./

GENESIS – Advanced Python Report



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Ver. Rel. No.** | **Release Date** | **Prepared. By** | **Reviewed By** | **To be Approved** | **Remarks/Revision Details** |
| 01 | 12-12-2020 | Sriram R M |  | Srinivas |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Details**

Contents

[Contents 3](#_Toc58758669)

[MOVIE TICKET BOOKING MANAGEMENT SYSTEM 4](#_Toc58758670)

[**Python Code without OOPS concept:** 4](#_Toc58758671)

[**PEP8 Screenshot:** 6](#_Toc58758672)

[**Python Code using OOPS Implementation:** 7](#_Toc58758673)

[**PEP8 Screenshot**: 11](#_Toc58758674)

[Figure 1 PEP8 for code without OOPS concept 6](#_Toc58758689)

[Figure 2PEP8 for code with OOPS concept 11](#_Toc58758690)

# MOVIE TICKET BOOKING MANAGEMENT SYSTEM

## **Python Code without OOPS concept:**

movie\_list = {"Superman": 250, "Avengers": 300, "Hulk": 200}

a = 1

def movie\_add():

movie = input("Enter movie name")

while True:

try:

price = int(input("Enter price of the ticket"))

break

except:

print("Invalid input")

movie\_list[movie] = price

print("Movie added successfully")

def movie\_view():

print("Movies running now")

cnt = 1

for i in movie\_list.keys():

print(cnt, "Movie Name-", i, "\tTicket Price-", movie\_list[i])

cnt = cnt+1

print("\n")

def movie\_search():

movie = input("Enter movie name\t")

if movie in movie\_list.keys():

print(movie, "\navailable\n")

return 1

else:

print("\nMovie not available\n")

def movie\_book():

movie = input("Enter movie name\t")

if movie in movie\_list.keys():

total\_ticket = int(input("Enter the number of tickets to be booked\t"))

price = movie\_list[movie]

cost = (price\*total\_ticket)

print("Movie booked succesfully")

print("Amount to be paid: ", cost, "\n")

else:

print("\nMovie not available")

def menu():

while True:

print("Welcome to the home screen")

print("Enter 1 to view movies")

print("Enter 2 to search a mpvie")

print("Enter 3 to add a movie")

print("Enter 4 to book a movie")

while True:

try:

choice = int(input("Enter the choice"))

break

except:

print("Invalid input")

if(choice == 1):

movie\_view()

elif(choice == 2):

movie\_search()

elif(choice == 3):

movie\_add()

else:

movie\_book()

menu()

## **PEP8 Screenshot:**

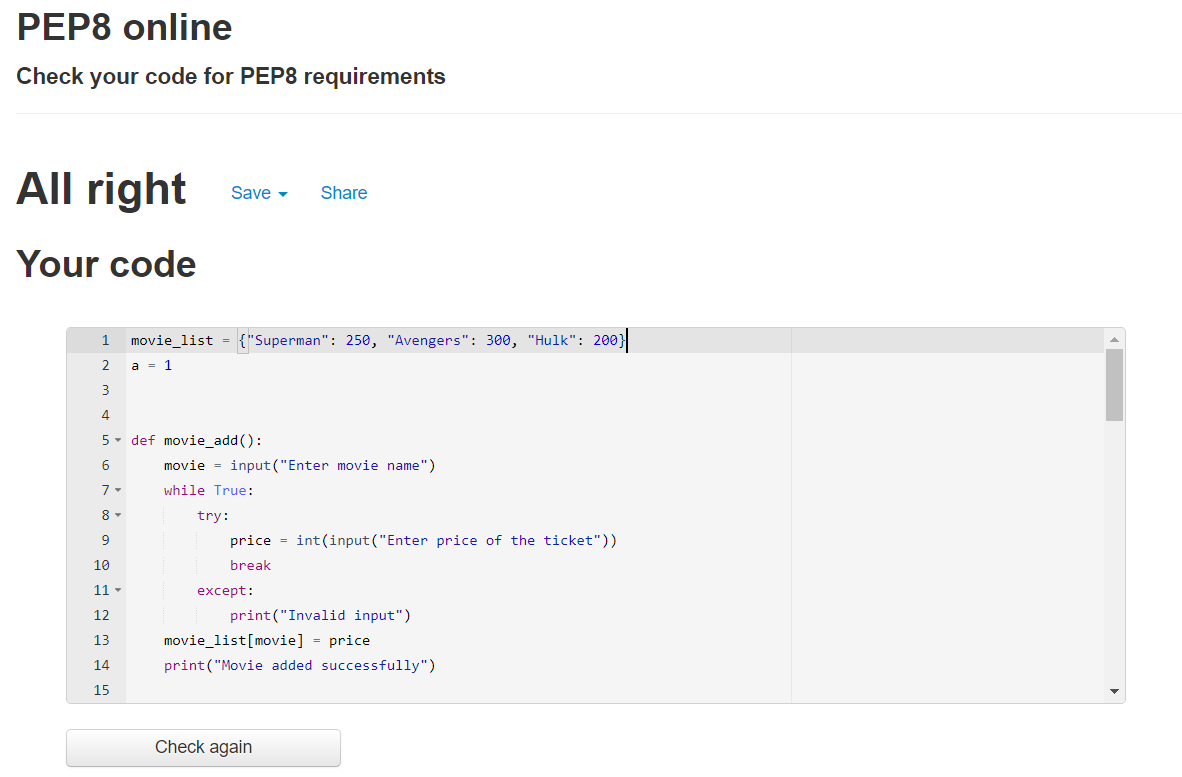


Figure PEP8 for code without OOPS concept

## **Python Code using OOPS Implementation:**

import requests # For making http requests

import re # For regular expressions

from bs4 import BeautifulSoup # For pulling data out of HTML files

movie\_list = {"Superman": 250, "Avengers": 300, "Hulk": 200, "Ironman": 400}

adm\_psw = "password"

class Movie: # Class movie for movie related functions

def \_\_init\_\_(self, name=0, price=0):

self.name = name

self.price = price

def movie\_add(self):

finput = open("movies.txt", "r")

self.name = input("Enter the movie you want to add: ")

while True:

try:

self.price = int(input("Enter the ticket price: "))

break

except:

print("Invalid input")

if self.name not in finput.read():

finput.close()

fo = open("movies.txt", "a")

fo.write("\n"+self.name)

fo.close()

else:

print("\nMovie already exists")

def movie\_view(self):

print("Movies running now")

cnt = 1

for i in movie\_list.keys():

print(cnt, "\tMovie Name:", i, "\tPrice", movie\_list[i])

cnt = cnt+1

def movie\_search(self):

finp = open("movies.txt", "r")

if self.name in finp.read():

print(self.name, "is currently running\n")

finp.close()

return 1

else:

print("\nMovie not available\n")

class Customer(Movie): # Class customer inherits from class movie

adm\_val = 0

def \_\_init\_\_(self, c\_name=0):

self.c\_name = c\_name

self.ic = self.Rating()

@classmethod # This is a class method

def adm\_set(cls):

cls.adm\_val = 1

@classmethod # This is a class method

def adm\_unset(cls):

cls.adm\_val = 0

def book\_movie(self):

movie = input("Choose the movie you wish to watch: ")

while True:

try:

total\_ticket = int(input("Enter the total number of seats: "))

break

except:

print("Invalid input")

while True:

if(re.match(r'[2-9]', str(total\_ticket))):

break

else:

print("Invalid number of seats")

while True:

try:

total\_ticket = int(input("Re-enter: "))

break

except:

print("Invalid input")

if movie in movie\_list.keys():

price = movie\_list[movie]

cost = (price.\_\_mul\_\_(total\_ticket)) # using magic method mul

if(Customer.adm\_val == 1):

print("Congrats!!!You received admin discount")

self.c\_name = input("Enter your name")

cost = cost.\_\_sub\_\_(100) # using magic method sub

print("Movie booked succesfully")

print("Amount to be paid: ", cost, "\n")

dat = open("info.txt", "a")

dat.write("Customer name: "+self.c\_name+"\t")

dat.write("Movie booked: "+movie+"\t")

dat.write("Tickets booked: "+str(total\_ticket)+"\t")

dat.write("Total cost: "+str(cost)+"\n")

dat.close()

else:

print("\nMovie not available")

class Rating: # Class rating is inside class customer

def get\_rating(self):

print("To see the imdb rating")

print("Enter 1 for Superman")

print("Enter 2 for Avengers")

print("Enter 3 for Hulk")

print("Enter 4 for Ironman")

while True:

try:

opt = int(input())

break

except:

print("Invalid input")

if(opt == 1):

url\_imdb = "https://www.imdb.com/title/tt0078346/"

elif(opt == 2):

url\_imdb = "https://www.imdb.com/title/tt0848228/"

elif(opt == 3):

url\_imdb = "https://www.imdb.com/title/tt0286716/"

elif(opt == 4):

url\_imdb = "https://www.imdb.com/title/tt0371746/"

r = requests.get(url=url\_imdb)

soup = BeautifulSoup(r.text, 'html.parser')

title = soup.find('title')

print(title.string)

ratingValue = soup.find("span", {"itemprop": "ratingValue"})

print(ratingValue.string)

class Admin(Customer): # Class admin inherits from Customer

@staticmethod # This is a static method

def log\_in():

passwd = input("Enter the password for admin log-in")

if(passwd == adm\_psw):

return 1

else:

return 0

def view\_orders(self):

dat = open("info.txt", "r")

print(dat.read())

dat.close()

def menu(): # This acts as the home screen

while True:

print("Welcome to the home screen\n")

print("Enter 1 to add a movie")

print("Enter 2 to view all movies")

print("Enter 3 to search a movie")

print("Enter 4 to book tickets")

print("Enter 5 to view bookings")

print("Enter 6 to view movie ratings\n")

print("Enter any other keys to exit\n")

while True:

try:

choice = int(input())

break

except:

print("Invalid option")

if(choice == 1):

adm = Admin()

if(Admin.log\_in()):

adm = Movie()

adm.movie\_add()

else:

print("Wrong admin password")

elif(choice == 2):

mov = Movie()

mov.movie\_view()

elif(choice == 3):

movie = input("Enter the movie you want to search: ")

mov = Movie(movie)

mov.movie\_search()

elif(choice == 4):

print("Want to view movies as admin or customer")

opt = int(input(("Enter 1 for admin\nEnter 2 for customer")))

if(opt == 1):

adm = Admin()

if(Admin.log\_in()):

Customer.adm\_set()

adm.book\_movie()

Customer.adm\_unset()

elif(opt == 2):

person = input("Enter your name: ")

cus = Customer(person)

cus.book\_movie()

elif(choice == 5):

adm = Admin()

Admin.log\_in()

adm.view\_orders()

elif(choice == 6):

cus = Customer()

i = cus.ic

i.get\_rating()

else:

break

menu()

## **PEP8 Screenshot**:



Figure PEP8 for code with OOPS concept