

IT314: Software Engineering

Lab Session V – Project Understanding, Elicitation, Features

Group 9

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Q1) Ambiguities or omissions

1. Does the system can book the tickets from the initial station to other destinations or can he use any stations for the ticket?
2. What if the booking database is delayed or Any technical or electrical issues, and due to which payment is done, but a ticket is unbooked. Will the user get cashback immediately?
3. Can users book multiple tickets at the same time?
4. Can a user get a General route ticket or he only can buy the ticket for a specific train only?
5. What if the Payment fails, and the booking is not done, does it hold for payment to try again or will the user have to do all the processes again? (Ticket hold for some time)
6. Is there accessibility support for the people who can't see the screen properly?
7. Can the customer buy different destination tickets at the same time or he has to do it again?
8. Does the user have to add his ID proof for the ticket?
9. Does the customer get a receipt of the payment done?
10. Are there different modes of payment available?
11. How will the system react if the material on which the ticket is printed gets exhausted?
12. What happens if no train from that platform goes directly to the entered destination?
13. Does the system also suggest when and where you can change the trains?
14. Can a customer cancel a ticket and get a refund for an already booked ticket?
15. Can the User print the ticket again for the same booking?

Q2) Library Information System

Functional requirements :

1. Search a book
 - a. By Title
 - b. By Category
 - c. By keyword
 - d. By Author's name
 - e. By Publisher's name
2. Filters
 - a. Available for issue or not
 - b. Language options
3. Login with secure institute credentials
4. Dashboard
 - a. Due Fines
 - i. When exceeds a certain amount, the account will be temporarily blocked
 - b. Personalized feed (Based on books issued in the past)
 - c. Issued book history
 - d. Reissue book
 - e. Reminder mails for returning the Book
5. Register as a new user
6. Request a book
7. Admin :
 - a. Add books to the LAN server list
 - b. Manage Issues
 - c. Check if anyone hasn't submitted the book before the deadline

Non-Functional Requirements:

Constraints:

- The system must be developed on the latest version of HTML5
- The system should work on all modern web browsers used within Institute

Performance:

- The system should be able to handle multiple users efficiently
- Response time for user's requests must be as small as possible
- The system server should have strong internet connectivity for 24 * 7

Security:

- Hashing algorithm should be implemented such that no credentials are stored in plain text
- The system must be accessible within the institute's local area network (LAN) only

Reliability:

- Multiple users should not be able to borrow the same copy of the book at the same time.
- Extending the return deadline should reflect in the book dashboard also so that others can see whether this book is available or not.

Database Requirements:

- The database must maintain the availability status of each book

Privileges:

- Library staff must be able to enter new book entries and handle day to day transactions
- The librarian must be able to add/remove the record of any book