IT-314
Software Engineering

Lab 5: Project Understanding, Elicitation, Features

Project - Online Faculty Staff Directory for Multi University

~ By Group 17

- **AYAN KHOKHAR** - 201801057 (Group Leader)
- **RUTVIK SHAH** - 201801113
- **URMIK MAKANI** -201801117
- **TULSI SHAH** -201801180
- **ANAND NADPARA** -201801192
- **JHANVI SHROFF** - 201801198
- **AKASH PARAMAR** -201801212
- **SHYAM VAGHELA** - 201801214
- **NISHTHA CHAUDHARY** - 201801235
- **TUSHAR PATIL** - 201801440

Q.1. Discover ambiguities or omissions in the following statement of requirements for part of a ticket-issuing system:

⇒ Which are the available languages?
⇒ Option for how many tickets
⇒ Can the user select different classes of tickets?
⇒ Showing the details of any particular train
⇒ Detail of how much each would cost
⇒ Back-tracking (Incase if he/she wants to change destination.)
⇒ There should be a cancellation option if the ticket order is mistakenly placed.
⇒ Multiple modes of payment
⇒ Machines should be able to connect different initial points to different destinations.
⇒ Receipt should be provided after making a successful transaction.

Q.2. Case Study- Identify the functional and non-functional requirements for the given problem specification.

Functional Requirements:

1. User registration for LIS (Library Information System) Members

   Any member of the institute who wants to use library facilities needs to register with the Library Information System. After successful registration the member will get a user ID & password.

2. User login- User can login into the system with valid user ID and password and he/she can avail the facilities of the library system.

3. Pre Booking for the book - The users have an option to pre order any book.

4. Search Books with available dates - Users (members as well non members) can search & browse and see the details of the books.

The books can be filtered by either title, author name or publisher's name.

5. Issue books- Users can issue the book if 1)it is available in the library. 2) No other member has issued that particular book 3) User has not issued the maximum number of books.

6. Return books - Users can return the book after the specified time.

7. Re-issue book- Users can re-issue the book if there is no other booking for that book. The user can re-issue the book a maximum of 2 times after that he needs to return the book.

8. Enter a new book record in the system- The librarian has administrative control over the system thus he can add any new record of book in the LIS system.

9. Remove a record- In case any book is taken off the librarian can remove the record from the system.

Non-Functional Requirements:

1. Availability(24x7)
2. Security (User's information should not leak and system should run only within the institute LAN)
3. The system should be portable, lightweight and should work on different devices.
4. Interactive and easy to use User interface
5. The database should be persistent and reliable.
6. The system should run on low network bandwidth.