

```
1 import streamlit as st
2 import pickle
3 import pandas as pd
4 import requests
5
6
7 def fetch_poster(movie_id):
8     response = requests.get('https://api.themoviedb.
    org/3/movie/{}?api_key=
    8265bd1679663a7ea12ac168da84d2e8&language=en-US'.
    format(movie_id))
9     data = response.json()
10
11     return "https://image.tmdb.org/t/p/w500/" + data[
    'poster_path']
12
13
14 def recommend(movie):
15     movie_index = movies[movies['title'] == movie].
    index[0]
16     distances = similarity[movie_index]
17     movies_list = sorted(list(enumerate(distances)),
    reverse=True, key=lambda x: x[1])[1:6]
18
19     recommended_movies = []
20     recommended_movies_posters = []
21     for i in movies_list:
22         movie_id = movies.iloc[i[0]].movie_id
23         # fetch poster from API
24         recommended_movies.append(movies.iloc[i[0]].
    title)
25         recommended_movies_posters.append(
    fetch_poster(movie_id))
26     return recommended_movies,
    recommended_movies_posters
27
28 similarity = pickle.load(open('similarity.pkl','rb'))
29 movies_dict = pickle.load(open('movie_dict.pkl','rb'
    ))
30 movies = pd.DataFrame(movies_dict)
31
```

```
32 st.title('Movie Recommender System')
33
34 selected_movie_name = st.selectbox(
35     "How would you like to be contacted?",
36     movies['title'].values)
37 if st.button("Recommended"):
38     names,posters = recommend(selected_movie_name)
39
40     col1,col2,col3,col4,col5 = st.columns(5)
41     with col1:
42         st.text(names[0])
43         st.image(posters[0])
44     with col2:
45         st.text(names[1])
46         st.image(posters[1])
47     with col3:
48         st.text(names[2])
49         st.image(posters[2])
50     with col4:
51         st.text(names[3])
52         st.image(posters[3])
53     with col5:
54         st.text(names[4])
55         st.image(posters[4])
```