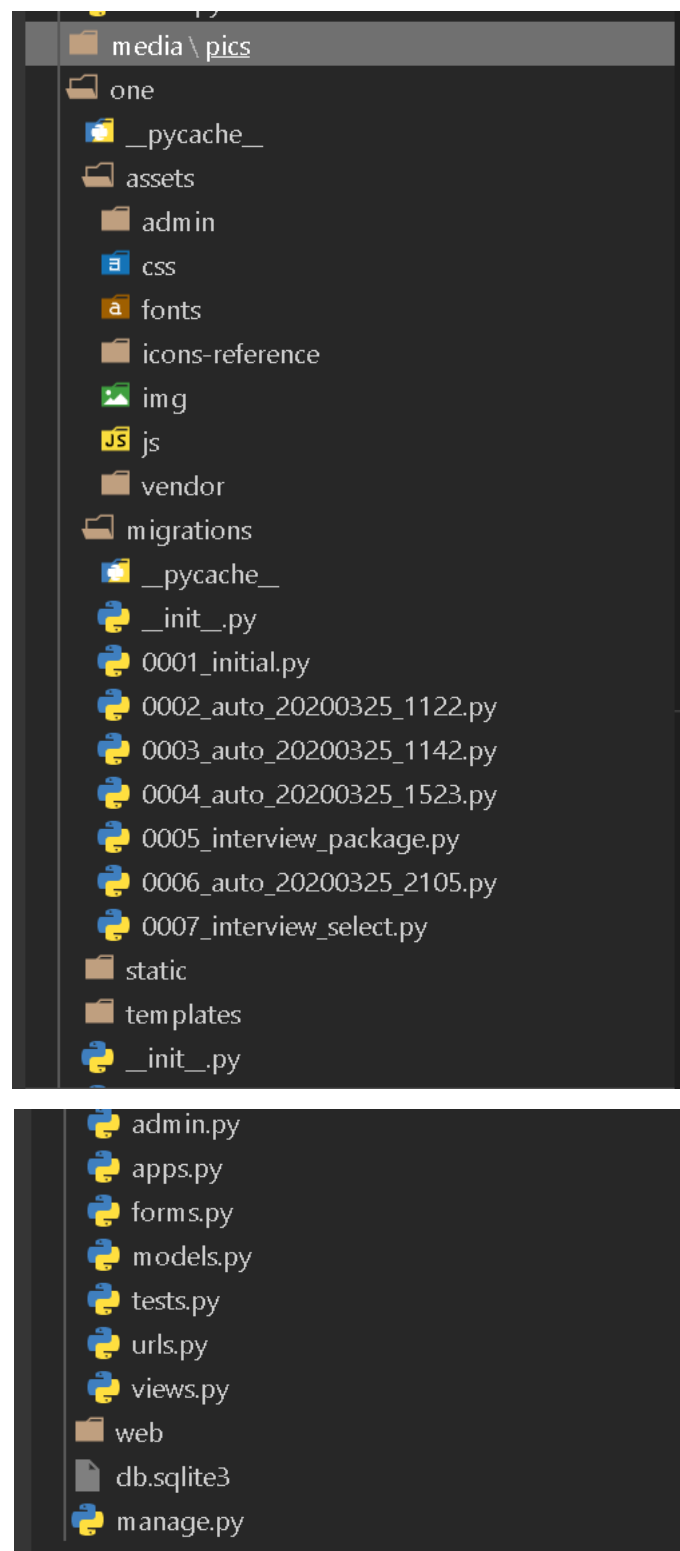


Fig 13. Folder structure

3.7 Testing

The testing part could be done on posts, comments and Interview form. After posting the posts of multiple companies we can see it on the companies page in order wise, by submitting comments you can clearly see your comments above the comment box as well as by submitting the interview form you can see your interview experience on top of the interviews page.

You can see the testing of comments by using below picture.

Post Comments {1}



Rakesh

1 Week, 4 Days Ago

thank you

Leave a reply

Comment:

Submit Comment

4.Results

The results you can see in the form of posts. By watching the full post of a company you can understand the everything about the company. In the post you can see company information, eligibility criteria, skills required to crack the interview, recruiting process of the company and mostly asked questions of that company. These are the details i included in every post.

You can see the results of the posts by using below picture.

DreamBox**Home**

Companies

Interview Form

Infosys

TECHNOLOGY

INFOSYS

Rakesh | ⌚ 2 Weeks, 1 Day Ago | 💬 0

About Company :

Infosys Limited is an Indian multinational corporation that provides business consulting, information technology and outsourcing services. Infosys is the second-largest Indian IT company after Tata Consultancy Services by 2017 revenue and 596th largest public company in the world based on revenue.

Eligibility Criteria :

B.E/B.Tech

M.Tech

Skills required :

C/C++

PYTHON

DATABASE(MYSQL)

Interview procedure :

round1: Written Test

Aptitude, Reasoning, Verbal

round2: Technical Interview

Asks questions on your projects and basic computer science questions

round3: HR Round

Questions based on your resume and About yourself

Questions :

1.Asks your strong point(ex: your favourite subject C/C++/PYTHON) questions will be asked on that topic

2.Basic programming Questions

3.Questions on OOPS concepts

5.Discussion and Future Work

Every application has its own merits and demerits. The project has covered almost all the requirements. Further requirements and improvements can easily be done since the coding is mainly structured or modular in nature. Changing the existing modules or adding new modules can append improvements. Further enhancements with web cam can be made to the application, so that the web site functions very attractive and useful manner than the present one. It is concluded that the application works well and satisfy the users. The application is tested very well and errors are properly debugged. The site is simultaneously accessed from more than one system. The site works according to the restrictions provided in their respective browsers.

Further enhancements can be made to the application, so that the web site functions very attractive and useful manner than the present one. The speed of the website in browser become more enough now.

References

- 1.Beginning Django, Web Application Development and Deployment with Python @Author (Rubio, Daniel) published 2001.
2. Learning PostgreSQL 10 @ Author (Salahaldin Juba and Andrey Volkov)
3. Django tutorials – <https://www.youtube.com/watch?v=OTmQQjsl0eg>