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BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A Mini-Project Report

On

“MOVIE DATABASE SYSTEM”

A report submitted in partial fulfilment of the requirements for the

MINI PROJECT OF DATABASE MANAGEMENT SYSTEM LAB (18CSL58)

Submitted By

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Under the Guidance of

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Visvesvaraya Technological University

Belagavi, Karnataka 2021-2022

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CERTIFICATE

This is to certify that the DBMS MINI-PROJECT entitled title
“MOVIE DATABASE SYSTEM” has been successfully presented
by **CHITRIKI GANESH** bearing USN **3BR19CS040** a student of
Vth semester B.E for the partial fulfilment of the requirements for the
award of **Bachelor Degree in Computer Science and Engineering**
of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELGAVI during the academic year 2021-2022.

Signature of guide

Mr. Kiran Mudaraddi

Mr. Hari Krishna H

Signature of HOD

Dr. R.N. Kulkarni

ACKNOWLEDGEMENT

The satisfactions that accompany the successful completion of my mini project on “**MOVIE DATABASE SYSTEM**” would be incomplete without the mention of people who made it possible, whose noble gesture, affection, guidance, encouragement and support crowned my efforts with success. It is my privilege to express my gratitude and respect to all those who inspired me in the completion of my mini-project.

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NAME

USN

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3BR19CS040

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ABSTRACT

Movie Database System is a offline (for some Operations require Internet Connection) desktop application created for the purpose of viewing basic information about movies such as title, release year, language, budget, genre etc. And some more information about the actors, directors, production company involved in making a film . And it also gives other information such as movie ratings and so. It is designed as a one-stop destination for the user to access the movies that are available, In addition to these, Movie Database System application has a rich, user-friendly Graphical User Interface design developed using Python. The data, which is static for a particular movie (Eg. Title, Director and so on), is fetched from the APIs and stored into MySQL database using python MySQL connector module available in Python.

CHAPTER 1

INTRODUCTION

1.1 ABOUT THE PROJECT

This is a typical movie database management system which stores and manages the information related to the movies. Usually there are many ways available in the present world which satisfy the aforementioned data, however the user has to go through atleast 2-3 websites. And this is a one stop system where the users can view the information related to the movies (title, actors, directors, genre, language etc). This system has good UI which makes the user to feel handy while using it.

So storing, managing and retrieving the complex information related to the movies plays a major role in the system. And using a file to store such data would be a tedious job. Because of it's drawbacks. However there's some other way to do this and that is using a Database management system which is easier to use and has a wide range of advantages which ensures that the data stored is optimal and accurate to both user and programmer.

1.2 PROBLEM STATEMENT

To design and develop a Movie Database System project.

1.3 OBJECTIVES

1. Adding details about Movies, Actor, Director, Production Company, Rating of respective Movie and Cast.
2. To View details of Movies, Actors, Directors, Production Company, Rating of Movies and Cast.
3. Performing Update, Delete and Reset operations on the stored data.

CHAPTER 2

SYSTEM REQUIREMENTS

2.1 HARDWARE REQUIREMENTS

- Processor: i3 and Above
- Ram: 2GB and Above
- Hard Disk: 150GB and Above

2.2 SOFTWARE REQUIREMENTS

- Operating System: Windows 7 and Above
- Software: Visual Studio Code, Pycharm
- Programming Language: Python
- Front End: Python (Tkinter)
- Back End: Python
- Database: Mysql

2.3 FUNCTIONAL REQUIREMENTS

User Login: This is responsible for user to login or new registration or forgot password (if user forgets password).

Movies: This entity is responsible for taking the information of Movies, It includes Movie_id, Title, Release year, Language, Director_id, Budget, Genre and Company_id. And we can perform Add, Update, Delete and Reset operations.

Actors: This entity is responsible for taking the information of Actors such as their Actor_id, Name and Gender. And we can perform Add, Update, Delete and Reset operations.

Director: This entity is responsible for taking the information of Directors such as their Director_id, Name and Phone_no. And we can perform Add, Update, Delete and Reset operations.

Production Company: This entity is responsible for taking the information of Production Company, It includes Company_id, Name and Location. And we can perform Add, Update, Delete and Reset operations.

Ratings: This entity is responsible for taking the information of Ratings of Movies, It includes Movie_id, Movie Title and Rating. And we can perform Add, Update, Delete and Reset operations.

Cast: This is an auxiliary entity for the Movies entity (Casting Button). Herein there are three entries such as Movie Id, Actor Id and Role of the actor in that movie. This module also has a table to view the stored data.

2.4 NON-FUNCTIONAL REQUIREMENTS

Performance: The Application is built in such a way by taking all the necessary precautions and this as gone through rigorous testing in order to ensure the user a swift feel.

Availability: It will be available all the time because it is an offline application.

Usability: The GUI is made so responsive which would make the user to easily work with the software.

Robustness: The System has the ability to withstand or overcome adverse conditions or rigorous testing.

Maintainability: The Software is built so simple such that any further updates if required can be implemented easily.

CHAPTER 3

SYSTEM ARCHITECTURE DESCRIPTION

3.1 ER DIAGRAM

| ENTITIES | ATTRIBUTES |
|--------------------|---|
| Movies | <u>Mov_id</u> , Title, Release year, Language, <u>Dir_id</u> , Budget, Genre, <u>Company_id</u> |
| Actors | <u>Act_id</u> , Name, Gender |
| Director | <u>Dir_id</u> , Name, Phone_no |
| Production Company | <u>Company_id</u> , Name, Location |
| Ratings | <u>Mov_id</u> , Movie Title, Rating |
| Cast | <u>Mov_id</u> , <u>Act_id</u> , Role |

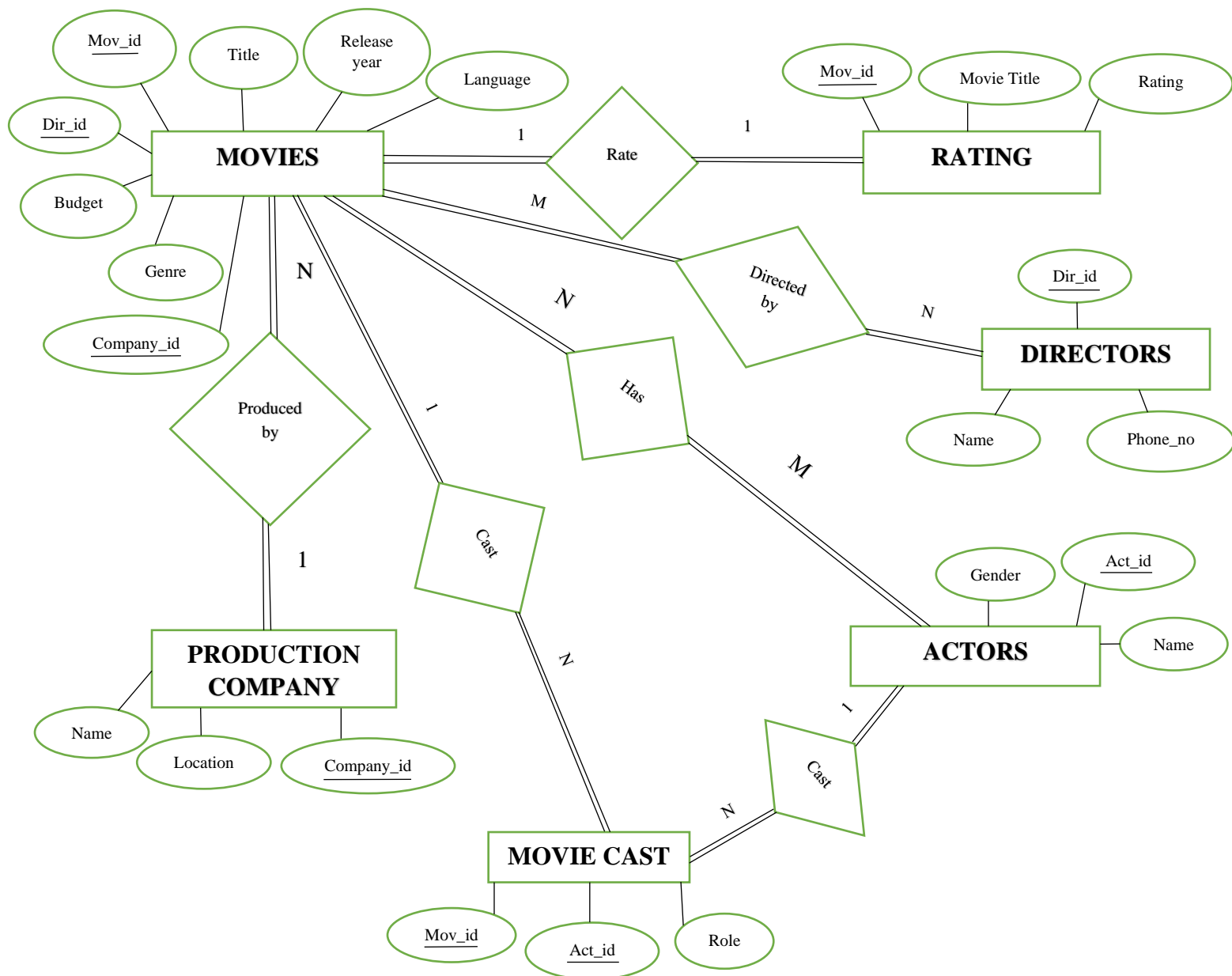


Fig no 3.1 : ER DIAGRAM

3.2 SCHEMA DIAGRAM

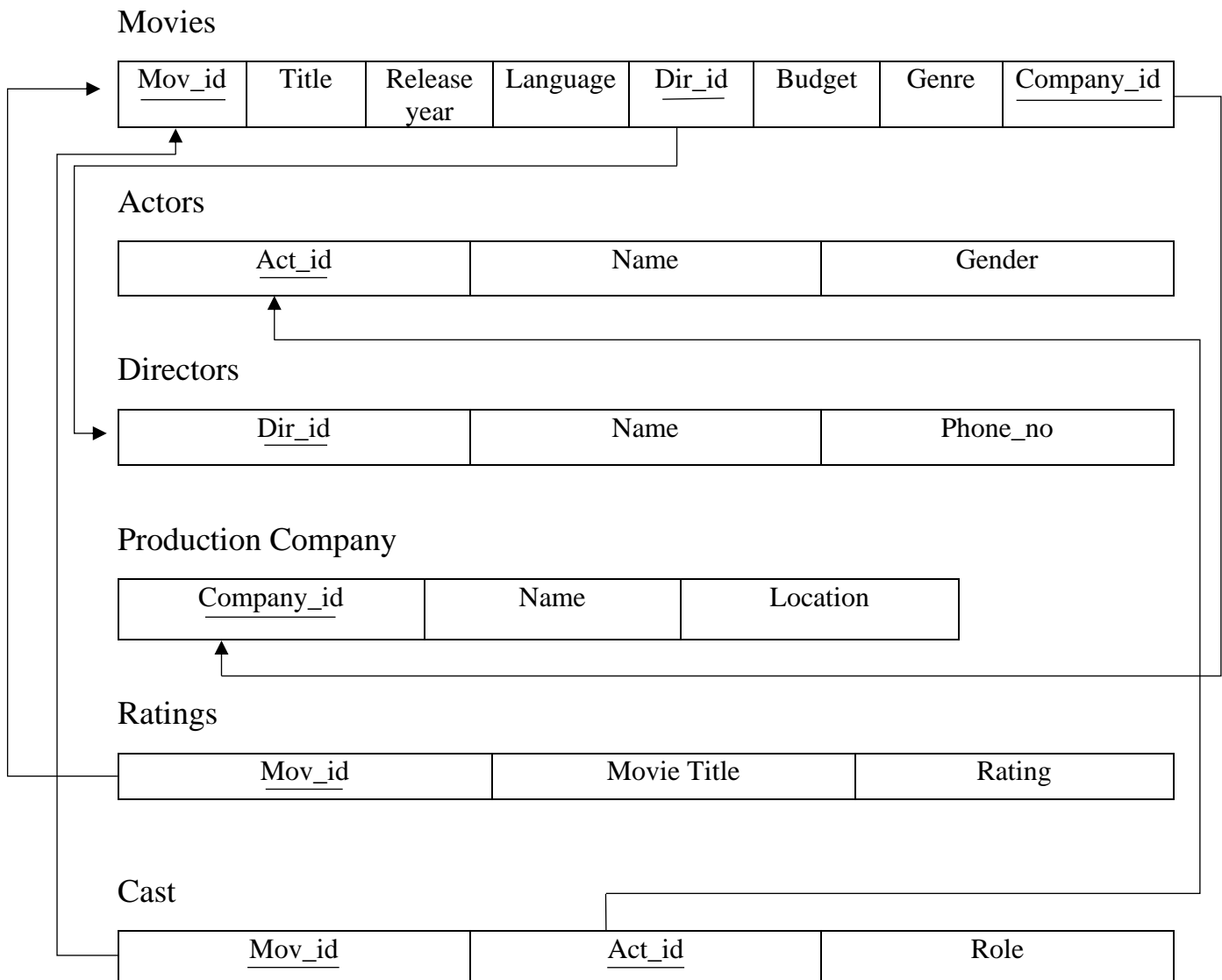


Fig no 3.2 : SCHEMA DIAGRAM

CHAPTER 4

IMPLEMENTATION

4.1 OVERVIEW OF MODULES / COMPONENTS

The proposed system has following modules

Login window: This module is the start of the application. It consists of two fields Username and Password by which the application validates verified users who can access the application's benefits. If the user enters a wrong username or the password, then the application warns the user by popping up a message saying you have entered a wrong username and password. Please try again by entering the correct username and password. And if ever the user doesn't have an account, he can register to the application by clicking the New Register button this would redirect the user to a New Register Window. And if the user has forgot the password, he/she can retrieve it by clicking the forgot password button this would redirect the user to a Forgot Password Window (Note: Herein the user needs to answer to the Security Question). Hence this module plays an important role in the application.

Main window: This is the window where the user can start working with the features of the application.

This module comprises six primary buttons namely

- Movies: Redirects the user to the movies window.
- Actors: Redirects the user to the Actors window.
- Directors: Redirects the user to the Directors window.
- Production Company: Redirects the user to the Production Company window.
- Rating: Redirects the user to the Ratings window.
- Cast: Redirects the user to the Cast window.

It also has two secondary buttons namely

- Log Out: This button takes the user back to the Login Window.
- About Us: Opens a window which has some more information developers and so on.

Movies: This module basically consists of a form type frame where there are some entries required for storing information about a movie. And there's a table where all the data that a

user stores will be shown. Here the user can add new movie, delete a movie, update and reset the information related to the movie. And there's a button 9labelled as casting upon clicking on this button the users can see the actors and their roles in selected movie.

Actors: This module basically consists of a form type frame where there are some entries required for storing information about an actor. And there's a table where all the data that a user stores will be shown. Here the user can add new actor, delete an actor, update and reset the information related to the actor.

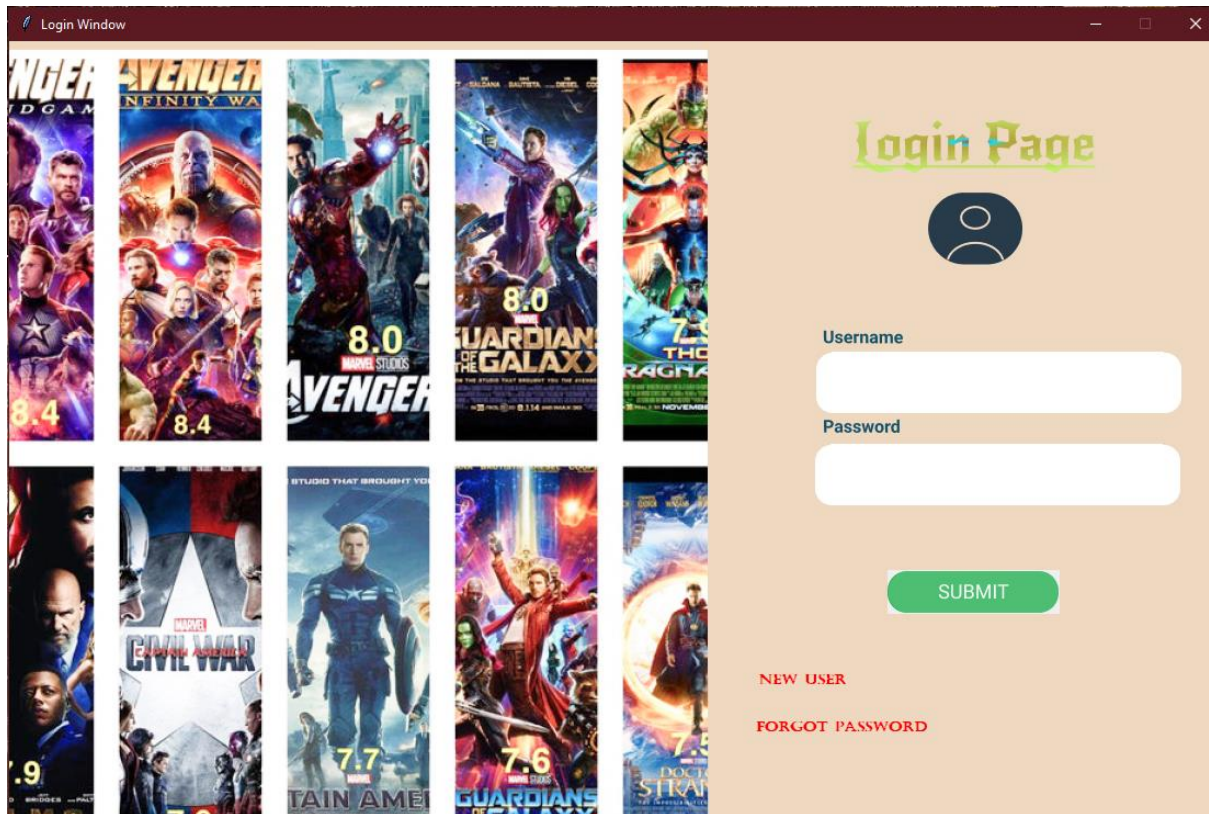
Directors: This module basically consists of a form type frame where there are some entries required for storing information about a director. And there's a table where all the data that a user stores will be shown. Here the user can add new director, delete a director, update and reset the information related to the director.

Production Company: This module basically consists of a form type frame where there are some entries required for storing information about a production company. And there's a table where all the data that a user stores will be shown. Here the user can add new production company, delete a production company, update and reset the information related to the production company.

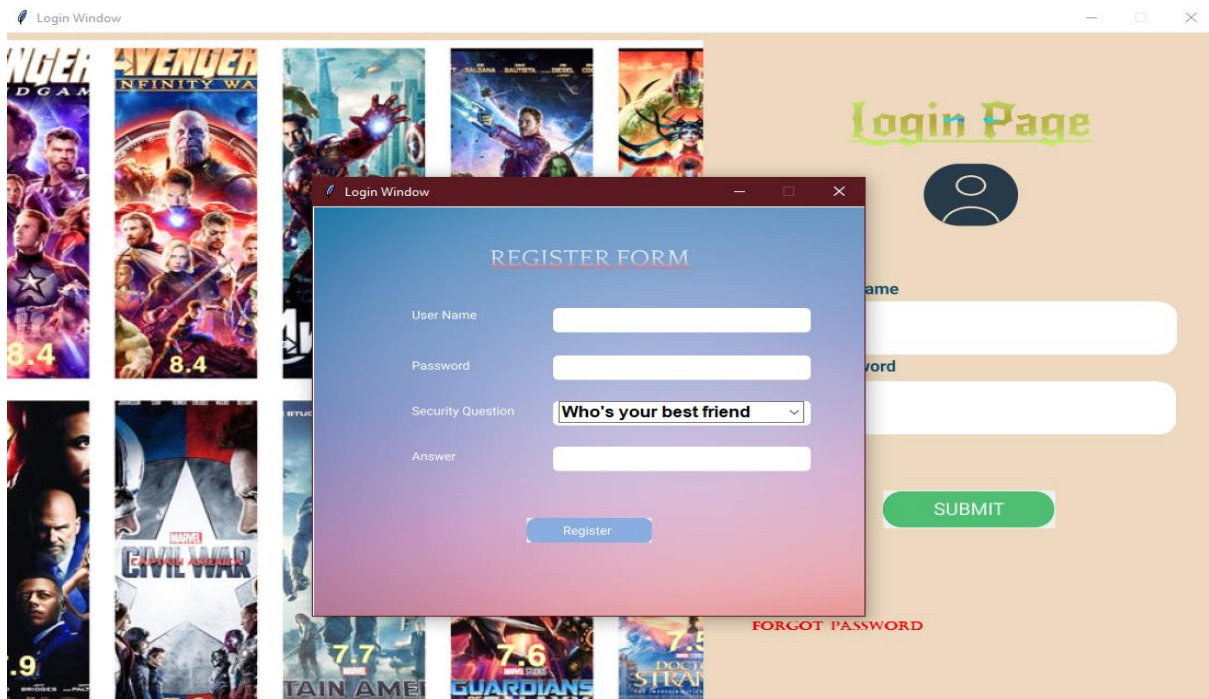
Ratings: This module basically consists of a form type frame where there are some entries required for storing information about a Ratings. And there's a table where all the data that a user stores will be shown. Here the user can add new Ratings, delete a Ratings, update and reset the information related to the Ratings of a movie.

Cast: This is an auxiliary module for the Movies module's (Casting Button). Herein there are three entries such as Movie Id, Actor Id and Role of the actor in that movie. This module also has a table to view the stored data.

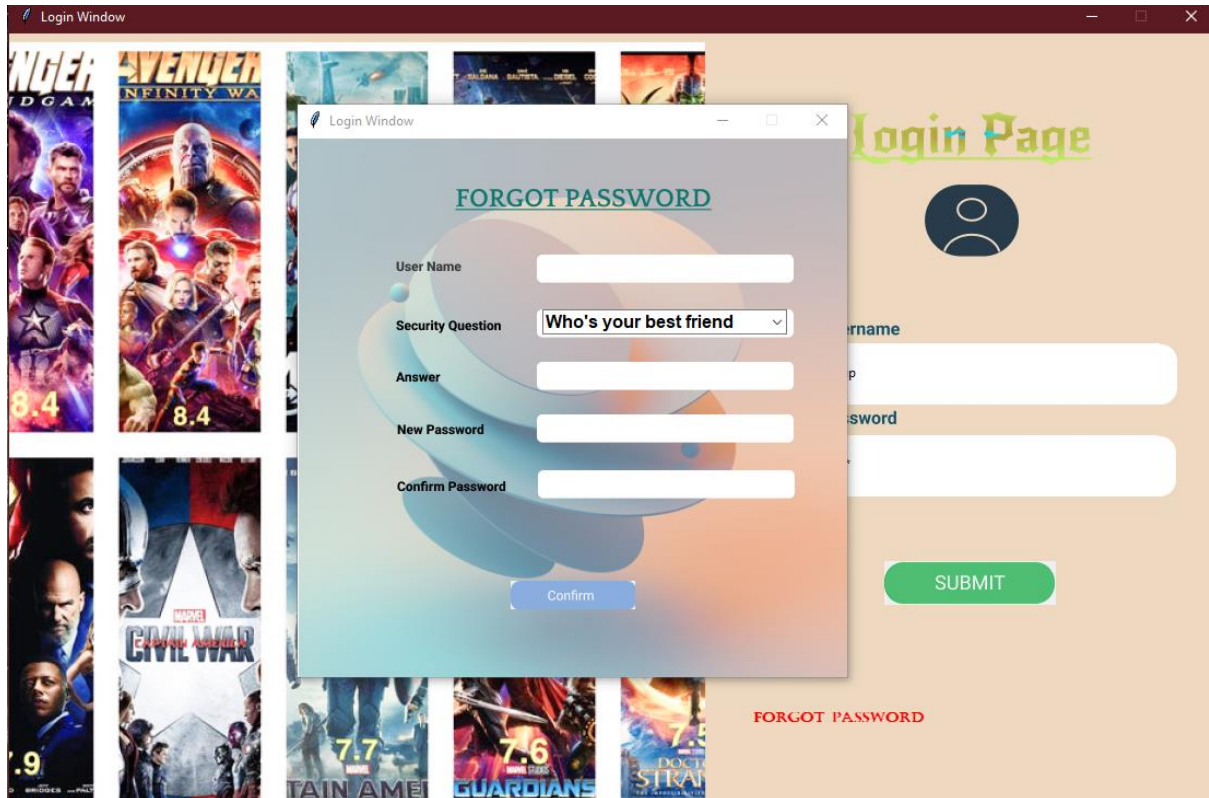
4.2 RESULTS



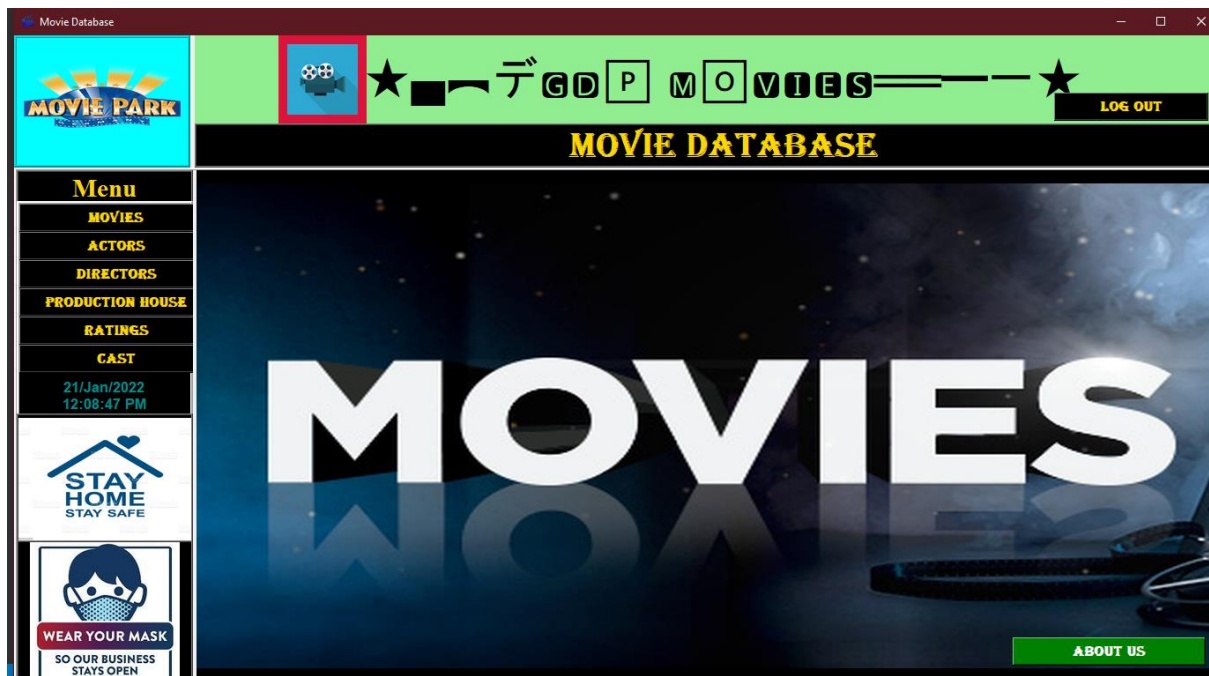
4.2.1 LOGIN WINDOW



4.2.2 NEW USER REGISTRATION



4.2.3 FORGOT PASSWORD WINDOW



4.2.4 MAIN WINDOW

Movie Database

Menu

- MOVIES
- ACTORS
- DIRECTORS
- PRODUCTION HOUSE
- RATINGS
- CAST

21/Jan/2022 12:16:53 PM

STAY HOME STAY SAFE

WEAR YOUR MASK SO OUR BUSINESS STAYS OPEN

Movie Information

MOVIE DETAILS

Movie Details

MOVIE ID: 8646

TITLE: KGF 1

RELEASE YEAR: 2019

LANGUAGE: Kannada

PRODUCTION HOUSE ID: 78

DIRECTOR: 827

BUDGET: 15000000

GENRE: Family

CASTING

View Details

Search By: Title

Show All

| Movie Id | Title | Release | Language | Director | Budget | Genre | Production_id |
|----------|-------------|---------|----------|----------|----------|--------|---------------|
| 4224 | RRR | 2022 | Telugu | 224 | 20000000 | Drama | 54 |
| 6252 | Baahubali 2 | 2020 | Telugu | 224 | 10000000 | Family | 54 |
| 7887 | Baahubali 1 | 2019 | Telugu | 224 | 15000000 | Family | 54 |
| 8646 | KGF 1 | 2019 | Kannada | 827 | 15000000 | Family | 78 |

ADD **Update** **Reset** **Delete**

4.2.5 MOVIE DETAILS

Movie Database

Menu

- MOVIES
- ACTORS
- DIRECTORS
- PRODUCTION HOUSE
- RATINGS
- CAST

21/Jan/2022 12:09:25 PM

STAY HOME STAY SAFE

WEAR YOUR MASK SO OUR BUSINESS STAYS OPEN

Actors Information

ACTOR DETAILS

Actor Details

Actor ID: 26264

Name: Vijay Devarakonda

GENDER: Male

About Actor

Deverakonda Vijay Sai (born 9 May 1989) is an Indian actor and film producer who predominantly works in Telugu cinema. He debuted in 2011 in Ravi Babu's romantic comedy Nuvvila, and gained recognition for his supporting role in Yevade Subra manyam (2015). Deverakonda played the lead role in the 2016 romantic comedy Pelli Choopulu. Deverakonda has established himself as a leading actor of Telugu cinema by starring in films such as Arjun Reddy (2017), Mahanati (2018), Geetha Govindam (2018), Taxiwaala (2018)

View Details

Search By: Act_name

show all

| Actor Id | Name | Gender |
|----------|--------------------------|--------|
| 20230 | N. T. Rama Rao Jr. | Male |
| 26264 | Vijay Devarakonda | Male |
| 39397 | Naveen Kumar Gowda(Yash) | Male |
| 55068 | Anushka Shetty | Female |
| 55129 | Rana Daggubati | Male |
| 66063 | Samantha Ruth Prabhu | Female |
| 74132 | Tabanraah Bhatia | Female |
| 99848 | Prabhas Raju | Male |

ADD **Update** **Reset** **Delete**

4.2.6 ACTOR DETAILS

The screenshot displays the 'DIRECTOR DETAILS' page. On the left is a sidebar with a 'Menu' containing links to MOVIES, ACTORS, DIRECTORS, PRODUCTION HOUSE, RATINGS, and CAST. Below the menu are a date/time stamp (21/Jan/2022 12:09:43 PM) and two COVID-19 related banners: 'STAY HOME STAY SAFE' and 'WEAR YOUR MASK SO OUR BUSINESS STAYS OPEN'. The main header features a 'MOVIE PARK' logo, a 'TDP MOVIES' banner, and a 'LOG OUT' button. The 'Directors Information' window is active, showing 'Director Details' for Director ID 224, Name 'SS Rajamouli', and Phone No '1234567890'. An 'About Director' section provides a biography of Koduri Srisaia Sri Rajamouli. A 'View Details' table lists directors with columns for Director id, Name, and Phone. At the bottom are 'ADD', 'Update', 'Reset', and 'Delete' buttons.

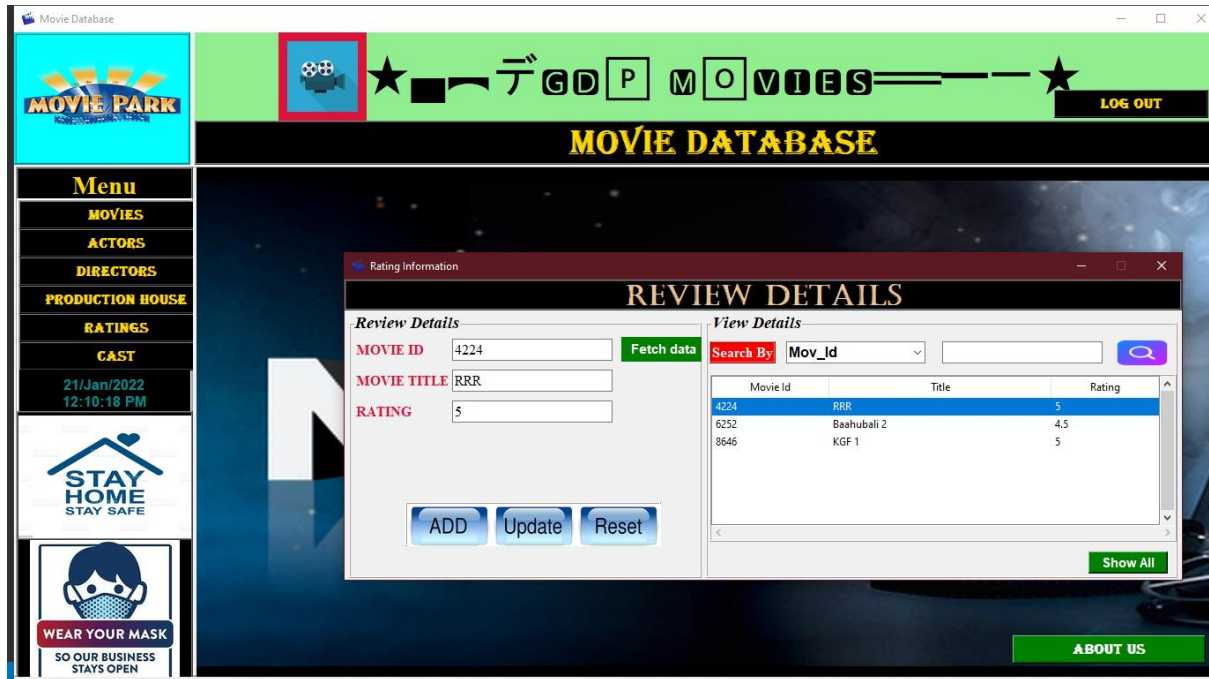
| Director id | Name | Phone |
|-------------|-------------------|------------|
| 224 | SS Rajamouli | 1234567890 |
| 466 | Boyapati Srinivas | 1432567 |
| 827 | PrashanthNeel | 53522614 |

4.2.7 DIRECTOR DETAILS

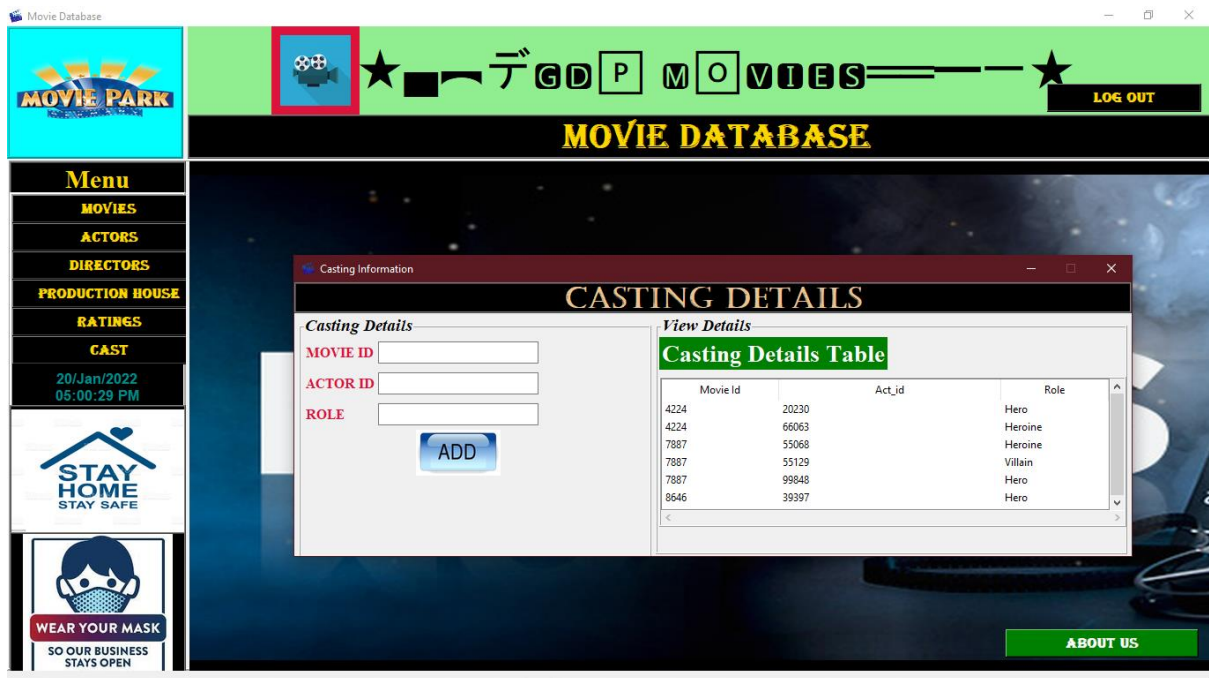
The screenshot displays the 'PRODUCTION COMPANY DETAILS' page. The sidebar and main header are identical to the previous screenshot. The 'Production company Information' window is active, showing 'Company Details' for Company ID 78, Name 'Hombale Films', Address 'Bengaluru', and Total Investment '15000000'. An 'About Company' section provides a brief description of Hombale Films. A 'View Details' table lists production companies with columns for Company id, Company Name, Address, and Investment. At the bottom are 'ADD', 'Update', 'Reset', and 'Delete' buttons.

| Company id | Company Name | Address | Investment |
|------------|------------------|-----------|------------|
| 54 | Arka Media Works | Hyderabad | 70000000 |
| 78 | Hombale Films | Bengaluru | 15000000 |

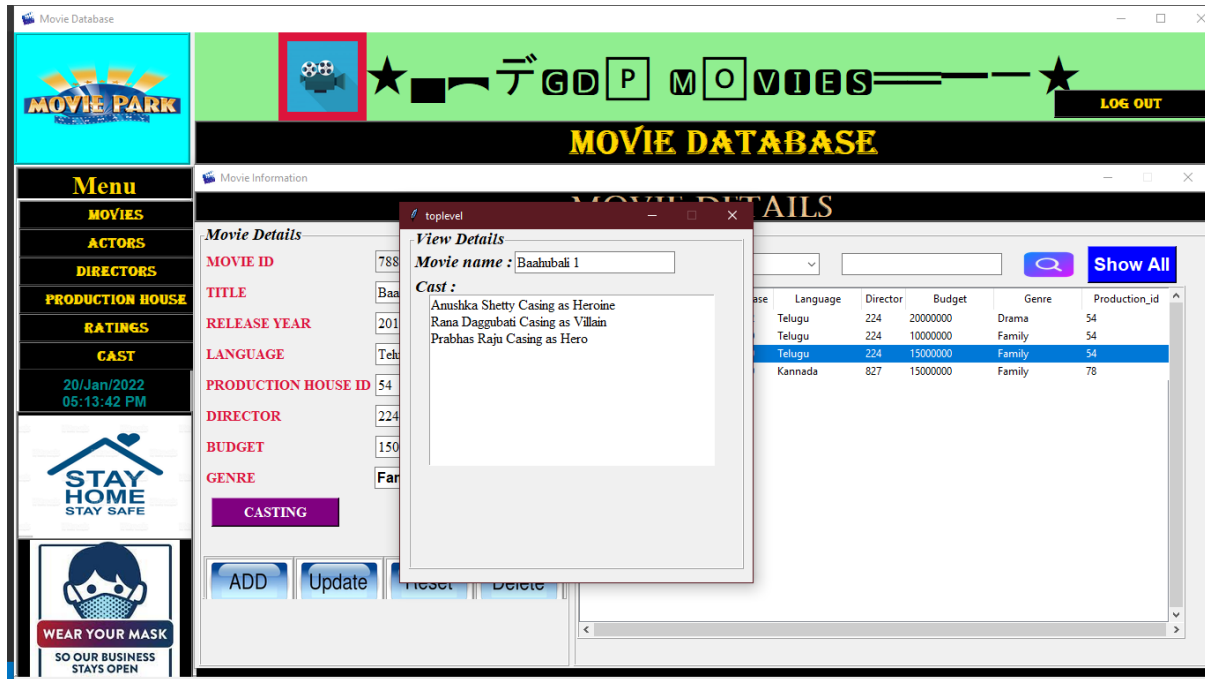
4.2.8 PRODUCTION COMPANY DETAILS



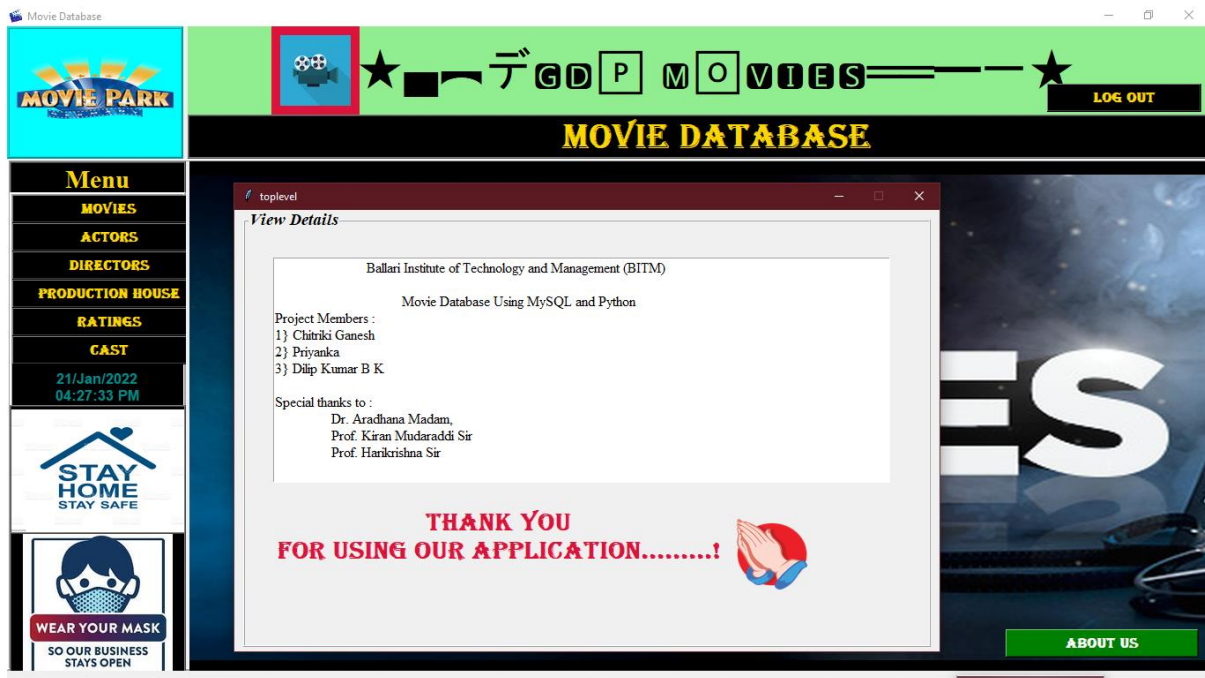
4.2.9 RATING DETAILS



4.2.10 CASTING DETAILS 1



4.2.11 CASTING DETAILS 2



4.2.12 ABOUT US WINDOW

CHAPTER 5

CONCLUSION

It is concluded that the application works well and satisfy the end users. The application is tested very well and errors are properly debugged. This system is user friendly so everyone can use easily. Proper documentation is provided. The end user can easily understand how the whole system is implemented by going through the documentation. The system is tested, implemented and the performance is found to be satisfactory. All necessary output is generated. Thus, the project is completed successfully. Further enhancements can be made to the application, so that the application functions very attractive and useful manner than the present one.

CHAPTER 6

REFERENCES

1. For designing of GUI (Graphical User Interface)
 - <https://www.geeksforgeeks.org/python-gui-tkinter/>
 - <https://www.figma.com/>
2. For SQL (Structured Query Language) <https://www.geeksforgeeks.org/sql-tutorial/>