Department of Computer Science & Engineering

UE20CS253: Computer Networks

Socket programming

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Project title: Movie Booking server of Gopalan Mall

The language used: python

Main module: socket module from python

Description: In this project, we can observe how to connect server and client through socket which is present in between application and transport layer and allowing the client and server to communicate for booking the movie tickets. The type of connection we are using is TCP which is a reliable transport layer protocol and as there will be in-order and no-loss delivery of the packets.

Ticket booking: Here we are asking the user to select an available movie name, then we are displaying the available number of tickets for the respective movie. The user will be then asked to enter the number of tickets he/she wants to book. When they enter the number of tickets, the available number of tickets will be decreased by the number of tickets booked by user.

Ticket Cancellation: Here we are providing an option to the user whether they want to confirm the tickets or cancel some tickets. If the user wants to cancel the tickets and enters the number of tickets to be cancelled within a valid bound then it will cancel the entered number of tickets. It will add back the cancelled number of tickets to available number of tickets and confirm the remaining tickets.

Displaying booking details: Once after confirming tickets, we are displaying the booking information or booking summary which contains the user-name, date , movie-name, number of tickets, and total ticket amount for that movie.