***Design a cinema booking system.***

***Think how you would approach the problem and what are potential ways of solving it? You do not need to write actual code, but describe the high-level approach:***

***Draw a list of key requirements***

• What are your main considerations?

* What data will the user need to input: Name, card details - do they need to have an account or can they book by inserting these details as a guest
* What data will we need to pull from the database: live booking system, find the details for the film time is selected
* Whether we let the use choose the booking or we create an algorithm that finds a seat for them
* DOB check for those booking movies over 12A

• What would be your common or biggest problems?

* Two users trying to book the same seat at the same time, need to ensure some kind of lock so that a seat gets reserved as soon as it is clicked on even if the account hasn’t checked out

• What components or tools would you potentially use?

* Python, API, SQL tables: booking table, user table, user card table

Diagram:

