Process flow and system design of cinema booking system

1)List of key requirements-

How much budget is the company willing to spend on designing the system?

What is the timeline for the project?

What skills are required by the technical team building the system?

2)Main considerations-

How will the data be collected and displayed?

Where will all the data be stored? How, where, when will the data be backed up?

What architecture, hardware and software is required for backend and front end?

How will security breaches be prevented and how will they be handled if a breach does occur?

How long will the data be retained? What are the archiving policies being followed? Do they comply with GDPR?

Need details of movies, registered users, payments, ticket details, theatre list, customer details etc. Further details for each of these is given in the figure below.

3)Common/biggest problems-

Not enough budgeted or time, not enough skilled people to design and impellent the system, not enough understanding of cyber/phishing attacks, not enough consideration given to data quality and retention -policies not in place, access to DB may not be secure etc. etc.

4)Components/tools used

Database- Can be a SQL server

Website frontend,

Web browser

API to connect between these-also connection to bank websites to collect payment etc.

