**Case Study 1:**

LeaseBookClub is a library offering books, Cd’s or Magazines on various topics, on lease.

Managing, tracking and maintaining an inventory of books has become a nightmare. Hence, there is a critical need to go for an automated system.

The business owner has come up with some key requirements for a system to be built.

You are tasked to design and implement a system that will ease the functioning of the business.

**Admin**:

BR 1: The administrator needs to manage the books based on categories.

Add or remove or modify book details,

Lease out books

Browse book catalog

Add or remove user/borrower

List all users/borrowers

BR 2: Need to keep track of which book is leased out.

BR 3: Should be able to upload data for books in xml or CVS format or a zip containing either of them. (Expose a service)

BR 4: Report / API exposed for inventory details like number of books in each category, how many are available or leased etc.

BR 5: Automated reminder to borrower about due date. (Two days prior) (Can update his message box) (Optional to send email)

BR 6: Once book is returned an automated mail for the next borrower. (Can update his message box) (Optional to send email)

BR 7: Reports / API exposed for trends in each category, like which book has most bookings, which books is leased/borrowed heavily etc. (optional)

**Borrower/User:**

BR 1: Register themselves with the system

BR 2: Search for books based on category or book name or author name etc

BR 3: Request/Subscribe for a book.

BR 4: Look at the history of books borrowed (optional)

**Case Study 2:**

CorpTraining is company which specializes in corporate trainings.

Currently, the company uses manual process for scheduling and evaluating the training process.

They have planned to move to digital medium, which will help them to automate all aspects of the training process.

Having identified their immediate and future needs, they have come up with the following requirements:

a) Login module

Can have three types of users

* ADMIN
* Students
* Trainers

Based on the type of user that logged in to the application, they can have different landing page with different functionality.

b) ADMIN Module: Company Admins should be able to manage the trainings

Should be able to create training schedule

Should be able to assign trainers

Should be able to add participants

Should be able to remind/notify participants/trainers via mail of the schedule/change in schedule (optional)

Should be able to generate reports by providing training name, start and end date.

System should generate weekly report automatically (every friday evening)(optional).

c) Trainers module:

Should be able to upload questions against trainings.

(Can be in csv format, which can be shown in html form)

Should be able to upload assignments for a training. (optional)

Should be able to view the submitted questions and evaluate the same.

d) Students:

Should be able to view and answer the questions posted by trainer

Should be able to upload any assignments

The questions/assignment can be accessed by student only after the completion of training.

f) API (rest/soap) exposed which can fetch training reports, so that interested stakeholders can display critical/crucial info on their dashboard. (Trainings in progress, trainers, trainer’s ratings, student’s attendance etc)

g) Going forward it would be good to have a pool of questions for a topic and the system automatically selects the questionnaire for that topic. (Optional)