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A computer and earth map

AI-generated content may be incorrect.

**S17, TA Nehal Akram**

**Intro to Database Systems**

**Movie Rental Management System**

Entity Relation Diagram

[Diagram Link](https://lucid.app/lucidchart/2b1de107-4c71-4e59-a5fe-b8259dcec6a5/edit?viewport_loc=-7132%2C433%2C10911%2C5387%2C0_0&invitationId=inv_f3e81b1b-fdb9-40c7-aa14-a1a74664b8ec)

A diagram of a diagram

AI-generated content may be incorrect.

Functional Requirements:

A Movie Rental Management System can include the following functionalities:

|  |  |
| --- | --- |
| Functional Requirement Number | Requirement |
| FR1 | The system allows users and admins to sign up. |
| FR2 | Users can update their personal details (email, phone, addresses, credit card). |
| FR3 | Admins can add and update movie tapes and assign them to genres and suppliers. |
| FR4 | Users can browse or filter movies by genre, year, supplier, or lead actor. |
| FR5 | The system tracks tape availability and rental activity. |
| FR6 | Rentals are tied to specific users and tapes and include date and charge. |
| FR7 | The system records suppliers and their provided movies. |
| FR8 | The system supports retrieving rental data per user and calculating total rentals per genre. |

Assumptions

A set of assumptions and design choices made to support the system’s functionality and required queries.

|  |  |
| --- | --- |
|  | Assumptions |
| 1 | Each user must have a unique email and a valid credit card number. |
| 2 | Each movie tape has a unique ID, title, charge, genre, and supplier. |
| 3 | A user can rent multiple movies, and each rental is tracked with a date and charge. |
| 4 | A movie can belong to one or more genres. |
| 5 | A rental status is tracked to determine availability. |
| 6 | An admin can Accept a supplier's Request to add a movie. |
| 7 | Each user must have a unique email and a valid credit card number. |