

## Homework 01

- I. Which of these are Functional requirements and which are Non-functional requirements?
  1. User of the library system shall be able to borrow books.
  2. User shall be able to borrow a maximum of three books from the library.
  3. If User requests a book that has been borrowed, the Admin shall insert the request into the waiting list.
  4. The system must automatically send an email to notify the user whenever the books they requested is available.
  5. Modifying data in the database should be updated for all admins accessing it within a few seconds.
  6. The system must run on a server with Internet Information Services (IIS).
  7. Emails should be sent with a latency of no greater than 12 hours from such an activity.
  8. The system shall be able to delete users whose membership statuses have expired.
  9. The system must be written in Java.
  10. This system must be able to works on both Window OS and Mac OS.
- II. Re-write the following requirements of a Library System by following the guidelines presented in Lecture.
  1. Lecturer or Student shall be able to borrow books from the library.
  2. Admin must be able to insert book into the database as well as remove books from the database.
  3. If a user asks for a book that has been borrowed, his request gets inserted in a waiting list.
  4. User shall be able to easily view his book borrowing history records.
  5. It would be nice if the system would send an email to students to remind them about the due date for returning the books when the due date is approaching.
  6. The email reminding should include the relevant information.
  7. All books must be searchable.
  8. The database must be able to store a large number of records.
  9. The names of people who have been borrowing a book should be displayed as requested.
  10. The system shall be reliable enough.

**Deadline:** 12th October, 11:59 PM. Please go to Edmodo > View Assignment > Turn in Assignment.