

Department of Computer Science & Engineering

PROJECT FILE

TITLE OF PROJECT:

PLACES GO



**Chandigarh Group of Colleges
Chandigarh Engineering College Landran, Mohali**

**Submitted by:
Name: Vishal Kumar
Roll No: 1702927**

CERTIFICATE

I hereby certify that the work which is being presented in the B.Tech. Major Project Report entitled "**Places Go**", in partial fulfillment of the requirements for the award of the **Bachelor of Technology in Computer Science & Engineering** and submitted to the Department of Computer Science & Engineering of CGC-Chandigarh Engineering College Landran, Mohali Punjab is an authentic record of my own work carried out during a period from **Aug 2020 to Sept 2020(7th semester)** under the supervision of **Name & Designation of supervisor(s), Department of CSE.**

The matter presented in this Project Report has not been submitted by me for the award of any other degree elsewhere.

**Signature of Student
Vishal Kumar (1702927)**

This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.

Signature of Supervisor(s)

Date:

Name & Designation

Head of

Department of Computer Science & Engineering.

ACKNOWLEDGEMENT

I would like to place on record my deep sense of gratitude to Prof.____, HOD-Dept. **Computer Science & Engineering**, CGC-Chandigarh Engineering College Landran, Mohali, India for his generous guidance, help and useful suggestions.

I express my sincere gratitude to Prof.____, Dept. **Computer Science & Engineering**, CGC- Chandigarh Engineering College Landran, Mohali, India, for his stimulating guidance, continuous encouragement and supervision throughout the course of present work.

I also wish to extend my thanks to Prof.____ And other colleagues for attending my seminars and for their insightful comments and constructive suggestions to improve the quality of this project work.

I am extremely thankful to____, Principal, CGC-Chandigarh Engineering College Landran, Mohali, for providing me infrastructural facilities to work in, without which this work would not have been possible.

Signature(s) of Students

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ABSTRACT

I take this opportunity to express my sincere gratitude to the principal CGC-Chandigarh Engineering College Landran for providing this opportunity to carry out the present work.

I am highly grateful to the Dr.Manish Kumar HOD CSE, CGC-Chandigarh Engineering College, Landran (Mohali), for providing this opportunity to carry out the six month industrial training at Solitaire Infosys Pvt Ltd, Mohali. I would like to expresses my gratitude to other faculty members of Computer Science & Engineering department of CGC-Chandigarh Engineering College, Landran for providing academic inputs, guidance & Encouragement throughout the training period. The help rendered by Mr. Pakaj Palta, Supervisor for Experimentation is greatly acknowledged. Finally, I express my indebtedness to all who have directly or indirectly contributed to the successful completion of my industrial training.

Vishal Kumar **1702927**
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INTRODUCTION

Project Name: Places Go	
Environment	: Window 7, IDLE and Command Prompt
Link	: https://github.com/Manohar125643/Places-Go
Language / Database	: Django(Framework), Python, Google APIs(JSON data), HTML and CSS
Project Description	: A Web Application build over Django used to find the famous places in a city user want to visit. It will give top 20 places in result with weather report and added google maps which shows the location of that place.

What is Django?

Django is a free and open source web application framework, written in Python. A web framework is a set of components that helps you to develop websites faster and easier.

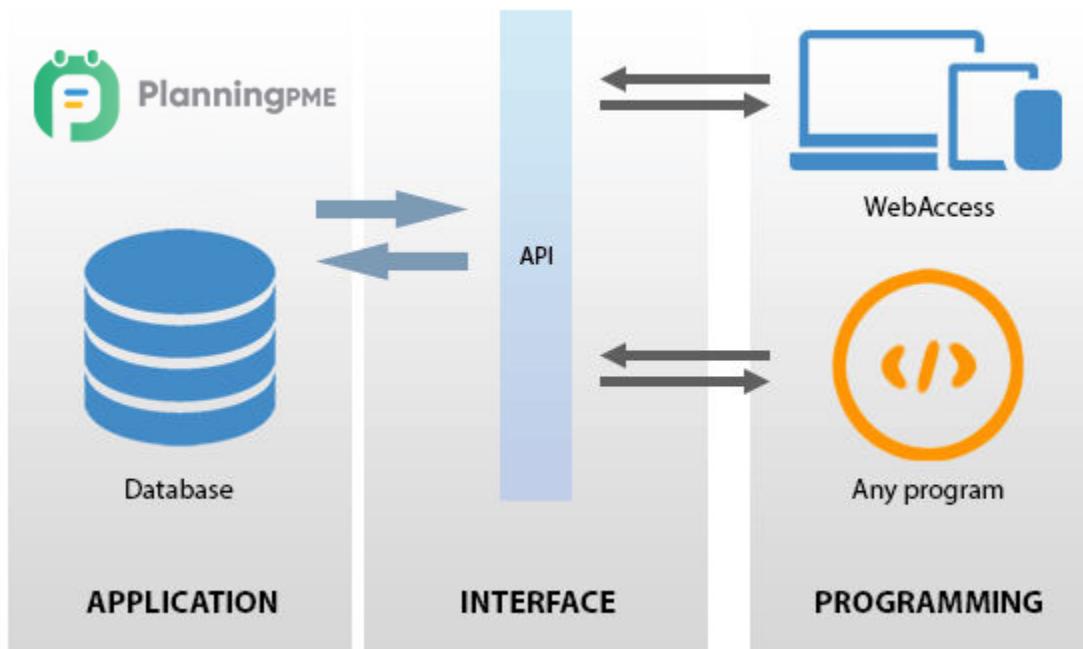
When you're building a website, you always need a similar set of components: a way to handle user authentication (signing up, signing in, signing out), a management panel for your website, forms, a way to upload files, etc.

Luckily for you, other people long ago noticed that web developers face similar problems when building a new site, so they teamed up and created frameworks (Django being one of them) that give you ready-made components to use.

Frameworks exist to save you from having to reinvent the wheel and to help alleviate some of the overhead when you're building a new site.

What exactly is an API?

API is the acronym for Application Programming Interface, which is a software intermediary that allows two applications to talk to each other. Each time you use an app like Facebook, send an instant message, or check the weather on your phone, you're using an **API**.



What is the use of Google Map API key?

A **Google Maps API** key is a personal code provided by Google to access Google Maps on this site. Your **API** key provides you with a free quota of Google Map queries. Your Google account will be automatically billed for any usage that exceeds your quota.

What is Open Weather Map API?

OpenWeatherMap is an online service, owned by **OpenWeather** Ltd that provides global **weather** data, including current **weather** data, forecasts, now casts and historical data (starting from 1979), utilizing meteorological broadcast services and raw data from airport **weather** stations, **radar** stations and other **weather**.

What is HTML and its tag?

HTML stands for Hyper Text Markup Language. **HTML** is the standard markup language for creating Web pages. **HTML** describes the structure of a Web page. **HTML** consists of a series of elements. **HTML** elements tell the browser how to display the content.

What is bootstrap 4 used for?

Bootstrap is a potent front-end framework used to create modern websites and web apps. It's open-source and free to use, yet features numerous HTML and CSS templates for UI interface elements such as buttons and forms. Bootstrap also supports **JavaScript** extensions.

OBJECTIVE

The objective is that whenever user want to visit a city for trip, holiday, vacation, tour, etc. user always look for famous places in that particular city, weather report and best routes to go with Google map location. So, for this user have to look in various websites and search.

So, Goal is that to make it **easier** for customer/user to plan their trip for this all the features were **available** in our website where you can find famous places in a particular city where user want to visit with weather report and provide best routes to go with Googlemaps location. It provides solutions for every problem a traveler might face during their journey. It provides a comprehensive list of information about a destination: current weather, best places to hangout, and city's current trends. Very useful for planning and organizing your visit. It is a very good tool for covering all aspects of the trip and it's free to use.

Planning your trip should be simple and fun with Places Go Web Application.

METHODOLOGY

Django is based on **MVT** (Model-View-Template) architecture. **MVT** is a software design pattern for developing a web application. **View:** The View is the user interface — what you see in your browser when you render a website. It is represented by HTML/CSS/JavaScript and Jinja files.

Model-View-Template

Model: Model is going to act as the interface of your data. It is responsible for maintaining data. It is the logical data structure behind the entire application and is represented by a database (generally relational databases such as MySQL, Postgres).

View: The View is the user interface — what you see in your browser when you render a website. It is represented by HTML/CSS/Javascript and Jinja files.

Template: A template consists of static parts of the desired HTML output as well as some special syntax describing how dynamic content will be inserted.



2.3 The Request Life-Cycle

A project is a sum of many applications. Every application has an objective and can be reused into another project, like the contact form on a website can be an application, and can be reused for others. See it as a module of your project.

Create an Application

We assume you are in your project folder. In our main “myproject” folder, the same folder then manage.py –

```
$ python manage.py startapp myapp
```

You just created myapp application and like project, Django create a “myapp” folder with the application structure –

```
myapp/
    __init__.py
    admin.py
    models.py
    tests.py
    views.py
```

- **__init__.py** – Just to make sure python handles this folder as a package.
- **admin.py** – This file helps you make the app modifiable in the admin interface.
- **models.py** – This is where all the application models are stored.
- **tests.py** – This is where your unit tests are.
- **views.py** – This is where your application views are.

Get the Project to Know About Your Application

At this stage we have our "myapp" application, now we need to register it with our Django project "myproject". To do so, update INSTALLED_APPS tuple in the settings.py file of your project (add your app name) –

```
INSTALLED_APPS = (
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'myapp',
)
```

2.5 Features of Django

Complete

Django follows the "Batteries included" philosophy and provides almost everything developers might want to do "out of the box". Because everything you need is part of the one "product", it all works seamlessly together, follows consistent design principles.

Versatile

Django can be (and has been) used to build almost any type of website — from content management systems and wikis, through to social networks and news sites. It can work with any client-side framework, and can deliver content in almost any format (including HTML, RSS feeds, JSON, XML, etc). The site you are currently reading is built with Django!

Internally, while it provides choices for almost any functionality you might want (e.g. several popular databases, templating engines, etc.), it can also be extended to use other components if needed.

Secure

Django helps developers avoid many common security mistakes by providing a framework that has been engineered to "do the right things" to protect the website automatically. For example, Django provides a secure way to manage user accounts and passwords, avoiding common mistakes like putting session information in cookies where it is vulnerable (instead cookies just contain a key, and the actual data is stored in the database) or directly storing passwords rather than a password hash.

Scalable

Django uses a component-based "shared-nothing" architecture (each part of the architecture is independent of the others, and can hence be replaced or changed if needed). Having a clear separation between the different parts means that it can scale for increased traffic by adding hardware at any level: caching servers, database servers, or application servers. Some of the busiest sites have successfully scaled Django to meet their demands (e.g. Instagram and Disqus, to name just two).

Maintainable

Django code is written using design principles and patterns that encourage the creation of maintainable and reusable code. In particular, it makes use of the Don't Repeat Yourself (DRY) principle so there is no unnecessary duplication, reducing the amount of code. Django also promotes the grouping of related functionality into reusable "applications" and, at a lower level, groups related code into modules (along the lines of the Model View Controller (MVC) pattern).

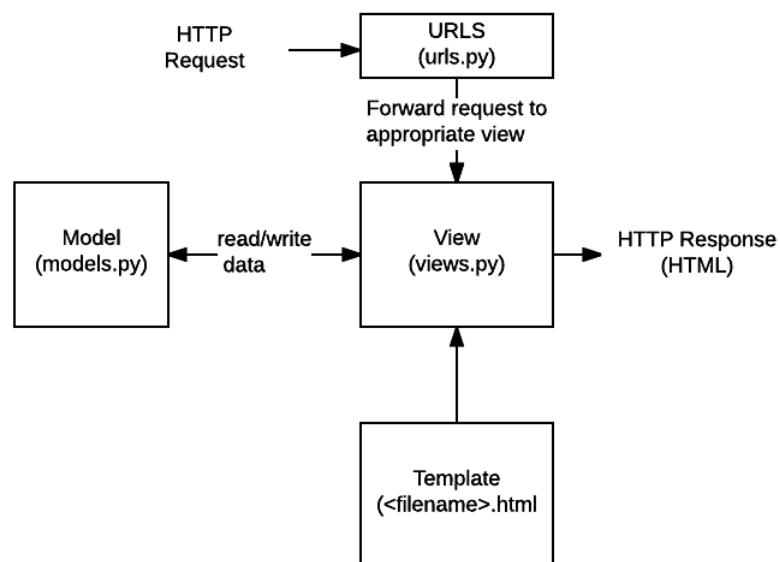
Portable

Django is written in Python, which runs on many platforms. That means that you are not tied to any particular server platform, and can run your applications on many flavours of Linux, Windows, and Mac OS X. Furthermore, Django is well-supported by many web hosting providers, who often provide specific infrastructure and documentation for hosting Django sites.

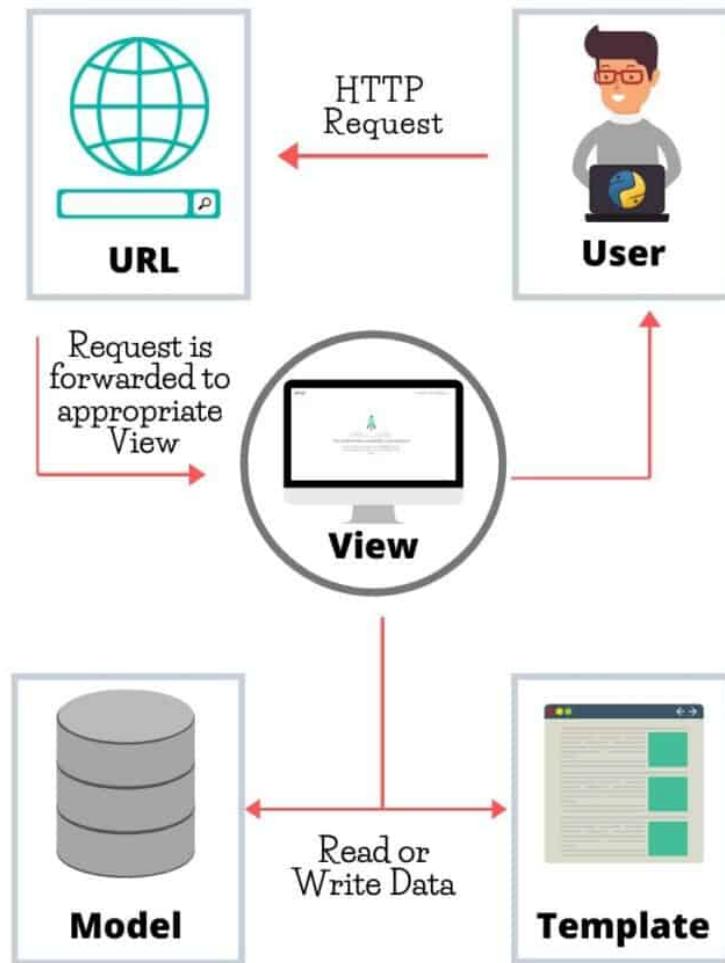
How popular is Django?

There isn't any readily-available and definitive measurement of popularity of server-side frameworks (although sites like [Hot Frameworks](#) attempt to assess popularity using mechanisms like counting the number of GitHub projects and StackOverflow questions for each platform). A better question is whether Django is "popular enough" to avoid the problems of unpopular platforms. Is it continuing to evolve? Can you get help if you need it? Is there an opportunity for you to get paid work if you learn Django?

Based on the number of high profile sites that use Django, the number of people contributing to the codebase, and the number of people providing both free and paid for support, then yes, Django is a popular framework!



BENEFITS OF DJANGO



Rich ecosystem. *Read Django like a system*, developers say. What they mean is that there are many third-party applications that come with Django. These applications can be integrated depending on project requirements. To imagine this better, think of Legos. There are many different Lego blocks. In app development, an authorization “block” or email sending “block” is present in almost every project. Django consists of many applications — such as for authorization and sending emails — that can easily be plugged into a system.

Maturity. Django has been around for 11 years and has gone through stages of significant improvement. A lot of things have been brought to perfection and many new things have been added. Most importantly, when you’re trying to figure out how something should work in Django,

you can usually find the answer. Thousands of people must have already solved any issue you’re dealing with, and you can find a solution provided by the passionate Django community.

Admin panel by default. Admin panels are designed to help you manage your application. A Django admin panel is generated automatically from Python code, whereas creating an admin panel manually would take a lot of time and be absolutely pointless.

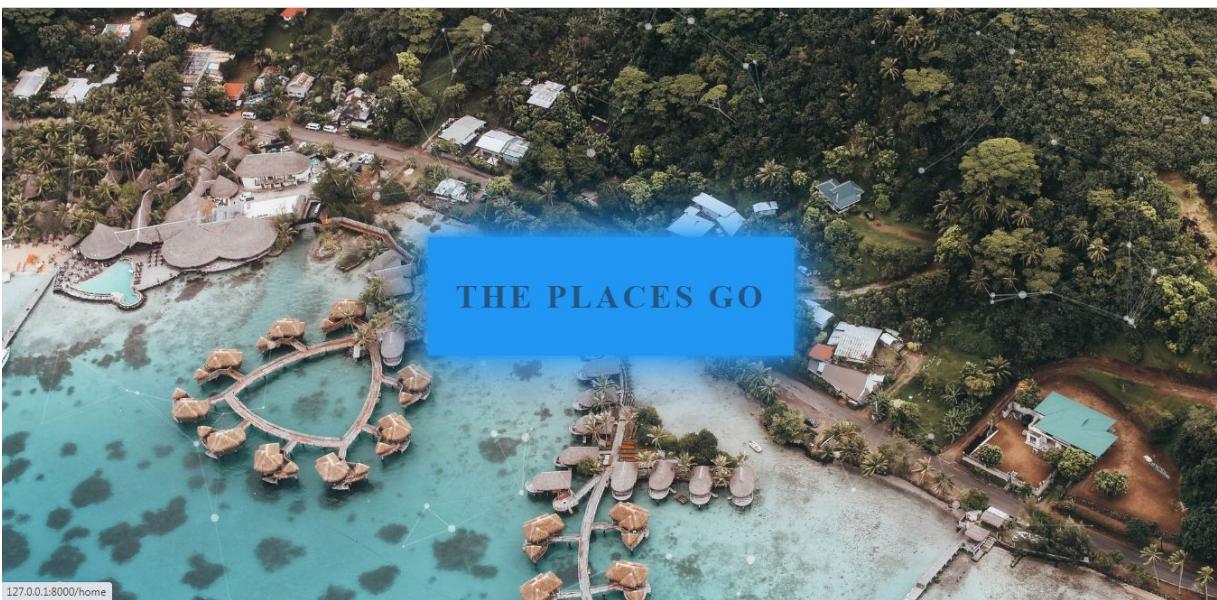
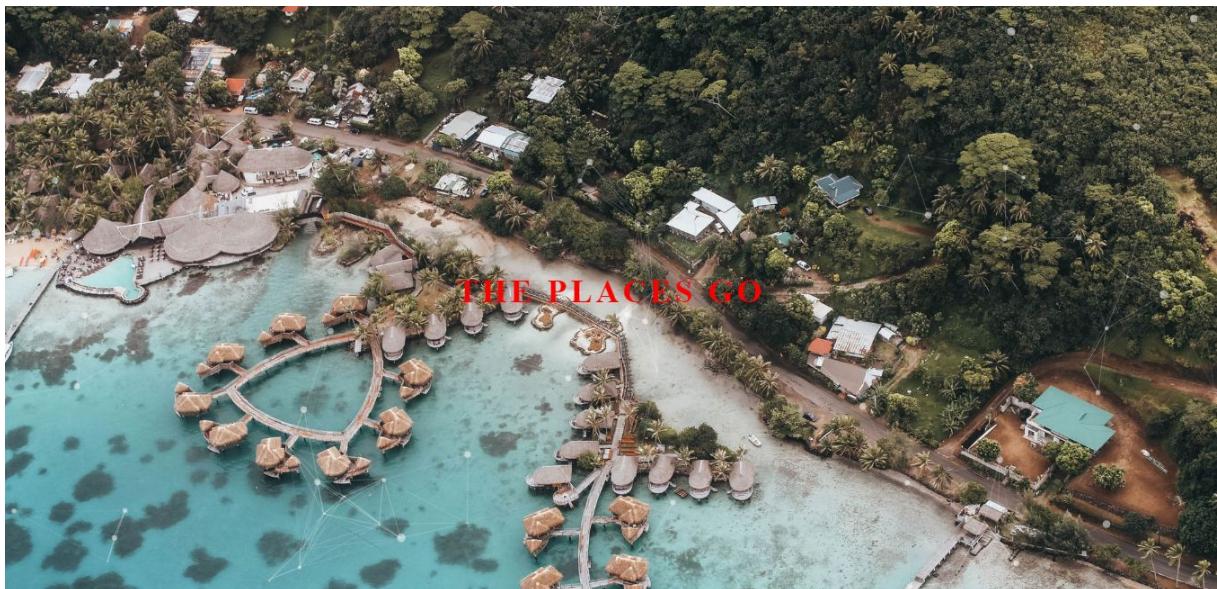
There’s a lot of room for customization in the Django admin panel thanks to third-party applications. Additionally, Django allows you to modify the interface with third-party wrappers and add dashboards unique to your needs.

Good for SEO. Python is famous for having human-readable code, and that’s an advantage if you want your site to rank high in search results. With Django, you can generate readable website URLs and links using the most relevant keywords and [search engine optimization \(SEO\) best practices](#). After all, a [domain name](#) is just a “human-readable” string that maps to a “computer friendly” set of numbers, known as an IP address. People fixate on getting the right domain name, but tend to neglect what the URL slug is—Django can fix that.

Pluggable. Django is pluggable by nature and can be extended with plugins. Plugins are software components that allow developers to add a specific feature to an app, leaving a lot of scope for customization. There are [hundreds of packages](#) to help you add [Google Maps](#), create [complex permissions](#), or [connect to Stripe](#) to process payments. And if you need to scale your project in the future, you can unplug some components and replace them with others that meet your current needs.

Libraries. Every programming language comes with its own set of libraries for solving common tasks. A software library includes prewritten code, classes, procedures, scripts, configuration data, and more. As a rule, a library is added to a program to provide more functionality or to automate a process without manually writing new code. This reduces time to market..

RESULT



Enter The Place Name

FEATURED TOURS Packages

Favourite Places



□9.0 Superb

Goa , India

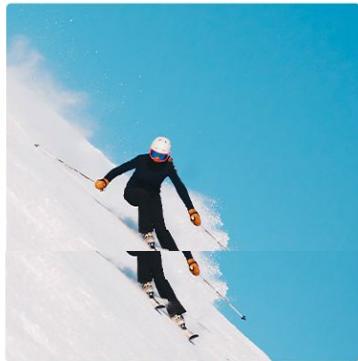
Beach Destinations



□8.0 Superb

Darjeeling , India

Tourist Place



□9.0 Superb

Auli , India

Skiing Destinations



□8.0 Superb

Kufri , India

Hill Stations



□8.0 Superb

Manali , India

Hiking Destinations



□8.0 Superb

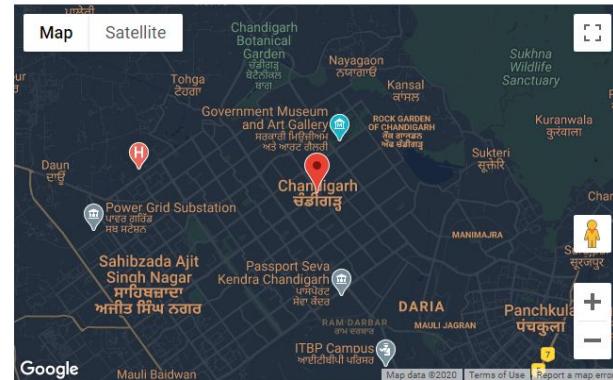
Shimla , India

Tourist Place

THE PALCES ARE :

- Chandigarh Botanical Garden
- Le Corbusier Centre
- Zakir Rose Garden (Chandigarh)
- Japanese Garden
- Government Museum and Art Gallery
- Garden of Fragrance
- Butterfly Park
- ISKCON Temple Chandigarh
- International Dolls Museum
- Garden of Silence
- Open Hand Monument
- Topiary Park
- Chandigarh Architecture Museum
- Rock Garden
- Sukhna Lake Park
- Leisure Valley
- Hibiscus Garden
- Fun City
- Children Traffic Park
- Terraced Garden

Chandigarh ☀ 25°C Clear Sky



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Chandigarh ☀ 25°C Clear Sky



Future Scope

- Hotel Booking
- Can add Bot
- Provide Best Route
- Booking Cabs

Reference

List of References: -

- <http://www.google.co.in>
- <http://www.youtube.com>
- <https://www.tutorialspoint.com/django>

CONCLUSION

Finally, a working project was successfully made which enabled user to search any place and get the list of attraction in the place along with weather details.