## **FINAL PROJECT PROPOSAL**

**Ushake Shravya**  
**002035170**

**1. Problem Statement**

Cinema operations face breakdowns in coordination between producers, distributors, management, and operational teams. Key activities like ticket sales, staff assignments, and financial tracking are manually managed, leading to bottlenecks, accountability gaps, and subpar customer service. The lack of a streamlined system makes scaling operations inefficient and error prone.

**2. Solution**

A centralized Cinema Management System that integrates all stakeholders—from producers to customers—via a structured, request-driven interface. This system ensures:

* Hierarchical workflow between **Producer → Distributor → Manager**
* Smooth routing of tasks to **Concession Staff**, **Technician**, and **Ticket Seller**
* Real-time data transfer to the **accountant**
* Seamless ticket booking experience for **Customers**
* **Admin** oversight across the entire system

**3. Organizational Structure (6 Organizations under 4 Enterprises)**

**Enterprise 1: Cinema Content & Distribution Enterprise**

* **Organization 1: Content Acquisition**
  + Role: **Producer**
* **Organization 2: Distribution Team**
  + Role: **Distributor**

**Enterprise 2: Operations & Ticketing Enterprise**

* **Organization 3: Operational Management**
  + Role: **Manager**
* **Organization 4: Box Office**
  + Role: **Ticket Seller**

**Enterprise 3: Services & Support Enterprise**

* **Organization 5: Facility Staff**
  + Roles: **Concession Staff, Technician**

**Enterprise 4: Administrative Enterprise**

* **Organization 6: Oversight & Finance**
  + Roles: **Admin, Accountant, Customer**

**4. Roles**

1. **Admin** – Oversees all system operations
2. **Producer** – Initiates movie acquisition
3. **Distributor** – Distributes content to managers
4. **Manager** – Assigns staff and supervises operations
5. **Ticket Seller** – Books tickets for customers
6. **Customer** – Buys tickets and interacts with the system
7. **Concession Staff** – Manages snacks and refreshments
8. **Technician** – Resolves technical issues
9. **Accountant** – Handles finance & revenue

**5. Work Request Flow**

| **Request Type** | **From** | **To** | **Type** |
| --- | --- | --- | --- |
| MovieAcquisitionRequest | Producer | Distributor | Cross-organization |
| DistributionAssignment | Distributor | Manager | Cross-organization |
| StaffAssignmentRequest | Manager | Technician / Concession Staff | Internal |
| TicketingRequest | Manager | Ticket Seller | Internal |
| TicketBookingRequest | Customer | Ticket Seller | Cross-organization |
| FinancialUpdateRequest | Ticket Seller | Accountant | Internal |

All requests are managed via a **Work Request Engine** that enables structured task routing, progress tracking, and real-time collaboration between roles across enterprises.

**UML Diagram :**

**A diagram of a company

Description automatically generated`**