

Mini Project Report

on

PLACEMENT ASSISTANT

submitted by

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In partial fulfilment of the requirements for the award of degree of Bachelor of Technology  
in Computer Science and Engineering.



DIVISION OF COMPUTER SCIENCE AND ENGINEERING  
SCHOOL OF ENGINEERING  
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

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DIVISION OF COMPUTER SCIENCE AND ENGINEERING  
SCHOOL OF ENGINEERING  
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY



## *CERTIFICATE*

Certified that this is a bonafide record of the Major Project titled

### **PLACEMENT ASSISTANT**

done by

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of VI Semester, Computer Science and Engineering in the year 2019 in partial fulfillment requirements for the award of degree of Bachelor of Technology in Computer Science and Engineering of Cochin University of Science and Technology.

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**Dr.Sheena Mathew**

**Dr.Sudheep Elayidom**

Head of Division

Batch Coordinator

Project Guide

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Thank You,

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## **Declaration**

We, Mr. Gurudatt Kumar, Mr. Kumar Gaurav, & Mr. Manish Kumar Chaudhary hereby declare that this project is the record of authentic work carried out by us during the academic year 2018 - 2019 and has not been submitted to any other University or Institute towards the award of any degree.

## **ABSTRACT**

Opportunity favors the prepared mind and we will help you get prepared. You know your destination, You need a wise, caring advisor alongside you. Your dream job doesn't become reality through magic ; it takes sweat ,determination and hard work . We are a company moving forward to help you.

This project deals with the development and implementation of a web application which helps job seekers to get trained and familiarized with recruitment procedure of different companies. This web application provides placement procedures ,learning materials and practice exams. The job seekers can login and learn whatever they want about any specific company and practice their placement questions. It provides real time chat support through which user can directly interact with alumni. It also includes help community support and social media support.

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# **Chapter 1**

## **Introduction**

Nowadays, everyone is running behind getting a good job in top MNCs or product based companies. Choose a job you love, and you never have to work a day in your life. Thus the main motivation for this Job Placement Assistant application is to provide quality learning materials in nearly free of cost or in very cost efficient way. Until now, the use of internet is limited but due to enhancement in technology ,the internet user has increased tremendously. Both job seekers and consultants have craved for an application that allows them to effectively work together. There are job seekers from different sectors like IT Software, Telecom, Real State etc. who want platforms from where he/she can get trained for the recruitment process conducted by different companies in the respective sector. But the availability is low.

In this project, efforts are being made to build a web application that can be helpful for job seekers in different sectors. The learning material , recruitment procedure followed by different companies , previous year questions and mock tests are provided by the Placement support team for the job seekers. The job seekers can come to the portal , learn ,test and prepare himself for different companies. The preparation can be done at any time any place which is a key advantage over offline placement training as now everyone is running behind time. The Job seekers also get some extra facilities like social media support , help community and chat support with alumni.

## Chapter 2

# Existing System

Everyone wants to live their Dream Life in which their Dream Job plays a prominent central role. No one wants to spend their life doing some job that they ultimately hate and find unfulfilling . So, getting a dream job need a hard determination and work . The main question is how can we get trained/prepared for that ? Is there any efficient and cost effective method ?

A solution to these issues is a web application which comprises of all the functionality where one can learn about recruitment process of different companies from different sectors , previously asked questions ,practice questions and real time mock tests and a real time alumni chat support.

The present existing system for the above is :

1. You need to manually enroll to some training centres to get trained for the placement preparation . These type of centres takes huge money from you as well as your precious time. Then also , you cannot trust such systems completely. At present system , everyone wants a cost effective and time flexible way to handle it.
2. Nowadays everyone is in search of multiple opportunities. They will only provide you training for which they had taken money and nothing else . Now , everyone wants a bit flexible learning platform .
3. In offline training there is no 24\*7 support . You cannot get help after your class.
4. There is no Alumni support team to help students for their proper guid-

ance.

5. There are some online web platforms present but they do not cover every aspects of students or every sectors . Students from different sectors are still in a search of a quality assured and cost effective platform.



# **Chapter 3**

## **System Analysis**

### **3.1 Preliminary Analysis**

The main motive of the application is to ease the process of placement preparation by avoiding the hectic offline learning at the training centres. Nowadays , everyone is shifting from manual process to digital process. So, this application is definitely helpful for those who prefer digital training. There are several applications available in the market giving the placement learning materials but they are specific to a particular sector i.e some are specific to IT amp; Software, some are for govt.exams etc. But this web application portal covers almost every corporate sectors. Also, none of the other application provides direct alumni support but using this application any job seeker can contact to alumni working in different company for any type of help.

### **3.2 Feasibility Study and Testing**

The aim of the system testing process was to determine all defects in our project. The program was subjected to a set of test inputs and various observations were made and based on these observations it will be decided whether the program behaves as expected or not . Our Project went through two levels of testing

1. Unit Testing
2. Integration Testing

### **Unit Testing**

Unit Testing is a level of software testing where individual units/ components of a software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output. In procedural programming, a unit may be an individual program, function, procedure, etc. In object-oriented programming, the smallest unit is a method, which may belong to a base/ super class, abstract class or derived/ child class. (Some treat a module of an application as a unit.

lem

### **Integration Testing**

Integration Testing is a level of software testing where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in Integration Testing. The purpose of integration testing is to verify the functional, performance, and reliability between the modules that are integrated.

### **3.3 Proposed System**

A solution to these issues is a web application which comprises of all the functionality where one can learn about recruitment process of different companies from different sectors , previously asked questions ,practice questions and real time mock tests and a real time alumni chat support. The web application should be accessed from any any device like personal computer, laptop, ipad and even smart phones. The new system shall provide a very intuitive and simple interface to the user and the administrator, so that the user can easily navigate through pages, take mock tests, practice different practice questions and the administrator can easily manage groups and revoke user permissions.

### **3.4 Users of the System**

#### **Job Seeker**

Job seekers are the primary consumers of an placement portal. They are accessing information about recruitment process and study material of different companies and can practice mock tests on website.

#### **Alumni**

Alumni are the supporting hand to the placement team who can help users to clear their doubts.

#### **System Administrators**

System administrators are primarily responsible for maintaining the portal. They spend more time modifying the systems configuration and making appropriate updates.

### **3.5 Problem with Existing System**

The existing system has the following difficulties:

1. The job seekers need to go for an offline placement training center.
2. The present placement training is costly.
3. The present system does not have 24\*7 support.
4. The present system does not have a real time chat support with the alumni.



# **Chapter 4**

## **System Study**

In this section, we are going to present the SRS, system objectives and hardware and software tool requirements.

### **4.1 Software Requirements Specification**

A software requirements specification (SRS) is a document that captures complete description about how the system is expected to perform.

### **Purpose**

The purpose of this document is to capture, in natural language and at a functional level, the description and requirements of a Placement Assistant web service. The focus here is the placement training needs. This is a functional description of those features required to address current placement requirements. A short discussion accompanies each requirement, to add the background and framework necessary to explain the functionality. It also describes nonfunctional requirements and other factors necessary to provide a complete and comprehensive description of the requirements for the software.

## Scope

This software system will be an online placement assistant portal for any job seeker wishing to get good job. More specifically to design and develop a simple and intuitive system which shall cater the training needs for job seekers. The system shall provide features to the user to be prepare for different types of jobs, share data and documents amongst different users, have discussion threads, instant notifications via email/message, alumni support, learning material, live chat support and online test support.

## Functional Requirements

- User Login

Purpose: User logs in to system using existing profile

Actor: User

Input: Username and password

Output: Corresponding page data

- Chat Support

Purpose: User want to start a discussion

Actor: User

Input: Queries which user want to ask

Output: Best suitable answer to the query

- Take Test

Purpose: User can practice and evaluate his/her preparation using mock tests

Actor: User

Input: Select suitable options

Output: Detailed result of user

## Non Functional Requirements

### 1. Performance Requirements

Login should be verified for each user. Test cases corresponding to each problem must be present in the database.

### 2. Safety Requirements

The system must not be damaged or manipulated by unauthorized access to the database.

### 3. Security Requirements

The user information should not be accessed by other users and the password needs to be encrypted in the database.

## 4.2 Hardware and Software Requirements

### Hardware Interface

- Client Side:

Browser: Chrome version 50.x and higher

Processor: Intel Pentium IV and higher

RAM: 512 MB

- Server side: Intel Core i3 and higher

RAM: 1 GB

## Software Requirements

- Front end: HTML, Javascript, CSS, jQuery
- Back end: Python, PHP
- Database: PostgreSQL, MySQL
- Operating System: Ubuntu, Windows, MAC
- Local server: Django Server



# **Chapter 5**

# **System Design**

## **5.1 Introduction**

Designing requires a careful planning and thinking on the part of the system designer. Designing a system means to plan how the various parts of it are going to achieve the desired goal. After the software requirements have been analysed and specified, design is the first of the three technical activities. Designing, coding and testing are required to build and verify the website.

## **5.2 Data Flow Diagrams**

Data Flow Diagram is a pictorial way of showing the flow of data into/within the system, around the system and out of the system. It is a graphical representation of flow of data within a system. Unlike flowcharts, DFDs do not give detailed descriptions of modules but graphically describe data and how the data interact with the system. The DFD enable us to visualize how the system operates, its final output and the implementation of the system as a whole including modification if any. The purpose of data flow diagram is to provide a semantic bridge between users and system developers.

## LEVEL 0 DFD

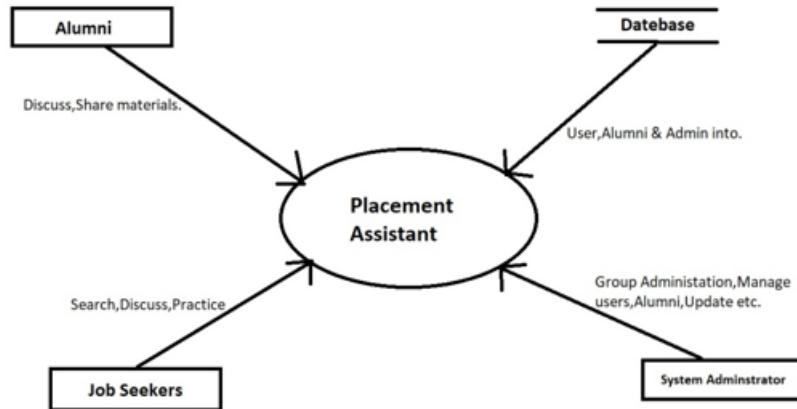


Figure 5.1: Zero Level DFD

## Level 1 Login DFD

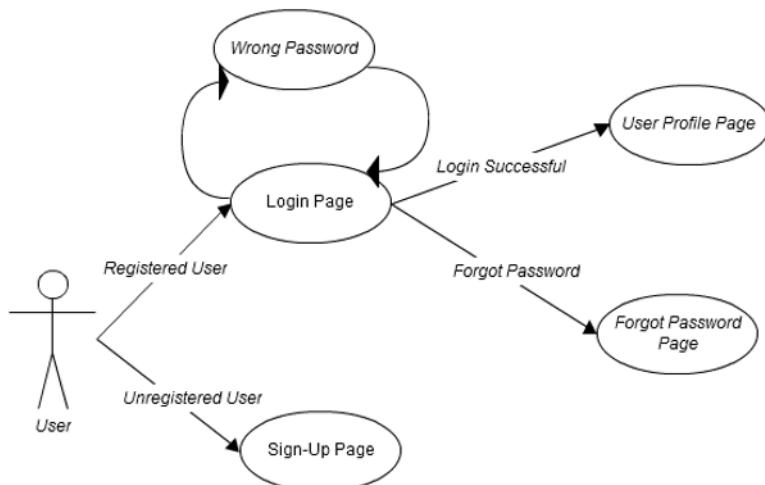


Figure 5.2: Login DFD

Level 1 Take Test DFD

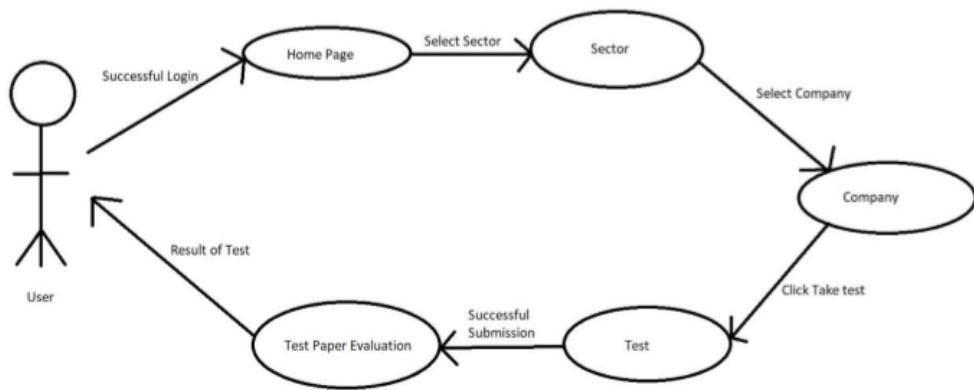


Figure 5.3: Take test First Level DFD

### 5.3 Database Design

A database is accessed, read from and written to, using an interface that allows applications to store and retrieve data. This interface is called an interface driver or database driver. There is usually more than one driver for an RDBMS. ODBC (Open DataBase Connectivity) is a popular database driver. So, if you write a program that needs to store and read data, you would use the API (Application Programming Interface, a collection of functions) provided by ODBC to do so. Similarly, there is JDBC (Java DataBase Connectivity) and others.

	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
■	2706manish	2706manish@gmail.com	Manish kumar	Chaudhary	✗
■	2706mhc	2706mhc@gmail.com	Manish Kumar	Chaudhary	✗
■	9430mk	9430mk@gmail.com	Mukund Kumar	Choudhary	✗
■	admin	2706mhc@gmail.com			✓

Figure 5.4: User database table



# **Chapter 6**

# **System Implementation**

Placement Assistant web portal aims at providing job seekers with the training materials, recruitment procedure for different companies. This is divided in two parts the front end and the back end.

## **6.1 Platform and Tools**

The development of this project was done in Windows environment. It can run on Linux, Windows and Macintosh systems. We use PyCharm as the code editor during development.

### **Front End Tools**

The front end is designed using of HTML,CSS and BootStrap.

### **Back End Tools**

The back end is designed using of django python framework.

### **Data Base**

PostgreSql is used for database.

## 6.2 Screenshots

### Homepage

This is the first interface for the user.

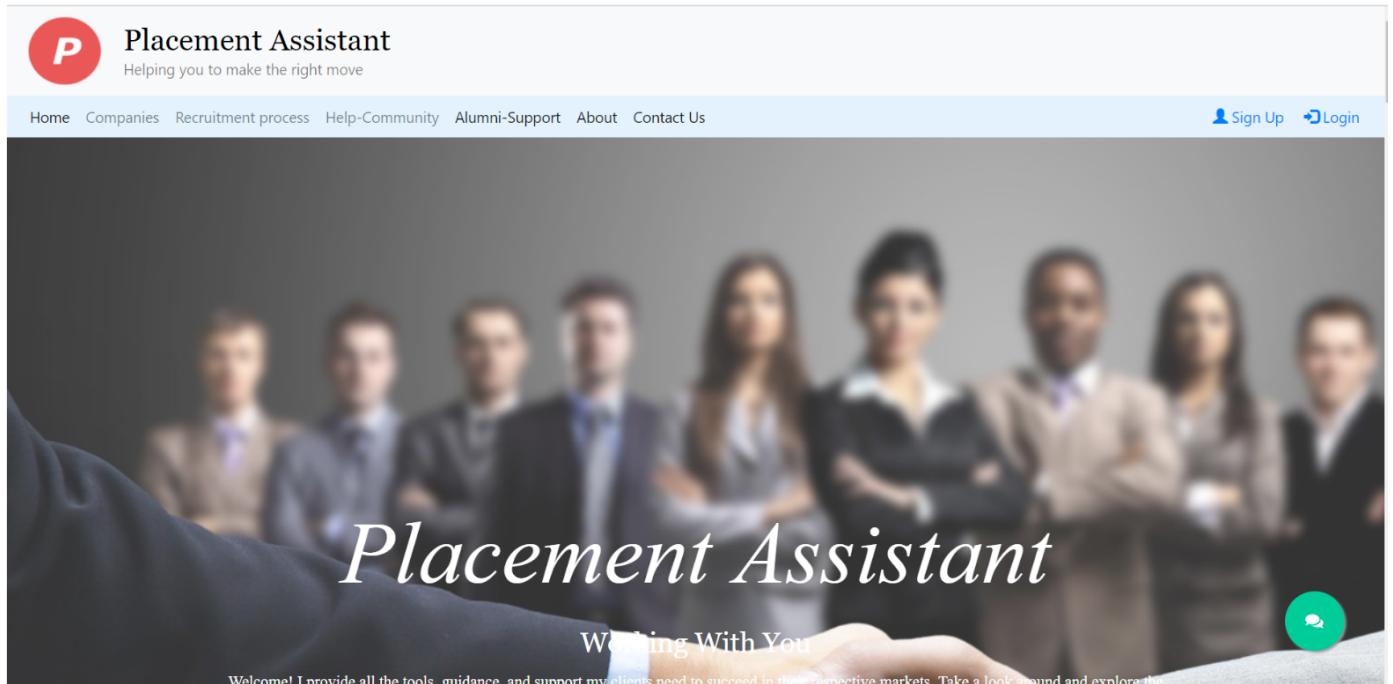


Figure 6.1: Home Page

## Registration Page

User has to first register by providing details(Username,Email and password) and create a user profile

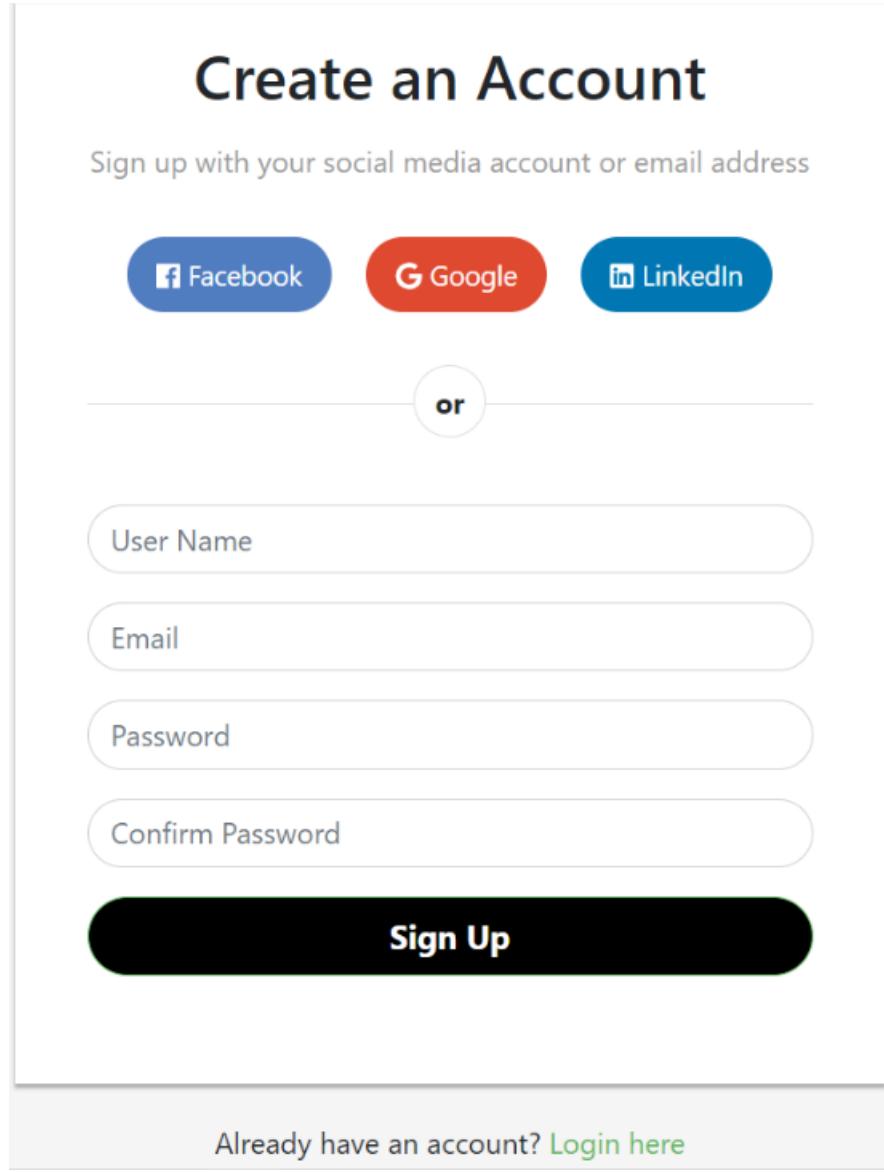


Figure 6.2: Registration Page

## Login Page

User has to login into his/her profile in order to get placement support.

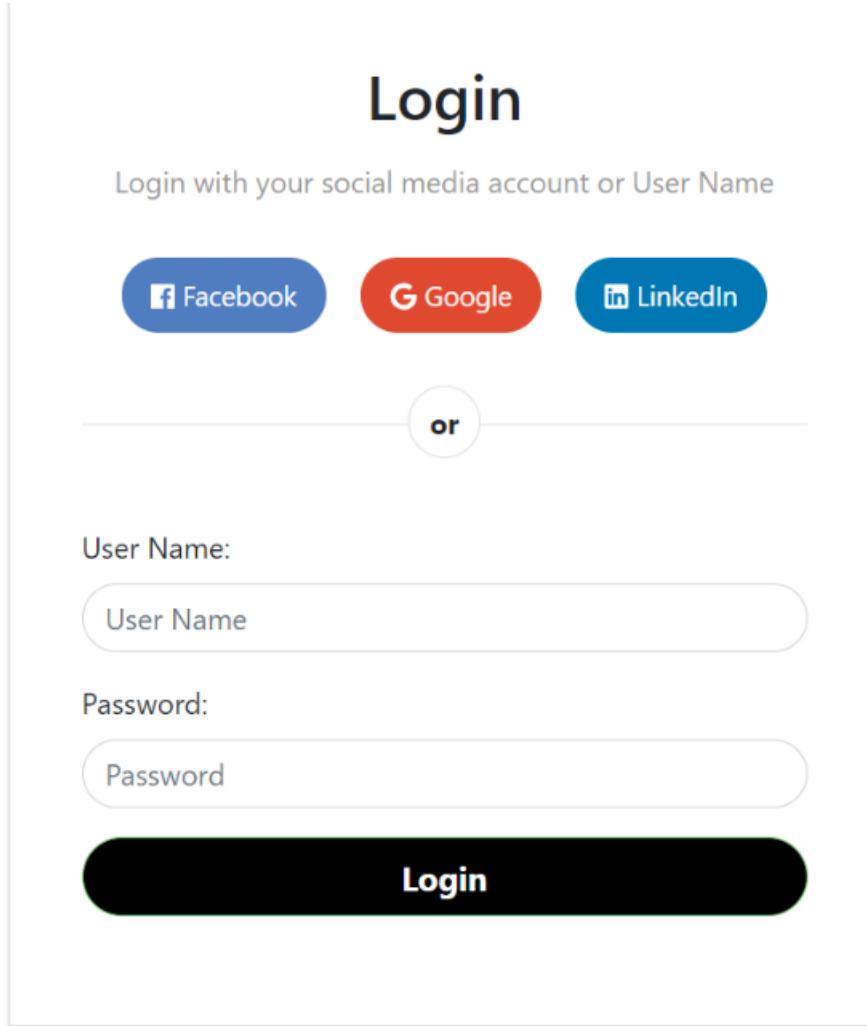


Figure 6.3: Login Page

## Companies Category

User can select the company sector in which he/she is interested.

The screenshot shows the 'Companies Category' page of the Placement Assistant website. At the top left is the logo 'Placement Assistant' with the tagline 'Helping you to make the right move'. The top navigation bar includes links for Home, Companies, Recruitment process, Help-Community, Alumni-Support, About, Contact Us, and user authentication (admin, Logout). The main title 'Companies Category' is centered above a sub-instruction 'Get Trained to get placement in these sectors'. Below this, there are three categories: 'IT and Software Services' (represented by a server room image), 'Real Estate Companies' (represented by a house icon and the text 'REAL ESTATE'), and 'Telecommunications' (represented by a signal tower icon and the text 'COMMUNITY TELECOMMUNICATIONS Group LTD'). Each category has an 'Open' button and a green circular message icon.

Placement Assistant  
Helping you to make the right move

Home Companies Recruitment process Help-Community Alumni-Support About Contact Us admin Logout

## Companies Category

*Get Trained to get placement in these sectors*

**IT and Software Services**

IT and Software Companies

**Real Estate**

Real Estate Companies

**COMMUNITY**  
TELECOMMUNICATIONS Group LTD

Telecommunications

Figure 6.4: Companies Category

Home Companies Recruitment process Help-Community Alumni-Support About Contact Us     admin 



Public Sector Undertakings





Auto And Ancillaries



Metal & Mining





Power

Figure 6.5: Companies Category continuation

## IT and Software companies

User can select the company from IT and software sector in which he/she is interested.



Figure 6.6: IT and Software companies

## Company Detail

User can select the company sector in which he/she is interested.

The screenshot shows a web interface for managing company details. At the top, there is a navigation bar with links: Home, Companies, Recruitment process, Help-Community, Alumni-Support, About, and Contact Us. On the far right of the bar are icons for 'admin' and 'Logout'. Below the navigation bar, the word 'IBM' is prominently displayed in a large, bold, black font. Underneath this, there is a section titled 'About IBM: -' followed by a detailed description of the company. Another section below it is titled 'IBM Selection Process: -' with its own descriptive text. To the right of the main content area, there is a small circular icon containing a speech bubble symbol, likely for messaging or comments. The overall layout is clean and professional, typical of a corporate intranet or recruitment portal.

**About IBM: -**

The International Business Machines Corporation (IBM) is an American multinational technology and consulting corporation, with headquarters in Armonk, New York, United States. IBM manufactures and markets computer hardware and software, and offers infrastructure, hosting and consulting services in areas ranging from mainframe computers to nanotechnology.

**IBM Selection Process: -**

In case of job recruitment, selection is the process to choose potential working persons for a company or organization. IBM Recruitment process includes a selection stage when decisions are made as to the viability of a particular candidate's job application. It directly affects the overall productivity of an organization. A right selection may increase the overall performance of a company & a wrong one may lead to material and financial loss. A perfect selection process can help to pick the most eligible candidates amongst all applicants. The Process of selecting candidates focuses on abilities, knowledge, skills, experience and various other related factors.

Stages of selection process to get recruited in IBM:

- Written Exam For
  - IBM GBS ( Global Business Solutions)

Figure 6.7: Companies details

## Alumni Chat Support

Registered user can directly interact with alumni of different companies using chat support

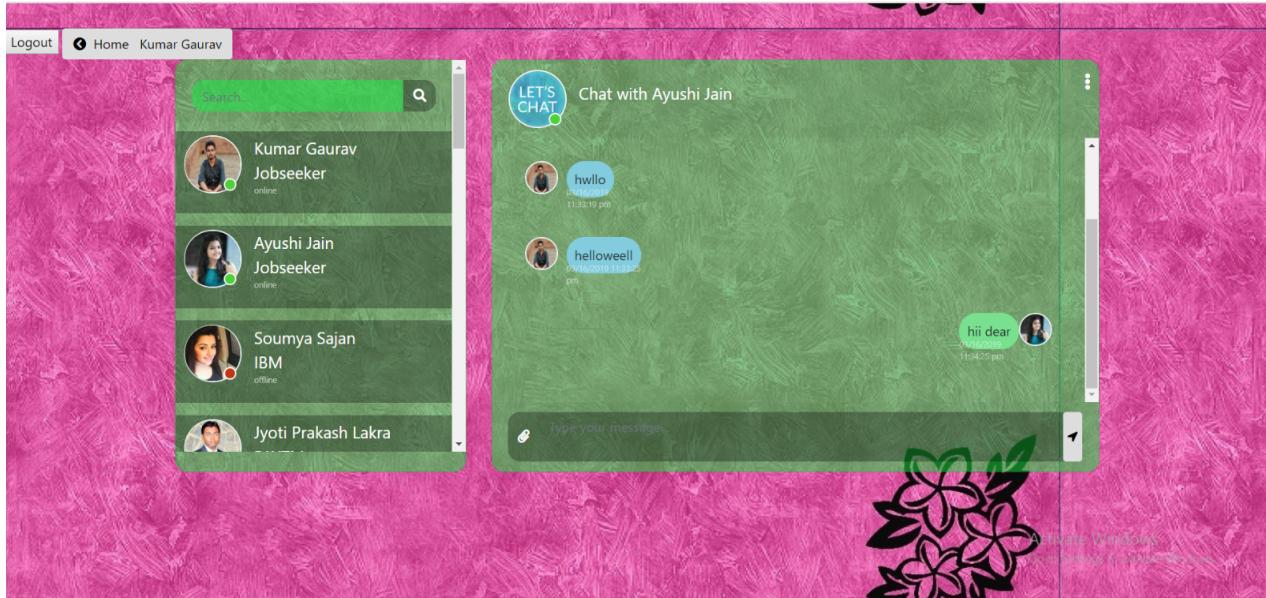


Figure 6.8: Alumni chat support

## Help community

Users can ask their queries on community as well as can answer others queries asked in community.

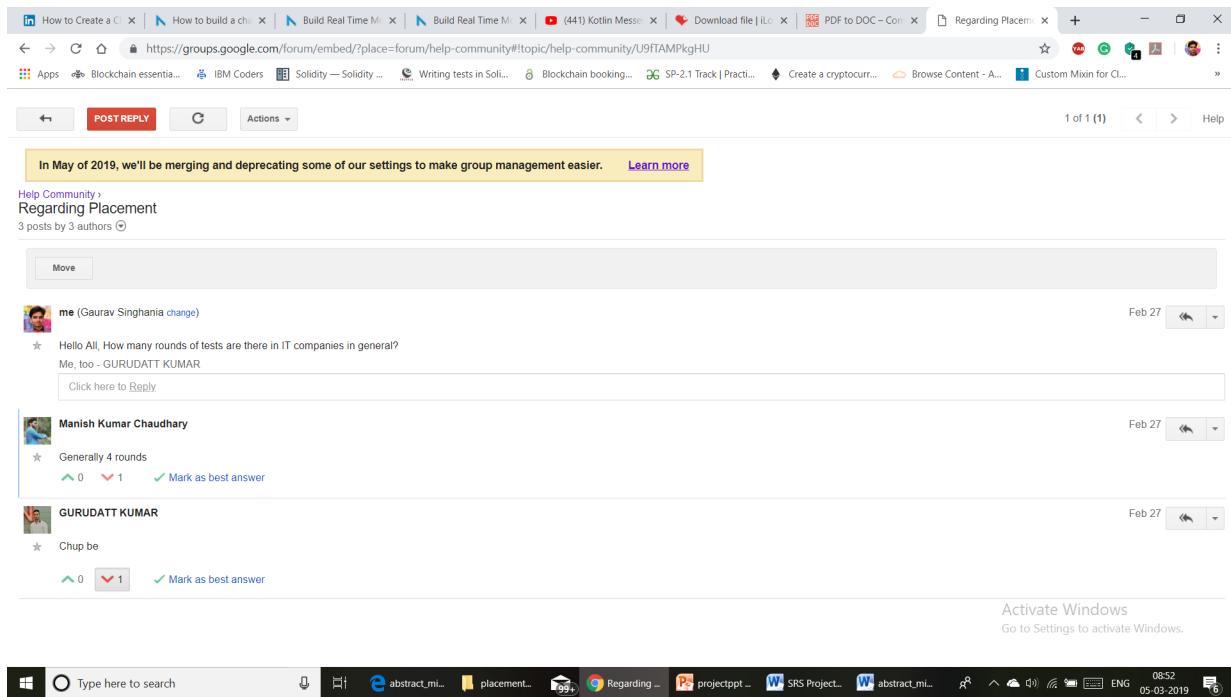


Figure 6.9: Help community support

## Social media Support

Social media page like facebook page on the name of Placement Assistant where users will get latest information regarding vacancies in different companies. Users can chat with their peers as well as alumni by forming group as well as individually.



Figure 6.10: Social Media support

## Chat Support

It provides automatic chat support to users regarding basics queries. Users can ask their queries in the form of text as well as in form of audio. It has been implemented using Dialogflow.

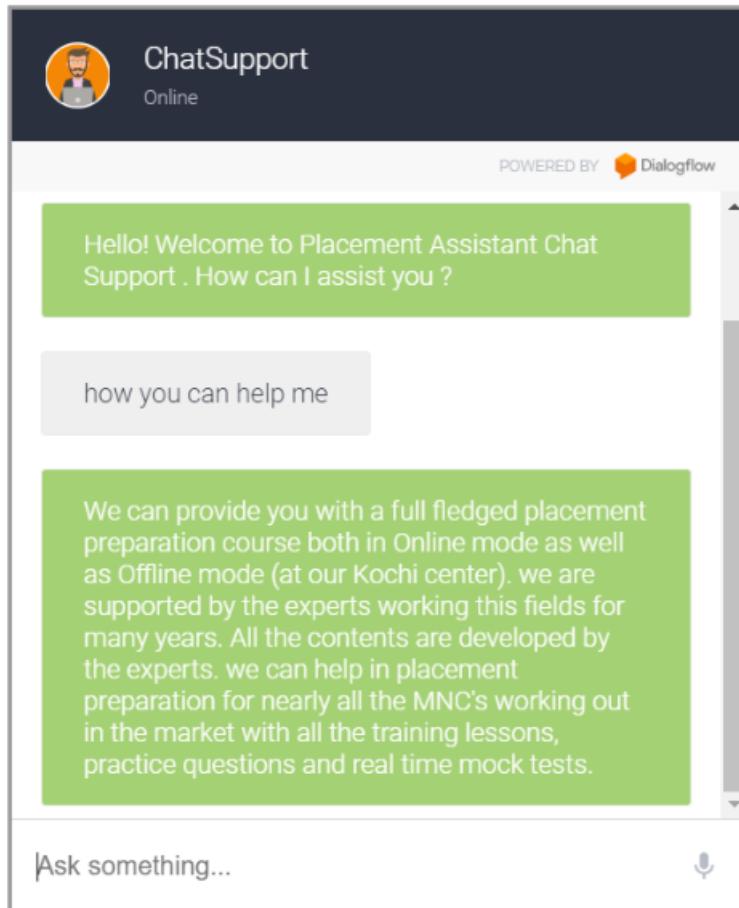


Figure 6.11: Chat Support

## Take Test

Users can give test for a particular company and assess their preparation.

The screenshot shows a web-based test module for IBM. At the top left, there's a navigation bar with 'Online Prep Test' > 'Placement Papers' > 'IBM'. On the right side of the top bar are links for 'Test Discussions', 'Question Bank', 'FAQ', and a 'My Report' button. Below the top bar, the main content area has a header 'Online Test | IBM' and a sub-header 'Practice Tests for IBM'. A large blue banner features a 'Take Test' button and the text '\* All Section Covered'. To the right of the banner are links for 'About IBM' and 'Discussions'. The main content area is divided into several sections: 'Business Communication Skills' (with a 'Take Test' button), 'Aptitude' (with a 'Take Test' button), 'Reasoning' (with a 'Take Test' button), 'Numerical Reasoning' (with a 'Take Test' button), and 'Analytical Reasoning' (which is currently not visible). On the far left, there's a sidebar containing a list of companies, with 'IBM' being the active category, indicated by a blue border around its name. Other companies listed include TCS, Infosys, HCL, Accenture, Birla Soft, Wipro, Amazon, Genpact, Mahindra Satyam, HP, Grapecity, Capgemini, 3i Infotech, and Blue Star Infotech. Each company entry has a small 'Take Test' button next to it.

Figure 6.12: Test Module



## **Chapter 7**

# **Future Scope**

There is always a scope for innovation when it comes to technology. Even our project is no exception , some possible improvements that can be made in the project in the near future are :

Option for the support team to ask for money for the alumni support or consultancy support. It will help the team to make it profitable.

Collaborate different MNCs and local companies on this portal which can share job openings in his company for different posts and complete learning and recruitment process.

This portal can also provide learning material and practice exams for different government level competitive exams like GATE, SSC etc which are helpful for getting a job .

To conduct competitive exams among its users across nation to get evaluate oneself where he/she stands. The exams are very similar to recruitment exam conducted by companies.

Help in getting a confirmed internship.

Document evaluation like evaluation of resumes , LORs , cover page , profile building etc.

Career Counselling.



# **Chapter 8**

## **Conclusion**

Your career is just a click away. Placement Assistant application can be very easily accessed by job seekers for the placement preparation at nearly no cost at all. It provides all the features which make it a valid platform for mass users for getting trained for the placement. All the features provided does a great help to the students in order to prepare for their campus placement. The proposed solution will not only help to any specific sector but it covers support for nearly every sector.

Our proposed web application will be feasible for novice users like graduate students as well as professional users. The proposed application will be used by students for preparation of campus recruitment drive and by professions who want to change jobs and want a better opportunity in product based companies. This web application reduces the time consumed in offline training as it can be accessed 24\*7 anywhere any time. Initially , it is free of cost for the job seekers. It is basically a transition from a manual job training center to digital job training portal. Any user having a internet access can use this learning portal on any device like personal computer, laptop, ipad and even smart phones.

Thus the problem associated with placement training is almost solved .



# Chapter 9

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- [1] Rajib Mal,Fundamentals Of Software Engineering,2 nd Edition.
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- [3] Learning Python, Mark Lutz, Oreilly, 2010
- [4] Django 2 Web Development Cookbook,Jake Kronika,3rd Edition

Weblinks:

- [1] <https://getbootstrap.com/docs/>
- [2] <https://docs.djangoproject.com/en/2.1/>
- [3] <https://www.w3schools.com/>
- [4] <https://www.geeksforgeeks.org/>
- [5] <https://www.freshersworld.com/>
- [6] <https://en.wikibooks.org/wiki/LaTeX>

# Chapter 10

## Appendix

### Login Page

```
<div class="signup-form">
    <form name="form" method="POST" action="">
        {% csrf_token %}
        <h2>Login</h2>
        <p class="hint-text">Login with your social media account or User Name</p>
        <div class="social-btn text-center">
            <a href="{% url 'social:begin' 'facebook' %}" class="btn btn-primary btn-lg"><i class="fab fa-facebook"></i> Facebook</a>
            <a href="{% url 'social:begin' 'google-oauth2' %}" class="btn btn-danger btn-lg"><i class="fab fa-google"></i> Google</a>
            <a href="{% url 'social:begin' 'linkedin-oauth2' %}" class="btn btn-lg" style="background-color:#0077b3;"><i class="fab fa-linkedin"></i> LinkedIn</a>
        </div>
        <div class="or-seperator"><b>or</b></div>
        {{ form.as_p}}
        <div class="form-group">
            <button type="submit" class="btn btn-success btn-lg btn-block signup-btn">Login</button>
        </div>
    </form>
    <dev>
        <center><p>Don't have an account? <a href="{% url 'signup' %}">Signup here</a></p></center>
    </dev>
</div>
```

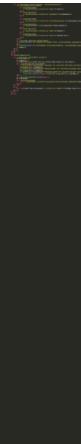


Figure 10.1: Login Page

```
STATIC_URL = '/static/'
STATICFILES_DIRS=(
    os.path.join(BASE_DIR,"static"),
)

LOGIN_REDIRECT_URL = 'home'
LOGIN_URL = 'login'

AUTHENTICATION_BACKENDS = (
    'social_core.backends.facebook.FacebookOAuth2',
    'social_core.backends.google.GoogleOAuth2',
    'social_core.backends.linkedin.LinkedinOAuth2',
    'social_core.backends.open_id.OpenIdAuth',
    'social_core.backends.google.GoogleOpenId',
    'django.contrib.auth.backends.ModelBackend',
)

SOCIAL_AUTH_GOOGLE_OAUTH2_KEY = '439281664367-069h1sk0t97blcaactc3app164b1gu0s.apps.googleusercontent.com'
SOCIAL_AUTH_GOOGLE_OAUTH2_SECRET = 'W062Q5qBuaBUyRdx2y7r5Fxu'
SOCIAL_AUTH_FACEBOOK_KEY = '1070857146434643'           #app id
SOCIAL_AUTH_FACEBOOK_SECRET = '6be232e07676506e8ed965f6bbc118c2'      #app secret key
```



Figure 10.2: Server side for Login

## Sign Up Page

```
<div class="signup-form">
  <form name="form" method="POST" action="">
    {% csrf_token %}
    <h2>Create an Account</h2>
    <p class="hint-text">Sign up with your social media account or email address</p>
    <div class="social-btn text-center">
      <a href="{% url 'social:begin' 'facebook' %}" class="btn btn-primary btn-lg"><i class="fab fa-facebook"></i> Facebook</a>
      <a href="{% url 'social:begin' 'google-oauth2' %}" class="btn btn-danger btn-lg"><i class="fab fa-google"></i> Google</a>
      <a href="{% url 'social:begin' 'linkedin-oauth2' %}" class="btn btn-lg" style="background-color:#0077b3;"><i class="fab fa-linkedin"></i> LinkedIn</a>
    </div>
    <div class="or-separator"><b>or</b></div>
    {{ form.as_p}}
    <div class="form-group">
      <button type="submit" class="btn btn-success btn-lg btn-block signup-btn">Sign Up</button>
    </div>
  </form>
  <div class="text-center">Already have an account? <a href="{% url 'login' %}">Login here</a></div>
</div>
```

Figure 10.3: Sign Up

## DataBase Connectivity

```
WSGI_APPLICATION = 'placementassistant.wsgi.application'

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.postgresql',
        'NAME': 'placementassistantdb',
        'USER': 'postgres',
        'PASSWORD': 'root',
        'HOST': 'localhost',
        'PORT': '5432'
    }
}

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]
```

Figure 10.4: DataBase Connectivity

## Django Files

```
from django.contrib import admin
from django.urls import path,include
from companies import views
from django.contrib.staticfiles.urls import staticfiles_urlpatterns

urlpatterns = [
    path('admin/', admin.site.urls),
    path('index/', views.home, name='home'),
    path('companies/', views.companies, name='companies'),
    path('softwarecompanies/', views.softwarecompanies, name='software')
    path('recruitmentprocess/', views.recruitmentprocess, name='recru')
    path('signup/', views.signup, name='signup'),
    path('login/', views.login, name='login'),
    path('', views.index, name='index'),
    path('auth/', include('social_django.urls', namespace='social')),
    path('accenture/', views.accenture, name='accenture' ),
    path('aws/', views.aws, name='aws' ),
    path('cisco/', views.cisco, name='cisco' ),
```

Figure 10.5:Urls file in Django

```
from django.shortcuts import render, redirect
from django.contrib.auth import authenticate, logout
from django.contrib.auth import login as auth_login
from django.contrib.auth.models import User
from django.http import HttpResponseRedirect, HttpResponseRedirect
from django.urls import reverse
from companies.forms import RegistrationForm, LoginForm
from django.shortcuts import render_to_response
from django.core.exceptions import ValidationError

# Create your views here.

def home(request):
    return render(request, 'companies/home.html')

def companies(request):
    return render(request, 'companies/companies.html')
```

Figure 10.6: Views file in Django

## Chat Application Page

```
17  <!DOCTYPE html>
18  <html>
19  <head>
20      <title>Chat</title>
21      <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt"
22      <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css/all.css" integrity="sha384-B4dIYHKNbt8Bc12p+WXckhzciCo0wtJAoU8YZTY5qE0Id
23      <link href="chat.css" rel="stylesheet">
24      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
25      <link rel="stylesheet" type="text/css" href="https://cdnjs.cloudflare.com/ajax/libs/malihu-custom-scrollbar-plugin/3.1.5/jquery.mCustomScrollbar.min.
26      <link href="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css" rel="stylesheet" id="bootstrap-css">
27  <script src="/maxcdn.bootstrapcdncdn.com/bootstrap/4.1.1/js/bootstrap.min.js"></script>
28  <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
29      <script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/malihu-custom-scrollbar-plugin/3.1.5/jquery.mCustomScrollbar.min.js"><scr
30      <script  $(document).ready(function(){ $('#action_menu_btn').click(function(){$('.action_menu').toggle()}); }); ></script>
31
32 <script>
33     function online_status()
34     {
35         $("#online_status").load("action.php").show(); // a function which will load data from other file after x seconds
36     }
37
38     setInterval('online_status()',1000);
39 </script>
40
41     <script>
42 $(document).ready(function()
43     {
44         $(document).bind('keypress', function(e) {
45             if(e.keyCode==13){
46                 $("#my_form").submit();
47                 $('#comment').val("");
48             }
49         });
50     });
51 </script>
```

Figure 10.7: Chat Application