Technical Design Document

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Date Created: 5/24/05

**Description:**

This is an application to sell movie tickets. It keeps track of available tickets (starting at 20) and allows customers to purchase up to four tickets at a time. The system ensures no overbooking and handles invalid inputs gracefully.

**Functions:**

show\_tickets(self): Displays the number of tickets available for purchase and the purchase limit.

purchase\_tickets(self, num\_requested): Handles the logic for ticket purchasing. It checks for conditions like exceeding the max allowed, insufficient tickets, and invalid input. It updates the ticket count upon successful purchase.

**Logical steps :**

Initialize ticket inventory with 20 tickets.- Display welcome message and available tickets.- Loop while tickets are available:- Ask for the number of tickets the customer wants.- Validate the input.- Update inventory if valid. - Ask if another customer wants to buy.- Exit loop if user says no or tickets are sold out.

**Repository link:**

[**CampsPA/Programming\_exercise1: Programming Exercise 1**](https://github.com/CampsPA/Programming_exercise1)

Testing output screenshot:

A screenshot of a computer

AI-generated content may be incorrect.