



# Movie Ticketing System

Mid-Term Project Report

**PROGRAMMING IN PYTHON [B]**

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## Project Overview

This project “Movie Ticketing System” is a desktop-based Graphical User Interface (GUI) Application. This application will help people to buy tickets of their choice from a renowned cineplex in Bangladesh. It will help people to manage their information and get all the updates of new movies which are coming to the cinema hall. The graphical user interface makes the interaction with the user more interesting, and the GUI has been kept very simple. It is a user-friendly application as a result everyone can use it. It has a good security system to ensure the safety of people’s money and a tracker by which people can keep track of tickets which they are buying. Lastly, it can be said that although this is a simple system it can be made more complex by expanding each of its features.

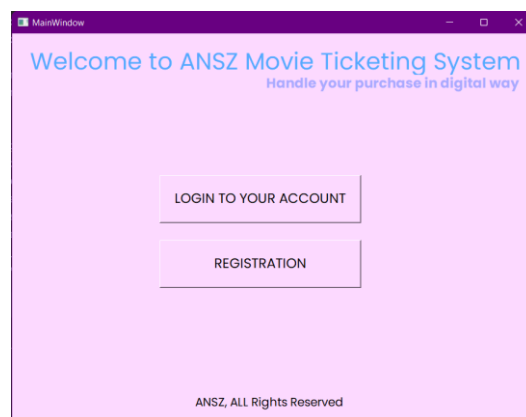
## Solution Design

Nowadays, it is very hard to get hold of a popular movie ticket as they get sold very early in the cinema hall counters. Not only that, sometimes there are huge lines for just one ticket. As a result, sometimes their accident happens. This application will resolve this issue as it will make everything online and digital. There will be no physical copies of tickets that will be handed out for a movie. With this application, a user can buy movie tickets, choose their preferred time slots and date. They can also get a pdf copy of their tickets which they can print afterward if they want. This application will make this ticket buying thing more dynamic and hassle-free.

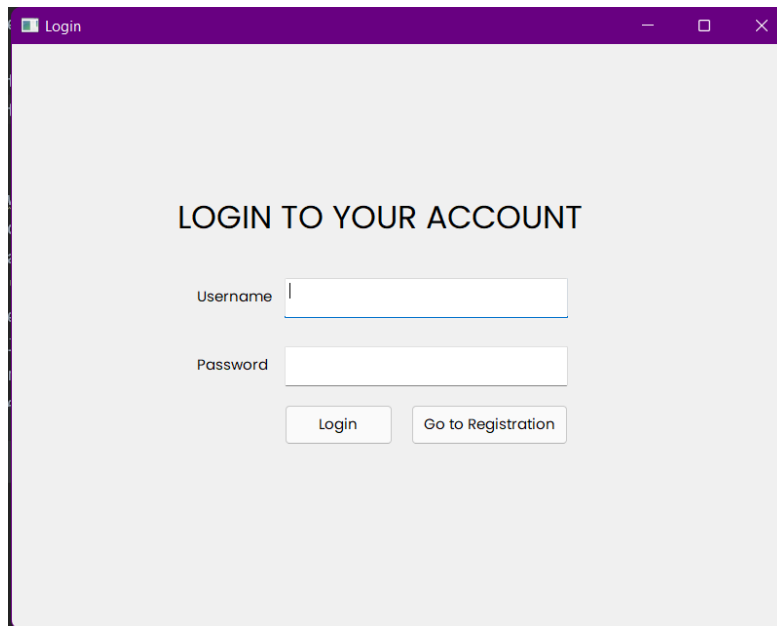
## Implementation

This system has been implemented by python programming language and one of its Graphical User Interface libraries named PyQt5. There has also another library been used for getting the pdf copies which’s name is FPDF. Below the screenshots are attached from the application:

### HOMEPAGE



## LOGIN WINDOW

A screenshot of a web application window titled "Login". The window has a purple title bar with standard minimize, maximize, and close buttons. The main content area is light gray and contains the heading "LOGIN TO YOUR ACCOUNT" in bold. Below the heading are two input fields: "Username" and "Password". The "Username" field has a cursor at the end of the text. Below these fields are two buttons: "Login" and "Go to Registration".

Login

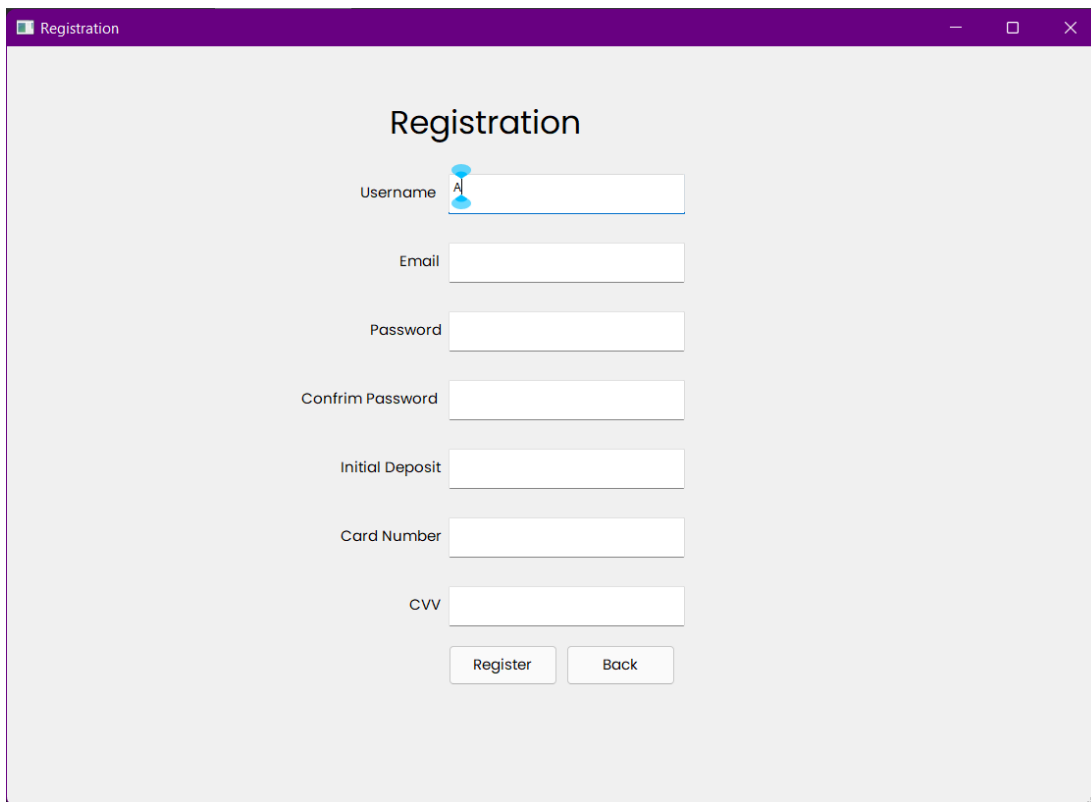
LOGIN TO YOUR ACCOUNT

Username

Password

Login Go to Registration

## REGISTRATION

A screenshot of a web application window titled "Registration". The window has a purple title bar with standard minimize, maximize, and close buttons. The main content area is light gray and contains the heading "Registration" in bold. Below the heading are seven input fields: "Username", "Email", "Password", "Confrim Password", "Initial Deposit", "Card Number", and "CVV". The "Username" field has a cursor at the end of the text. Below these fields are two buttons: "Register" and "Back".

Registration

Username

Email

Password

Confrim Password

Initial Deposit

Card Number

CVV

Register Back

## ADMIN DASHBOARD

Admin Dashboard

ADMIN DASHBOARD

Movie Name

Genre

Year

Price in Taka

Add Movie

Update

Log out

Select Movie

Delete Movie

User List

	Username	Email	Balance
1	nabilrt	nabil@aiub.com	19200
2	arpita_datta	arpita@aiub.edu	11000
3	nafinur	nafinur@aiub.edu	5000
4			
5			
6			
7			

## USER DASHBOARD

User Dashboard

ANSZ MOVIE TICKETING SYSTEM

USER DASHBOARD

Balance : 11000

Ticket Buying Section

Choose Movie

Genre

Year

Price

Timings

12 - 3 PM

Date

01-Jan-00

Buy Ticket

Log out

Purchase History

	Username	Movie Name	Genre	Year	Date	Time
1	arpita_datta	Batman	Action	2022	2022-03-12	6 - 9 PM
2	arpita_datta	Batman	Action	2022	2000-01-01	6 - 9 PM
3	arpita_datta	Batman	Action	2022	2000-01-01	12 - 3 PM
4	arpita_datta	Batman	Action	2022	2000-01-01	12 - 3 PM
5	arpita_datta	Batman	Action	2022	2000-01-01	6 - 9 PM
6	arpita_datta	Batman	Action	2022	2000-01-01	3 - 6 PM
7						
8						
9						
10						
11						
12						
13						

My Profile

## USER PROFILE

User Profile

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□

×

User Management

**Edit Details**

Email

arpita@aiub.edu

Password

12345

Update

**Add Balance**

Card Number

CVV

Amount

Recharge

\*\* - Click the X sign to close this window

## PDF Copy of Movie Ticket

### ANSZ Movie Ticketing System

Purchased By : nabilrt
Movie Name : Batman
Genre : Action
Year : 2022
Date of Show : 2022-03-12
Timing : 3 - 6 PM
Price of Ticket : 800

Thanks for trusting us

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## Project Outcome

This project has been designed for the cinema halls mainly. If this application is used by most of the cineplex and cinema halls, the long hassle of people standing in front of the ticket counter will reduce and it will lessen the chance of any abnormal activities happening. It will benefit both the user base and the owner base. This project enhances our knowledge of the python programming language also in the graphical user interface department. It will encourage us more to develop GUI-based applications rather than solely depending on console-based applications. Overall, it can be said that this project outcome has been benefiting both the developer and the users who will use this application.

## Project Report

This section will mainly discuss the advantage, disadvantages, and future improvements. As it has been discussed throughout the report there are several advantages of this application such as account management, ticket buying, getting a digital copy, tracking the history, and many others. But there are some limitations of this application as well. First one, the back button on the registration page is not functional as it throws an error for some unknown reason. The second one, the logout button in the user dashboard also does not function as a result user must close the application and re-login into another account. Other than these two all the functionalities are working properly. There can be plenty of future improvements to this application as it is a simple one. The UI can be more refurbished. The number of tickets available feature can be implemented. The money-adding system can be improved through OTP. More commenting can be added to understand the application's code better. Overall, this project has plenty of advantages but as it is known nothing is perfect, there are some limitations too and some future improvements. If this application gets expanded more one day the movie ticketing system will only exist digitally rather than going to the counters.