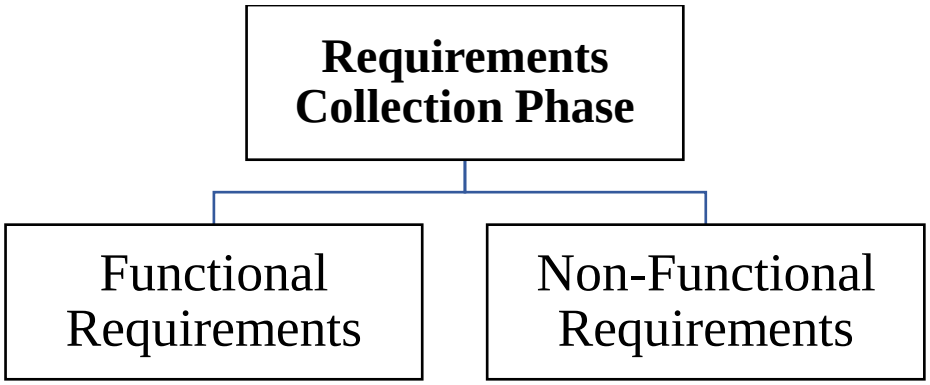
## Requirements Collection Phase:




**1)Functional Requirements:**

In system analysis and software design, a functional requirement defines a function of a system or its components, where a function is described as a specification of behaviour between outputs and inputs.

For example: Send an email when a new customer signs up or create a new account.

Following are the Functional Requirements for Movie Ticket Booking System:

There are many factors or functional requirement for buying or selling the movie tickets some of them are given below -

**1)Registration:**

If a customer wants to book the ticket, then he/she must be registered, an unregistered user cannot book the ticket. Registration is the first step of booking the tickets for anyone. A user should be able to sign-up using his/her email or phone number.

**2)Login:**

A user should be able to login to his/her account by the user of his UserID and password.

**3) Search movie:**

Users should be able to search the currently viewing movies and get to know about the details of the movies including genre, theme, PG Rating, showtimes etc.

**4)Seat viewing:**

Users should be able to get a seating chart when he/her selects a movie and a showtime. The seating view should include exit markers as well as seat arrangement showing the class of seats (platinum, gold or silver).

**5)Payment:**

Users should have multiple payment options available for his/her convenience including Cash/UPI/Card and other prominent methods.

**6)Logout:**

After the user has completed his work he/she should be able to logout from the system.

**7)Generate ticket:**

After booking, the system can generate the portable document file (.pdf) and then send one copy to the customer’s email address and another one as an SMS to the customer's phone.

**8)Add movie:**

The system shall have a feature for admin to add movies and their details.

**9)Modify Movie Details:**

The system admin should have an option to modify movie details after it has been posted.

**10)Remove Movies:**

The system should have a feature for the admin to delete/archive older movies that are no longer available to watch in cinemas.

**2)Non-Functional Requirements:**

Following are the Non-Functional Requirements for Movie Ticket Booking System:

1)Allow booking of the ticket from 3 days before

2)Forbid booking if the show-time of the movie is outdated.

3)Send a confirmation email for booking in no more than 4 minutes

4)Not take money from the user if booking operation was unsuccessful .

5)Behave correctly with more than 1 user accessing the system simultaneously.

6)Notify if the ticket was validated previously.

7)Load in no more than 1 minute.

8)Perform a payment procedure in no more than 1 minute.

9)Notify users if they were managed by administrator.

10)Load all the dashboard statistics and metrics in no more than 1 minute.

**1)Security:**

The system must automatically log out all customers after a period of inactivity. The system should not leave any cookies on the customer's computer containing the user's password. The user password database should be encrypted. The system's back-end servers shall only be accessible to authenticated administrators.

**2)Reliability:**

The reliability of the overall program depends on the reliability of the separate components. The main pillar of the reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes.

**3)Availability:**

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the downtime of the server on which the system runs. In case of any hardware failure or database corruption, a replacement page will be shown. Also in case of a hardware failure or database corruption, backups of the database should be retrieved from the server and saved by the administrator. Then the service will be restarted. It means 24 X 7 availability.

**4)Maintainability:**

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the program will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently.

**5)Portability:**

The application is HTML and scripting language based. So The end-user part is fully portable and any system using any web browser should be able to use the features of the system, including any hardware platform that is available or will be available in the future. An end-user is using this system on any OS; either it is Windows or Linux. The system shall run on PC, Laptops, and PDA etc.

**6)Accessibility:**

The system will be a web-based application it is going to be accessible on the web browser.