

PROJECT RED MIND

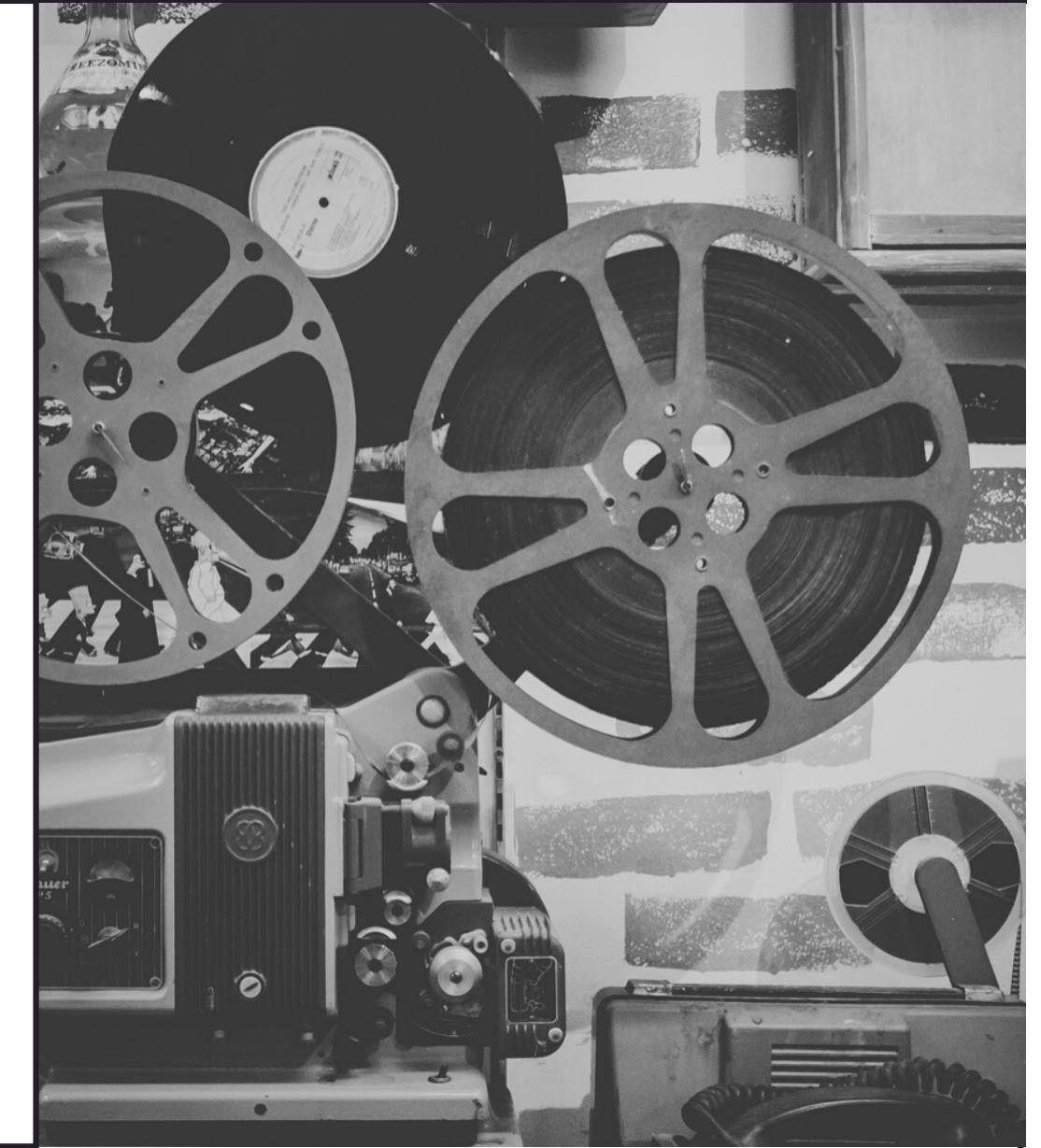
# MOVIE RECOMMENDATION WITH REVIEW ANALYSIS SYSTEM

# Introduction

03

## WHAT IS MOVIE REVIEW SYSTEM?

This is to computerize and recommend movies based on genre preferences that are user-friendly, simple, fast, and cost-effective.



# Main Objective

03

- ① Information about every released movie.
- ② Generating user review system.
- ③ Storing critic and user review data in the database.
- ④ Recommend movies according to specific user preferences.
- ⑤ Display review and rating information of a particular movie chosen by any user.
- ⑥ Give user access to give review or comment on a movie.



## HARDWARE SPECIFICATION (MINIMUM REQUIREMENTS)

**PROCESSOR:** INTEL DUAL CORE, I3

**RAM:** 1 GB

**HARD DISK:** 80 GB

## SOFTWARE (MINIMUM REQUIREMENTS)

**O.S:** WINDOWS 7/ XP/8/10

**FRONT END:**

HTML, CSS, JavaScript, Bootstrap

**BACK END:** Python, Django

**SERVER:** Apache Tomcat Server

**DATABASE:** SQLITE3

# PROJECT ANALYSIS

The entire project mainly consists of 3 modules, which are:

- 1 Admin module
- 2 Movie Review Module
- 3 System Design

05

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# Admin Module

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## DASHBOARD

In this section, the admin can view the total number of users, movies according to years and their genres.

## MOVIES

In this section, the admin can add any movie specialization and manage according to requirement.  
(Add/Update).

## CONTACT US

In this section, the admin can view queries that are sent by the users.

# Movie Review Module

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## SEARCHBAR

A search box is usually a single-line text box or searches with the dedicated function of accepting user input to be searched for in a database.

## MOVIE DESCRIPTION

Details about the plot, cast and crew members, and critical reviews as well as different user reviews can be seen here.

## SIMILAR MOVIES

Similar movies based on user preferences can be seen here.

# SYSTEM DESIGN

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## USER INTERFACE DESIGNS

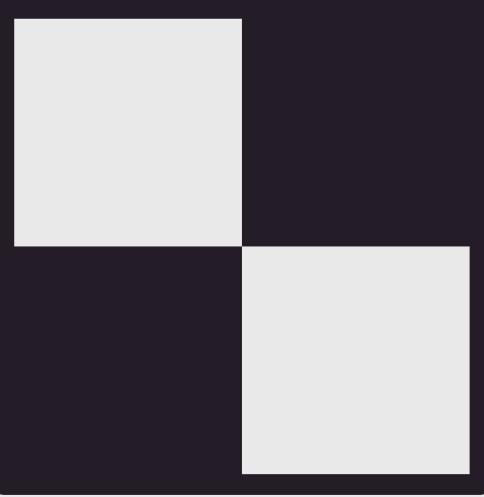
User Interface (UI) Design focuses on anticipating what users might need to do and ensuring that the interface has elements that are easy to access, understand, and use to facilitate those actions.

## DATA STORAGE

Data storage essentially means that files and documents are recorded digitally and saved in a storage system for future use.

# DATA ANALYSIS

# Data Collection

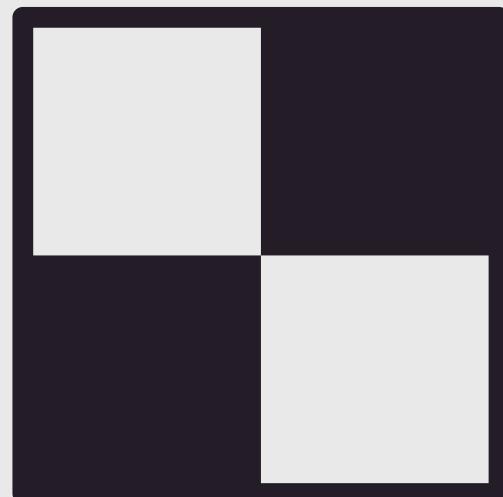


To collect movie data here we are using web scraping and Web API. For collecting the data of Bollywood movies we are using python modules such as to request, urllib, BeautifulSoup, etc. And for collecting the data of Hollywood movies we are using the TMDB API.

## TECHNICAL ASPECTS



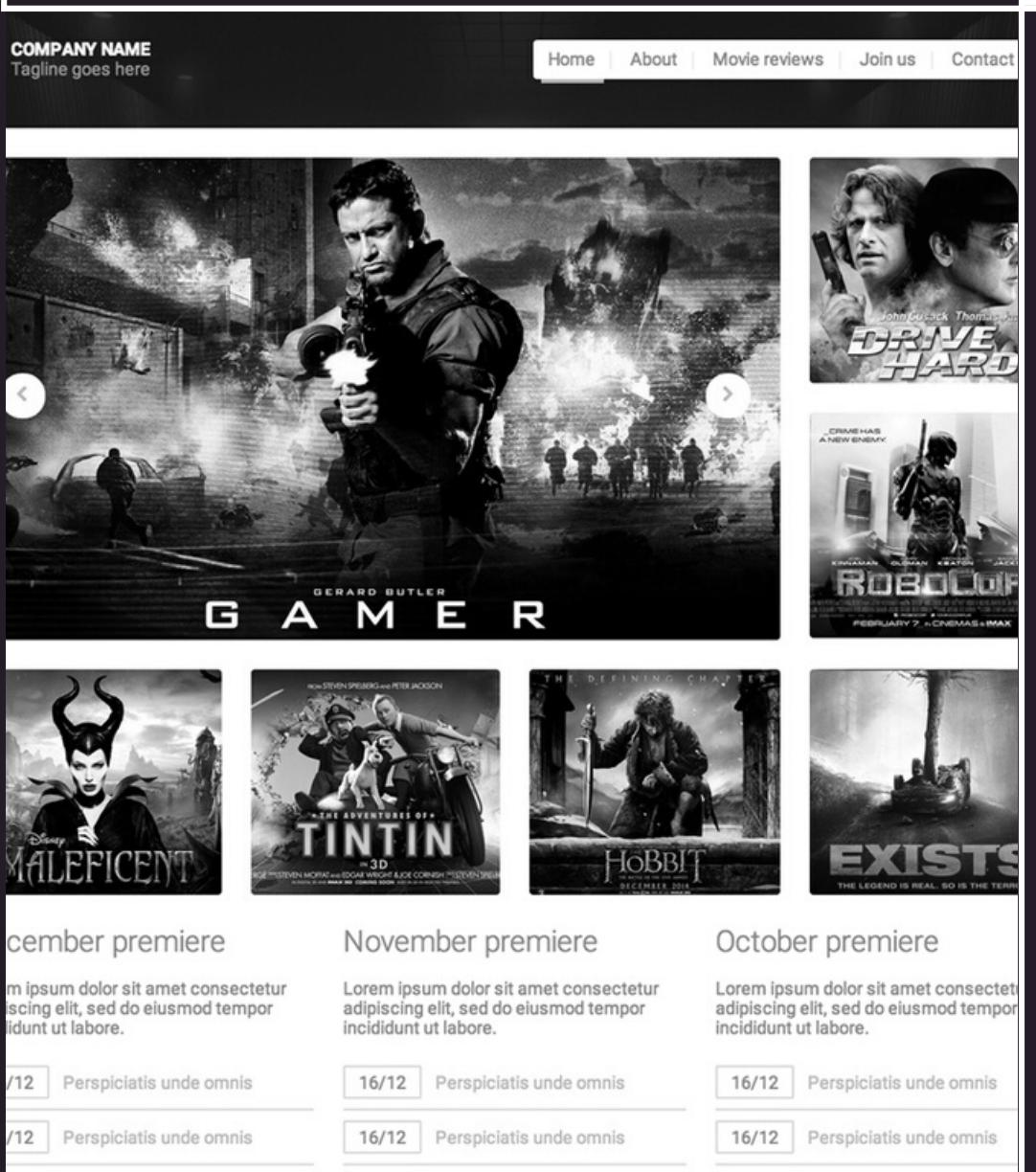
# Data Preprocessing



After collecting the data we apply some data preprocessing to prepare the relevant dataset for creating the machine learning model

# FRONTEND

15



The website is primarily designed using HTML as its base and for styling, we have used cascading style sheets (CSS), furthermore to give it a dynamic approach we have integrated javascript with it. It gives an interactive show to the user making them more engaged.

To make the code less bulky jquery is used to wrap texts and call them with a single line of code. Bootstrap makes the site more efficient and responsive by creating better UI/UX templates.

# BACK END

16

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Extracting Genres of 2019 movies

In [32]: df2=pd.read_csv('2019.csv')
df2.head()

Out[32]:
   Unnamed: 0  Opening  Opening.1    Title  Production company  Cast and crew  Ref.
0      NaN       4  Escape Room  Columbia Pictures  Adam Robitel (director); Bragi F. Schut, Maria...  [2]
1      NaN       4   Rust Creek     IFC Films  Jen McGowan (director); Julie Lipson (screenpl...  [3]
2      NaN       4 American Hangman  Hangman Justice Productions  Wilson Coneybeare (director/screenplay); Donald...  [4]
3      NaN      11 A Dog's Way Home  Columbia Pictures  Charles Martin Smith (director); W. Bruce Came...  [5]
4      NaN      11      The Upside  STX Entertainment  Neil Burger (director); Jon Hartmere (screenpl...  [6]

In [33]: df2.drop(['Unnamed: 0','Opening','Opening.1','Ref.'],axis=1,inplace=True)
df2.head()

Out[33]:
      Title  Production company  Cast and crew
0  Escape Room  Columbia Pictures  Adam Robitel (director); Bragi F. Schut, Maria...
1   Rust Creek     IFC Films  Jen McGowan (director); Julie Lipson (screenpl...
2 American Hangman  Hangman Justice Productions  Wilson Coneybeare (director/screenplay); Donald...
3  A Dog's Way Home  Columbia Pictures  Charles Martin Smith (director); W. Bruce Came...
4      The Upside  STX Entertainment  Neil Burger (director); Jon Hartmere (screenpl...

In [34]: df2['genres'] = df2['Title'].map(lambda x: get_genre(str(x)))
df2.head()

Out[34]:
      Title  Production company  Cast and crew  genres
0  Escape Room  Columbia Pictures  Adam Robitel (director); Bragi F. Schut, Maria...  Thriller Action Mystery Adventure Horror
1   Rust Creek     IFC Films  Jen McGowan (director); Julie Lipson (screenpl...  Thriller Drama
2 American Hangman  Hangman Justice Productions  Wilson Coneybeare (director/screenplay); Donald...  Thriller
3  A Dog's Way Home  Columbia Pictures  Charles Martin Smith (director); W. Bruce Came...  Drama Adventure Family
4      The Upside  STX Entertainment  Neil Burger (director); Jon Hartmere (screenpl...  Comedy Drama

In [35]: df2.to_csv('2019_with_genres.csv')

In [47]: df=df1.append(df2,ignore_index=True)
df.head()

Out[47]:
      Title  Production company  Cast and crew  genres
0  Insidious: The Last Key  Universal Pictures / Blumhouse Productions / S...  Adam Robitel (director); Leigh Whannell (screenpl...  Mystery Horror Thriller
1   The Strange Ones  Vertical Entertainment  Lauren Wolkstein (director); Christopher Radcl...  Thriller Drama
2     Stratton  Momentum Pictures  Simon West (director); Duncan Falconer, Warren...  Action Thriller
3   Sweet Country  Samuel Goldwyn Films  Warwick Thornton (director); David Tranter, St...  Drama History Western
4   The Commuter  Lionsgate / StudioCanal / The Picture Company  Jaume Collet-Serra (director); Byron Willinger...  Action Thriller

In [ ]: df.to_csv('2018_')

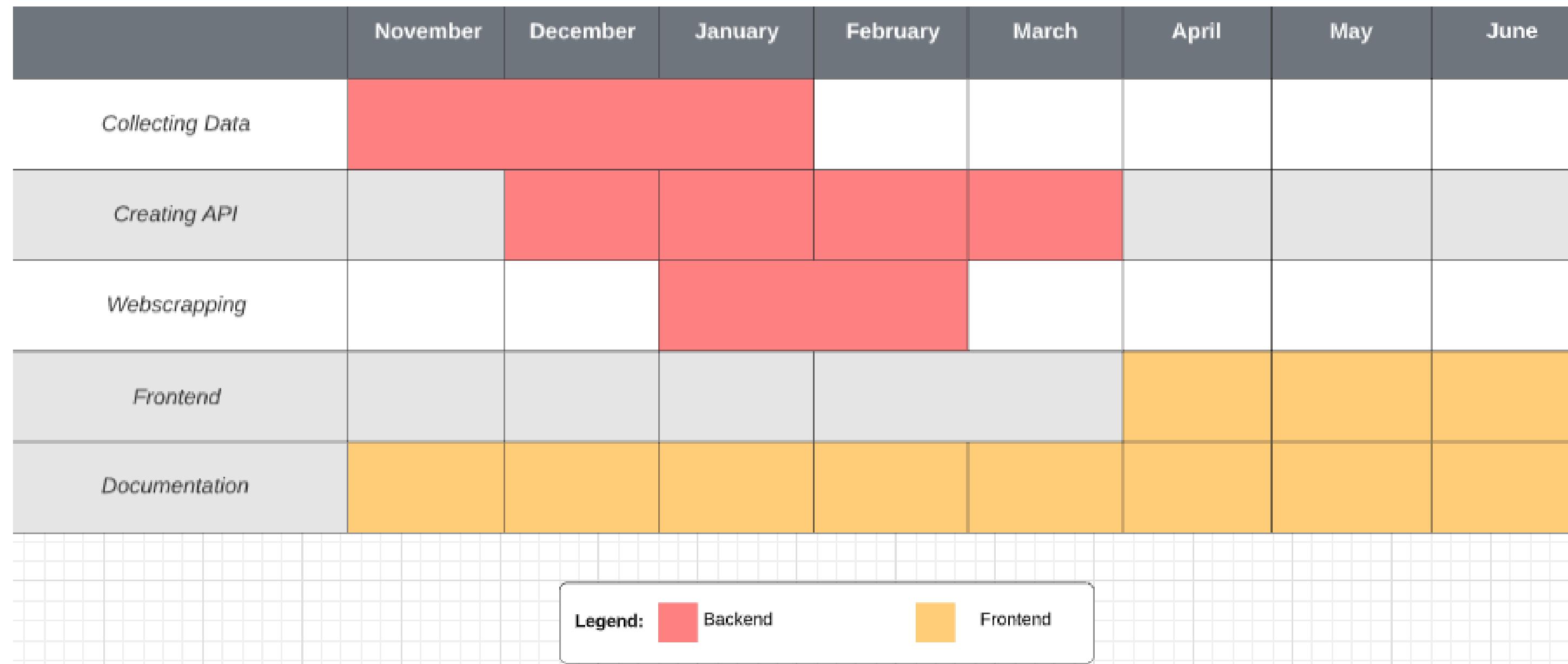

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In this project, we are using the Django Web Framework. Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. It takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel.

Further, we have used flask API, our API is a system we provide for you and your team to programmatically fetch and use our data and images.

# Gantt Chart



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# Conclusion

This solution is carefully analyzed and after the evaluation of the possible solutions, the most feasible solution for this project is identified and selected, so the project turns to be cost-effective, vital, and practical. Thus processing information will be faster. It guarantees accurate maintenance of details. It easily reduces the bookkeeping task and thus reduces the human effort and increases accuracy speed.

# Famous Minimalist Buildings

ABHISHEK KUMAR  
YADAV

Project Testing

ALISHA PARVEEN

Frontend and Project  
Documentation

SATYAM SETH

Data Collection,  
Creating API, Backend,  
Deployment

ANKIT KUMAR  
GUPTA

Creating Recommendation  
and Sentiment Analysis  
ML models

HARSHIT DIXIT

Frontend