**

Mohammad Ali Jinnah University

Chartered by Government of Sindh - Recognized by HEC

Assignment 4

**Subject**: Software Construction and Development (SCD)

**Section**: AM

**Teacher**: Muhammad Tauseef

**Muhamad Fahad** (FA19-BSSE-0014)

(FA19BSSE0014@maju.edu.pk)

Assignment 4

# C:\Users\MFY\Desktop\Semeste_4_Spring-2021_\1. Software Construction and Development\Assgnment\4\Assignment 04 - Case Study.JPG

1. **What will be the Requirement Gathering Strategy?**

Strategy for requirement gathering in this case study are following that are meeting, interview, Surveys. These Strategy are the best practice for **Requirement Gathering.**

1. **What are the possible Requirements Stakeholders?**

* Staff Users.
* Borrowers.
* Developer.

1. **Identify the functional and Non-Functional Requirements and make a separate list?**

* Functional Requirements:
  + Check, Return Copy of books.
  + Add, Remove, Search Copy of Books.
  + Last, currently checkout of books by borrower.
* Non-Functional Requirements:
  + Security of database.
  + All copies must be available for check out.
  + Borrower has limited numbers of checked out.
  + Copy cannot be both available and checked out.
  + Restricted Transaction.

1. **What are the Domain Requirements as well as missing requirements?**

* Domain Requirements:
  + Add, Remove, Search Copy of Books.
  + Check, Return Copy of books.
* Missing requirements:
  + 3 limits to have a book on members.
  + Notification sends on issue or return of book.
  + User can reserve book if it is not available.
  + Books return after due date must be add some extra fine.

1. **Discuss the quality of overall system and we can improve it by considering the Key Process Area under the light of CMM.**

The quality of overall system according CMM Principle are low because of the missing requirement so that we can say the process that improve are following:

* **Project Planning:** It includes defining resources required, goals, constraints, etc.
* **Requirements Management**: It includes the management of customer reviews and feedback which result in some changes in the requirement set.
* **Software Quality Assurance**: It guarantees a good quality software product by following certain rules and quality standard guidelines while development.