

Computer Science Project

Cinema Ticket Booking Application (C++)

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Introduction

RAP CINEMAS is a fictional theatre application developed in C++ for booking cinema tickets for three different languages. A new user is required to register for the first time and login with the system to book tickets of his/her own choice. A simulation of the theatre hall will be provided for users to choose their seats. A bill will be displayed for final payment and confirmation. The tickets will then be successfully booked. Users are also provided with various other features which will be discussed below.

Features of Application

1. Register/Login:

- A new user is requested to register a new profile by giving a suitable Username and Password.
- An already existing user can login if they already have registered themselves.

2. Main Screen:

- Once a user has logged in, he/she can do certain operations which are available on the screen. For help, they can press the 'HELP' button for assistance.

3. Book / Cancel Tickets:

- The user can book tickets by clicking the 'Book Tickets' button. This section consists of 9 movies which are divided into 3 languages consisting of 3 movies each.
- The user can book a show for the next 3 days of which the first date is the system date. The user can select any movie and a simulation of the theatre hall will be provided.
- Similarly, if the user wants to cancel the tickets, they can do it by clicking the 'Cancel Tickets' button and do the cancelation.

4. Change Account Details / Deleting Account:

- The user can change account details and delete account by clicking the respective buttons on the screen.
- These operations can be done only if legal account details are given for authorization.

5. Ticket Details:

- Users can check their latest tickets they have booked.
- Movie name, timing and date will be displayed.

6. Admin Page:

- This page is for the admin of the theatre. Only the admin can access this page. The password and username is known only to him.
- Page will be displayed only after the credentials of the admin are authorized by the system. It is available to update movies.

Concepts Used

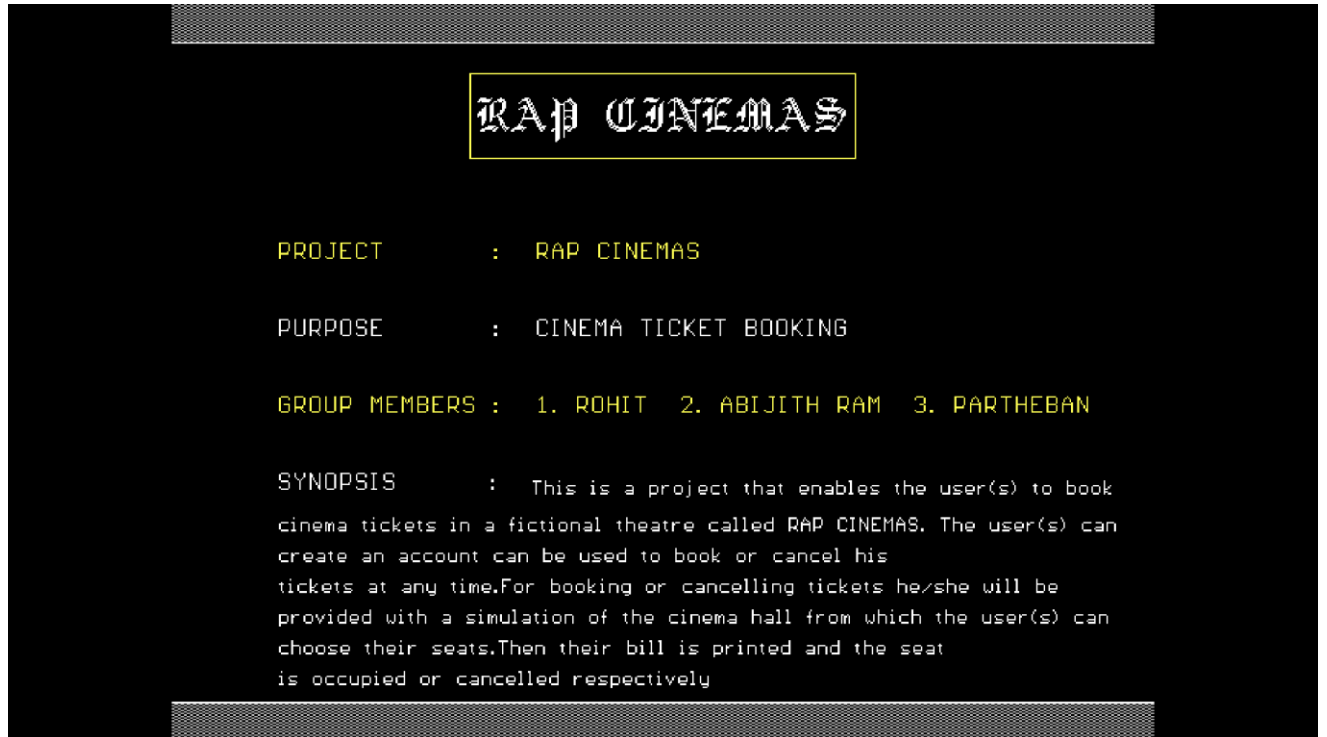
- Structures
- Pointers
- Polymorphism (Function Overloading)
- Graphics
- Binary Files:
 - Usern.dat: File to store usernames
 - Userp.dat: File to store passwords
 - Nusers.dat: File to store count of users
 - Date.dat: Movie date (x3 files)
 - Movie.dat: Movie names

Note

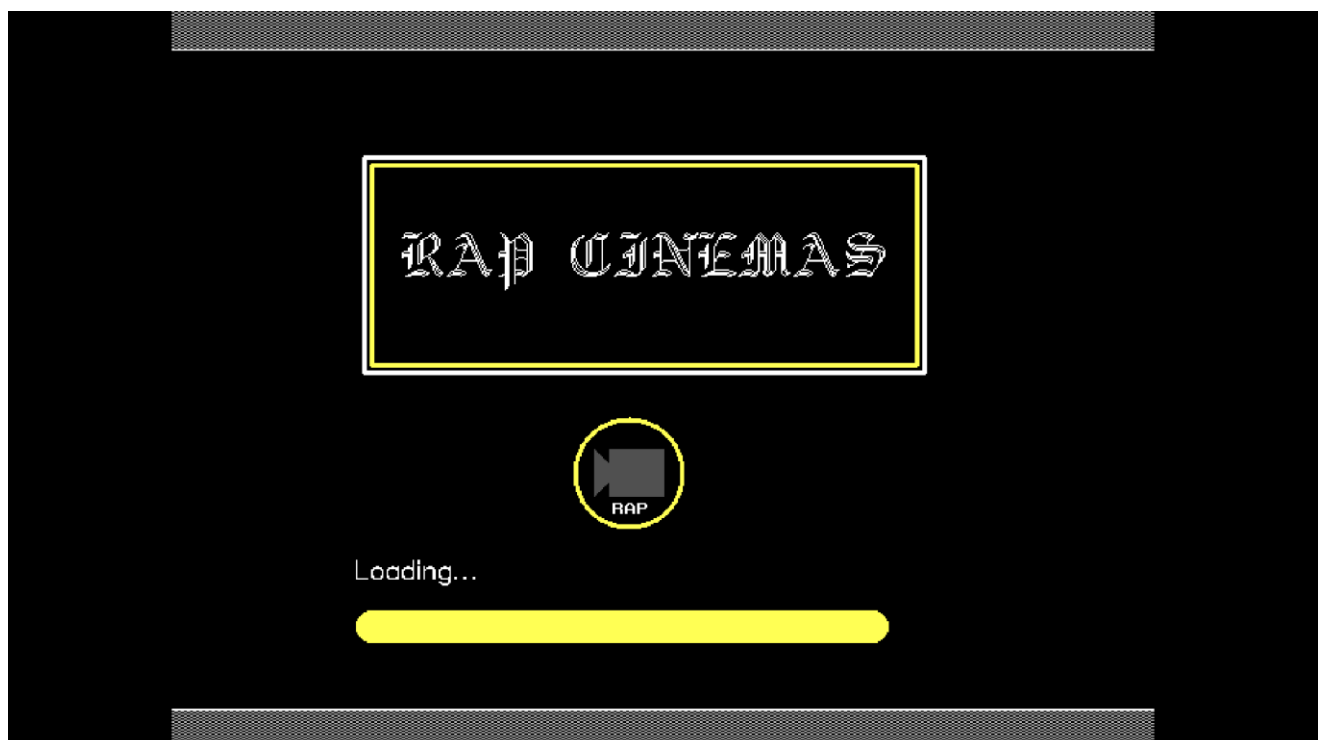
Users are required to take note that the source code only works in Turbo C++ 1.0 version. This is because Turbo C++ IDE has all the required header files installed during installation process that are required for successful compilation of this application.

Images

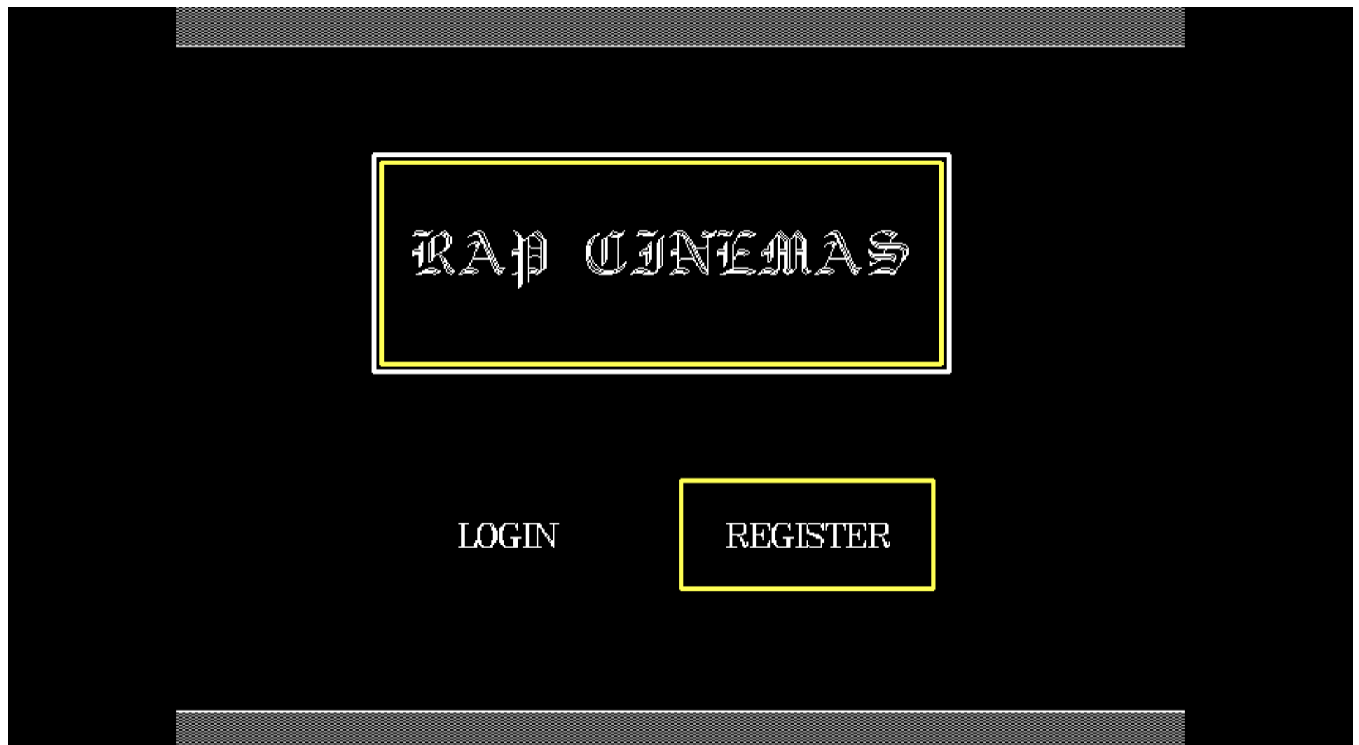
INTRODUCTION:



LOADING SCREEN:



LOGIN/REGISTER SCREEN:

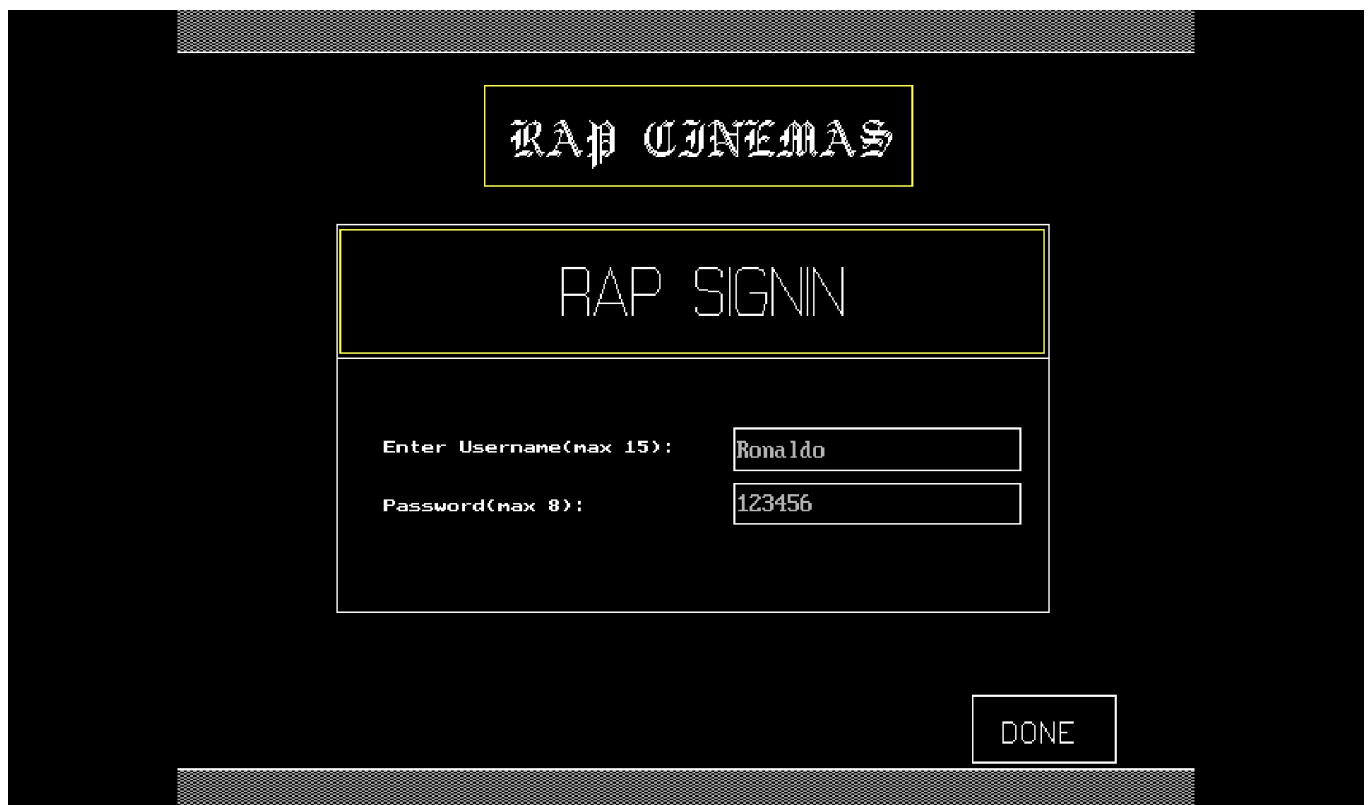


The image shows a login/register screen for 'RAP CINEMAS'. The title 'RAP CINEMAS' is displayed in a stylized, gothic font within a yellow-bordered box. Below the title, there are two buttons: 'LOGIN' and 'REGISTER'. The 'REGISTER' button is highlighted with a yellow border. The background is black with a grey textured bar at the top and bottom.

RAP CINEMAS

LOGIN REGISTER

REGISTER SCREEN:



The image shows a register screen for 'RAP CINEMAS'. The title 'RAP CINEMAS' is displayed in a stylized, gothic font within a yellow-bordered box. Below the title, there is a yellow-bordered box containing the text 'RAP SIGNIN'. Underneath this, there are two input fields: 'Enter Username(max 15):' with the value 'Ronaldo' and 'Password(max 8):' with the value '123456'. At the bottom right, there is a 'DONE' button. The background is black with a grey textured bar at the top and bottom.

RAP CINEMAS

RAP SIGNIN

Enter Username(max 15): Ronaldo

Password(max 8): 123456

DONE

LOGIN SCREEN:



The login screen features a dark background with a textured grey header and footer. At the top center, the text "RAP CINEMAS" is displayed in a stylized, gothic font within a yellow-bordered box. Below this, the text "RAP LOGIN" is centered in a simple, outlined font. The login form consists of two input fields: "Enter Username:" with the value "Ronaldo" and "Password:" with the value "123456". A "LOGIN" button is positioned at the bottom right of the form area.

RAP CINEMAS

RAP LOGIN

Enter Username: Ronaldo

Password: 123456

LOGIN

MAIN SCREEN:



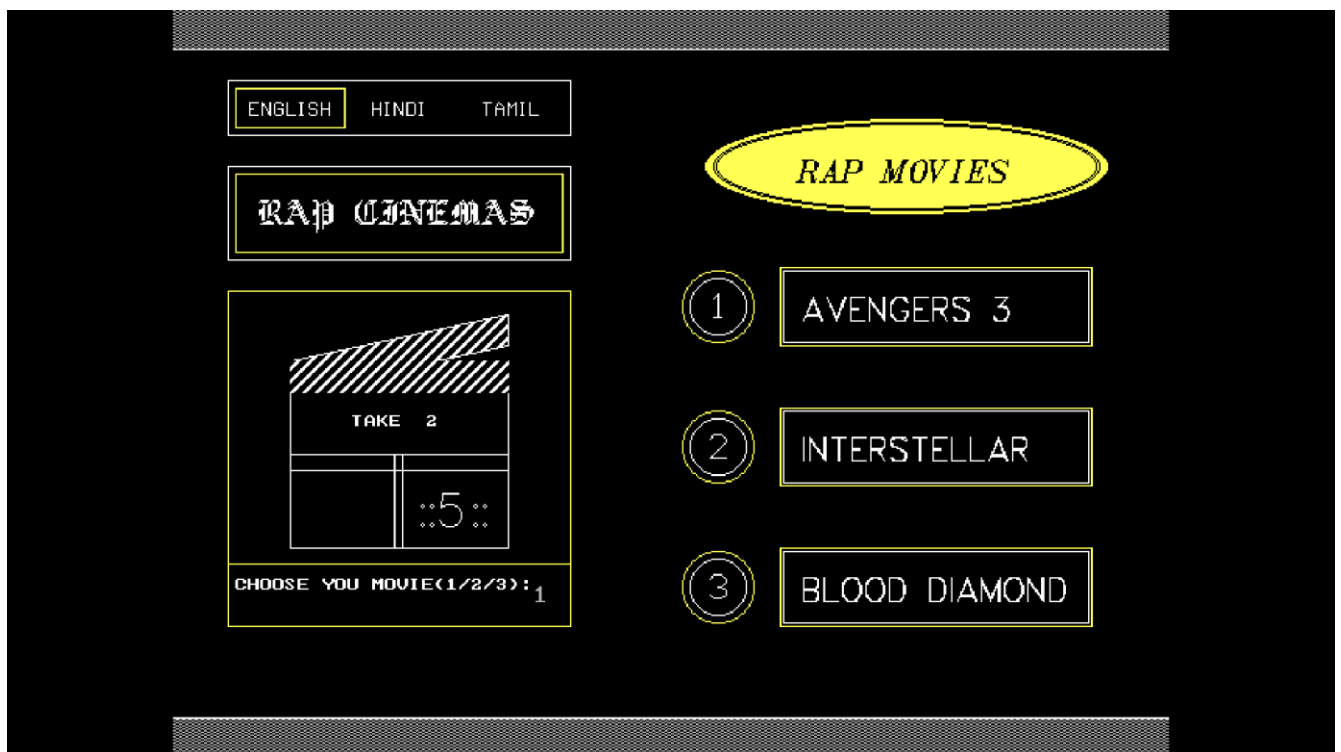
The main screen has a dark background with a textured grey header and footer. At the top, a navigation bar contains the links "PROFILE", "BOOKINGS", "LOGOUT", and "HELP". In the center, the text "RAP CINEMAS" is displayed in the same stylized font as the login screen, enclosed in a yellow-bordered box. Below this, there are three buttons: "BOOK YOUR TICKET" (highlighted with a yellow border), "CANCEL YOUR TICKET", and "EXIT".

PROFILE BOOKINGS LOGOUT HELP

RAP CINEMAS

BOOK YOUR TICKET CANCEL YOUR TICKET EXIT

BOOKING SCREEN:



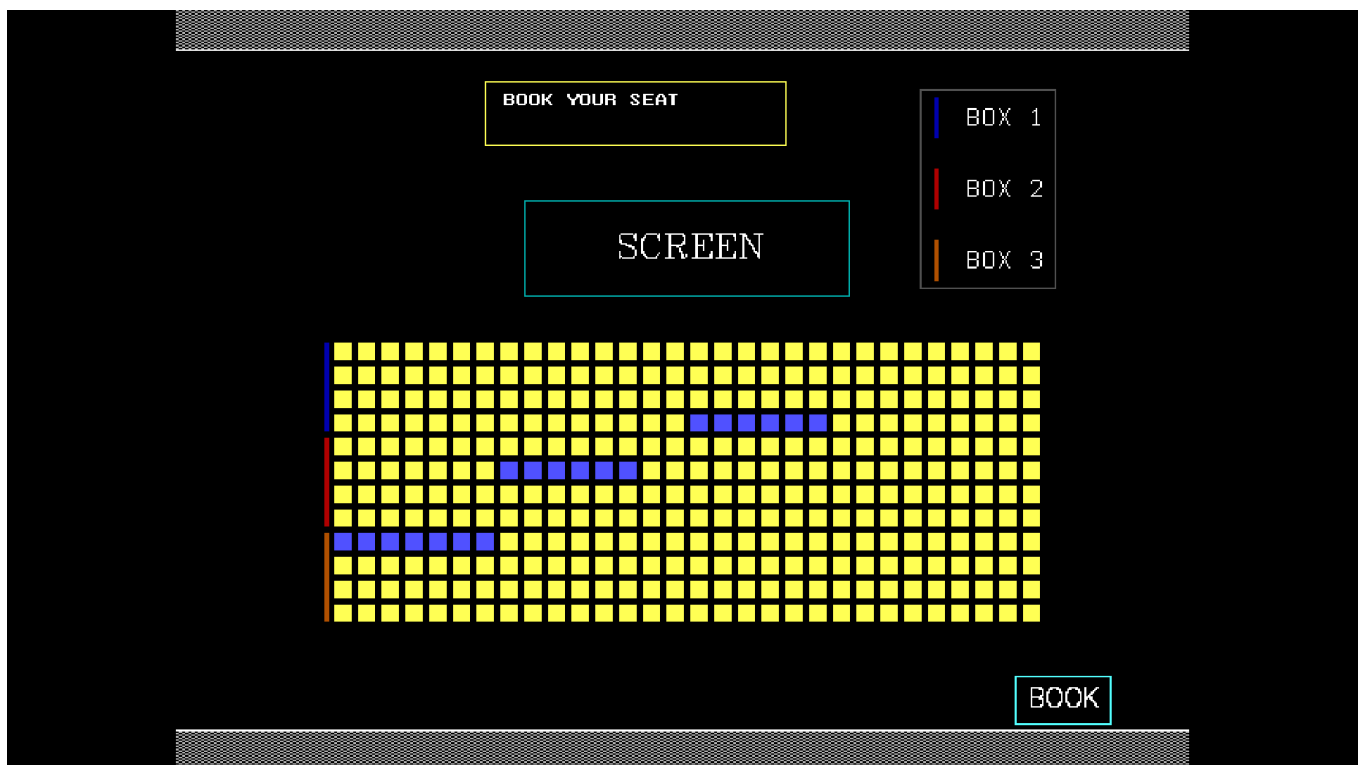
DATE SELECTION:



TIMING SELECTION:



THEATRE HALL SIMULATION-SEAT SELECTION:



TICKET BILL:

RAP CINEMAS

BILL:

MOVIE: AVENGERS 3 Nov29 (N)

BOX	TICKETS BOOKED	C/A	AMOUNT
1	6	CHILD 3 ADULT 3	RS. 510
2	6	CHILD 4 ADULT 2	RS. 560
3	7	CHILD 0 ADULT 7	RS. 910

GST:10% OTHER:5%

BILL AMOUNT:RS 2277

CONFIRM BOOKING

RAP PRICES

BOX	CHILD	ADULT
BOX 1	Rs.80	Rs.90
BOX 2	Rs.90	Rs.100
BOX 3	Rs.110	Rs.130

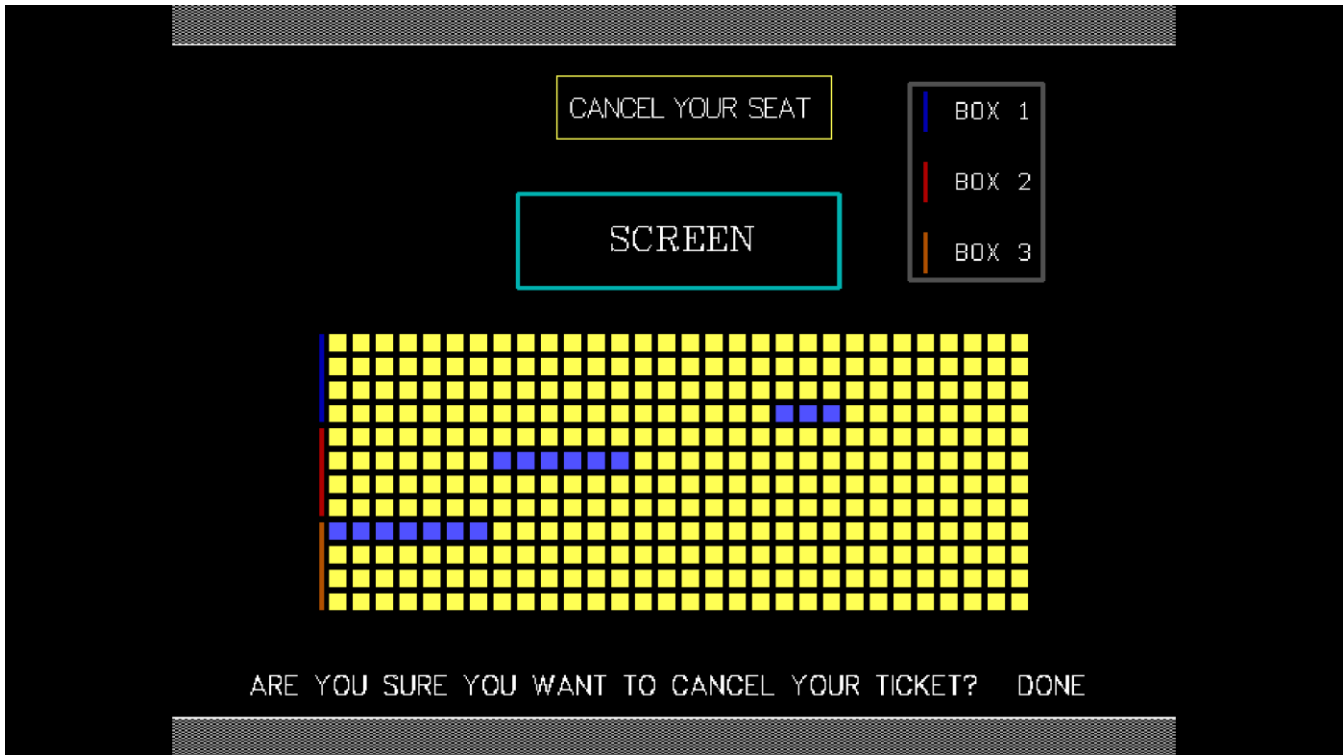
CONFIRMATION SCREEN:

RAP CINEMAS

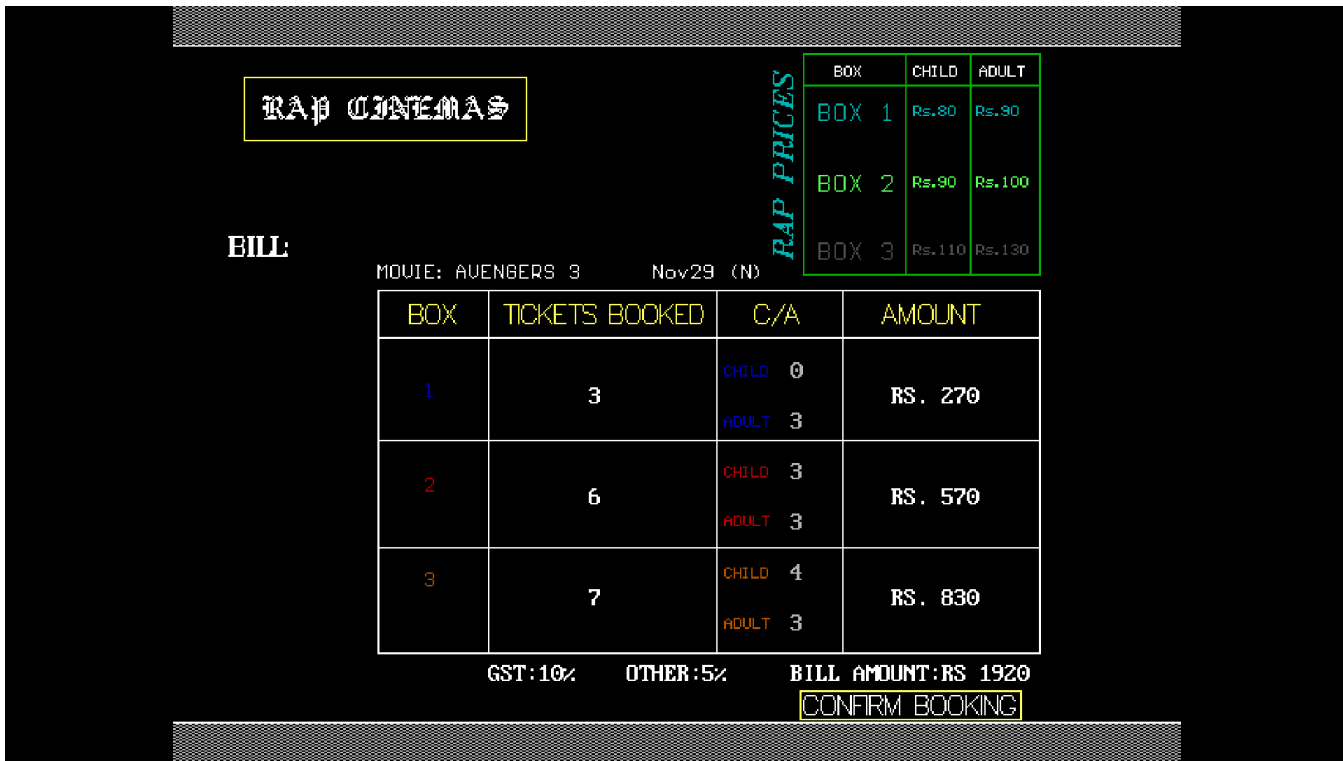
CONGRATULATIONS! YOUR BOOKING HAS BEEN CONFIRMED

BACK TO MAIN MENU

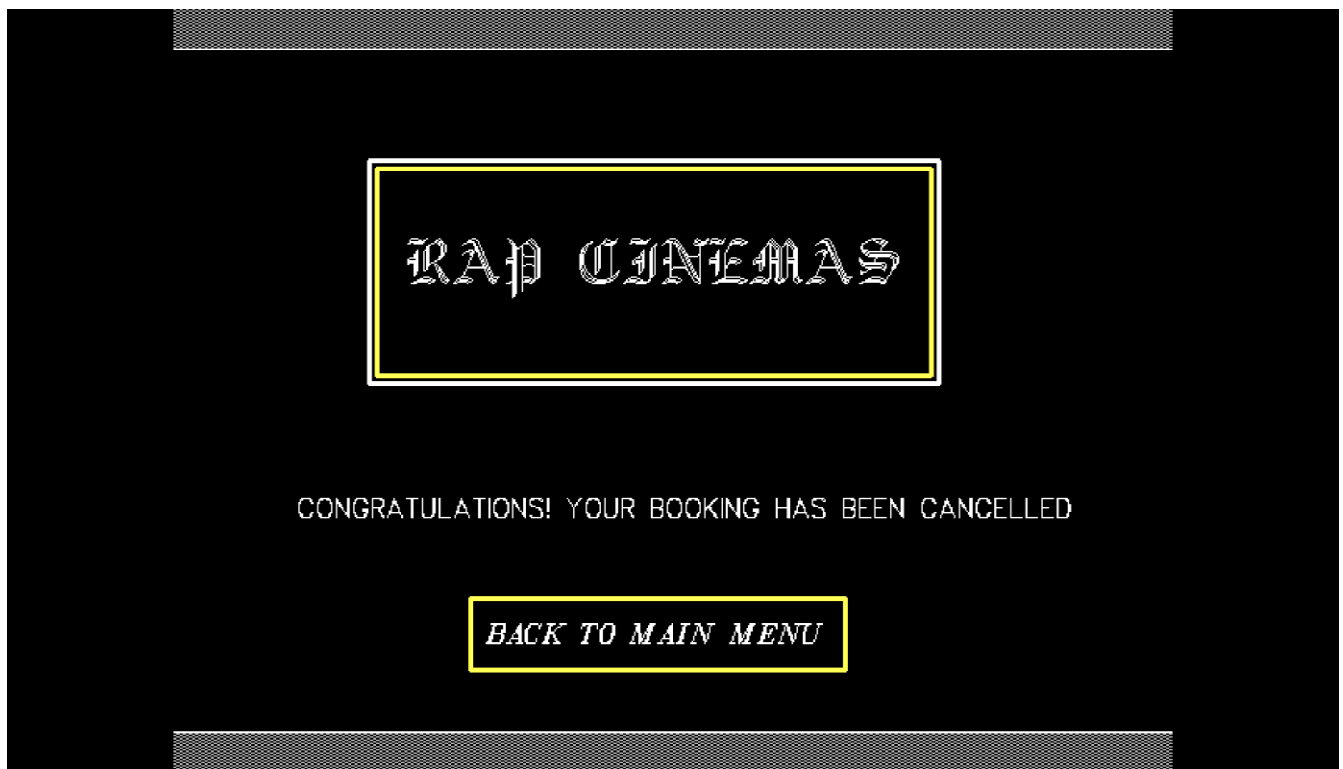
CANCELLING TICKET:



CANCELLATION BILL:



CANCELLATION SCREEN:



HELP SCREEN:



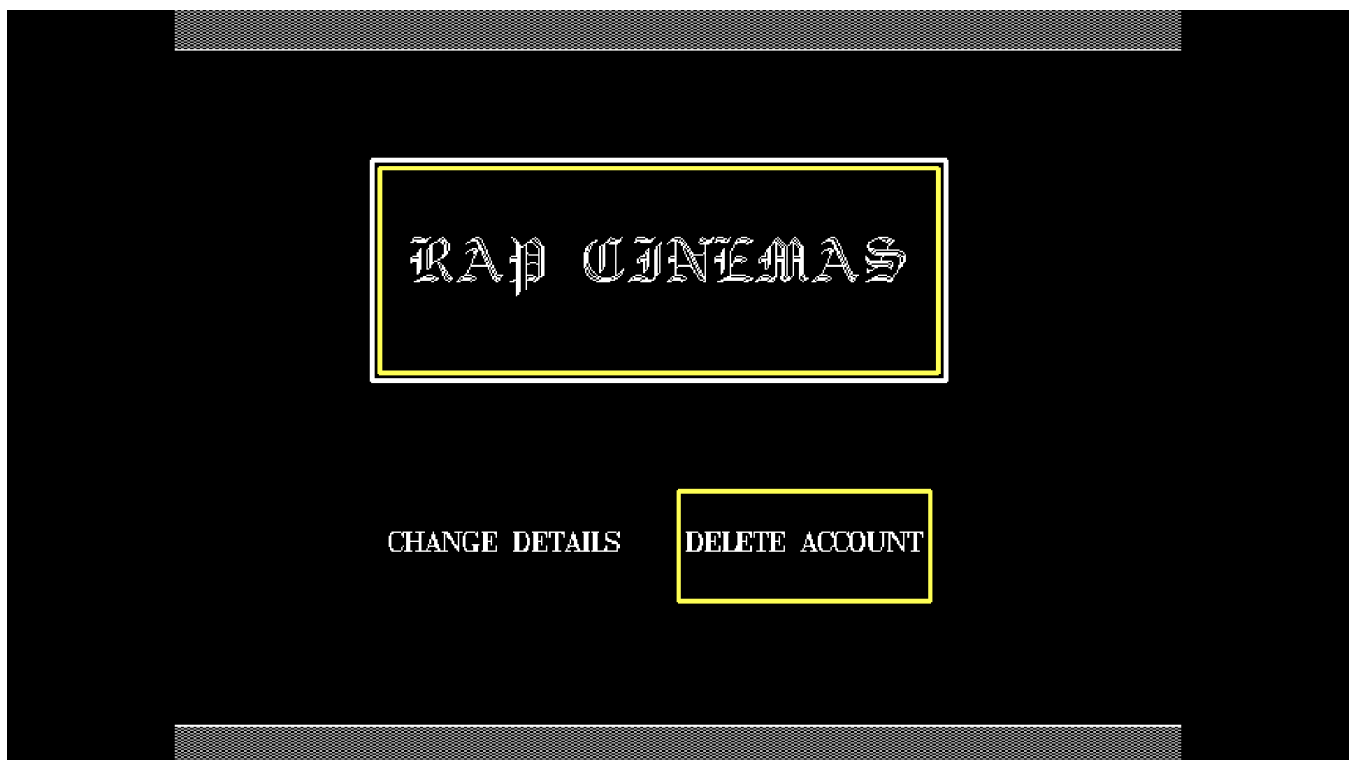
CHANGE DETAILS/DELETE ACCOUNTS:



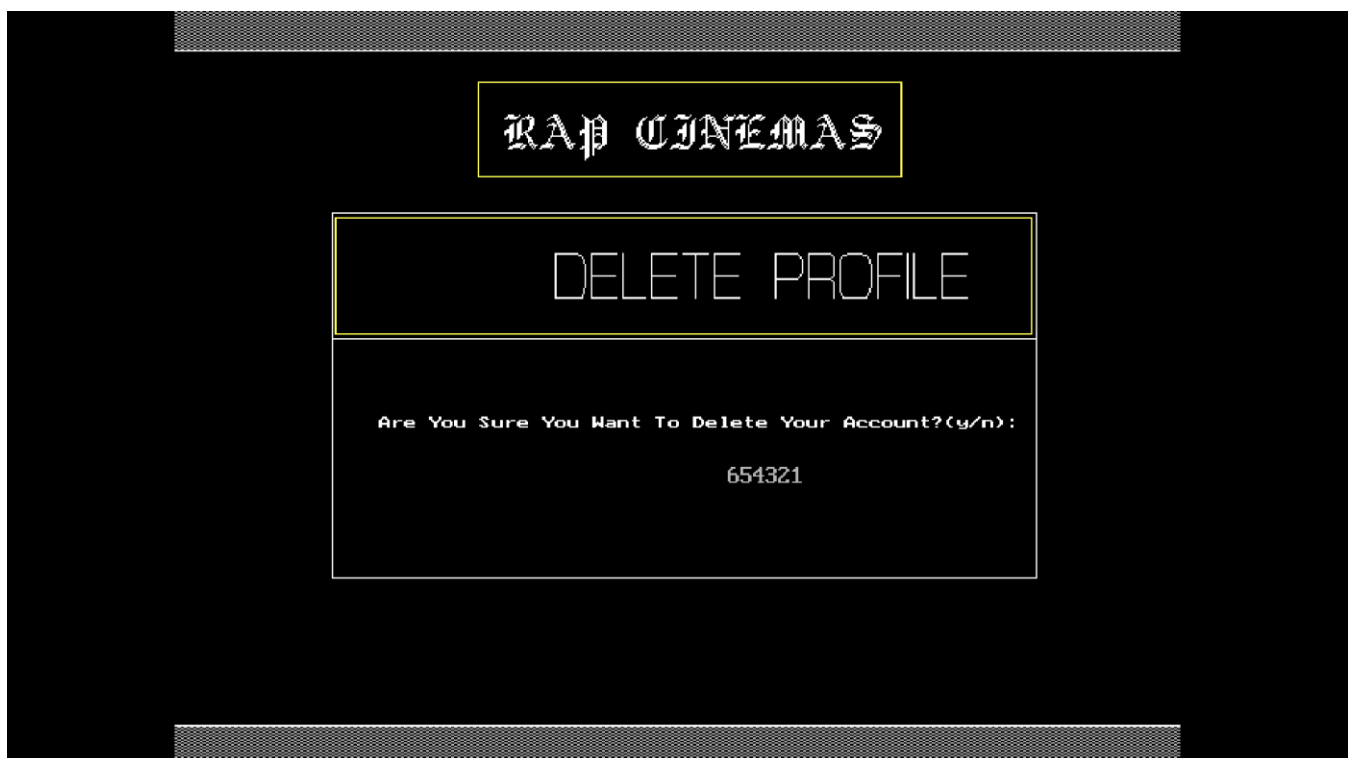
ACCEPTING NEW DETAILS:



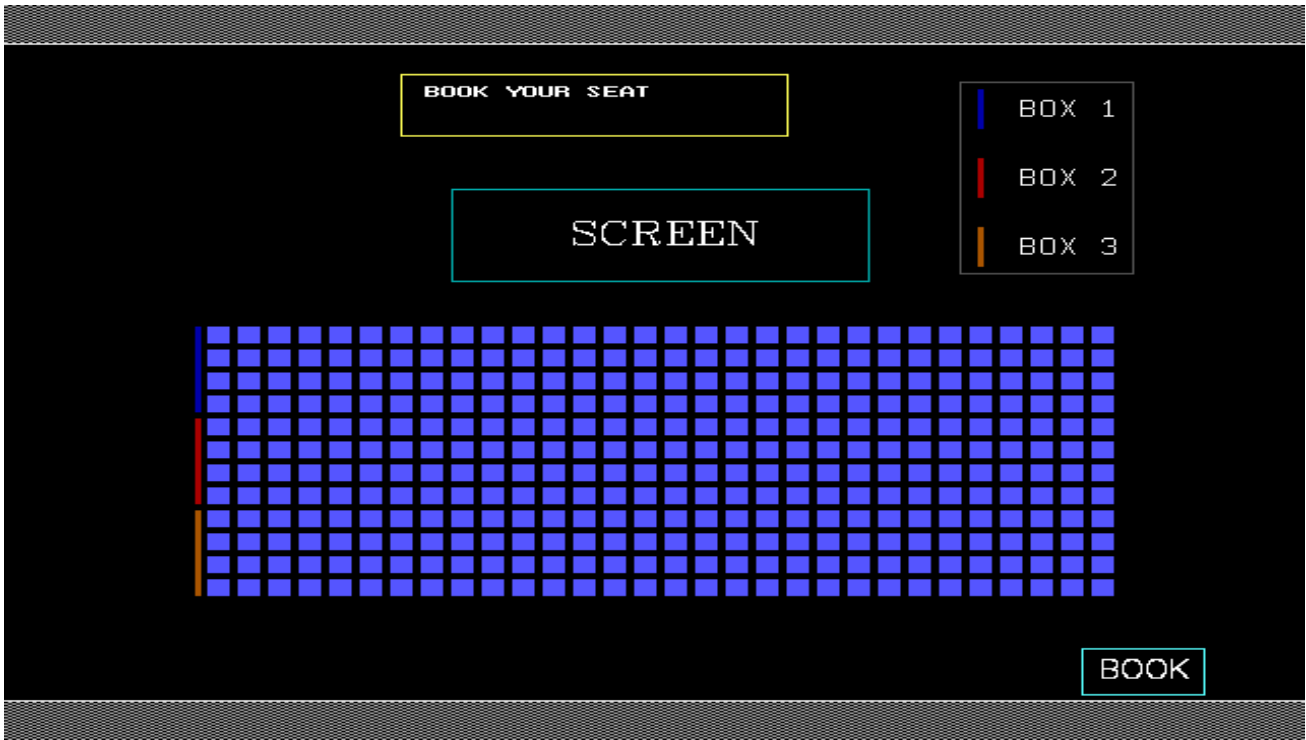
DELETING ACCOUNT:



ACCOUNT DELETED:



HOUSEFULL-THEATRE HALL:



HOUSEFULL CONDITION:



ADMIN SCREEN:

ADMIN PAGE	
①	AVENGERS 3
②	INTERSTELLAR
③	BLOOD DIAMOND
④	PADMAN
⑤	SHOLAY
⑥	PADMAAVAT
⑦	SARKAR
⑧	VISVASAM
⑨	96
Enter movie to be replaced: 5	
Enter Admin code: RAP	

ADMIN PAGE	
①	AVENGERS 3
②	INTERSTELLAR
③	BLOOD DIAMOND
④	PADMAN
⑤	NEWTON
⑥	PADMAAVAT
⑦	SARKAR
⑧	VISVASAM
⑨	96
Enter movie to be replaced: 5	
Enter Admin code: RAP	
Enter new movie: NEWTON	