**2.7 Assumptions and Dependencies**

The website will be used in computers using web browsers.

Another use is in the smartphone using web application or web browser.

**3. System Features**

* 1. **account operations:**
     1. **create an account**

User shall be able to create an account using the name, ID, major, and list of courses.

* + 1. **Login**

User shall be able to login to their accounts using username and password.

* + 1. **update account**

User shall be able to update the list of courses in their accounts every semester.

* 1. **URL operations:**
     1. **View URLs**

User shall be able to view the list URLs of each course. The URLs which uploaded by his/her classmate.

* + 1. **Filter URLs**

The URLs should be filters by topic and uploader.

* + 1. **Upload URLs**

User shall be able to upload new URL to the list of URLs about given topic to given course.

* + 1. **Delete URLs**

User shall be able to delete URL added by same user.

* + 1. **Duplicate URLs**

The system shall check for the new URL if already exist. Exist URL not allowed to be added.

**4. External Interface Requirements**

**4.1 User Interfaces**

The software UI shall be compatible to any browser such as Chrome, Internet browser, or Safari which user can access to the system.

The software UI implemented using any tool or software package.

### **4.2 Hardware Interfaces**

the software is website which run over the internet so all the hardware shall require to connect internet will be hardware interface for the system.

**4.2 Software Interfaces**

User shall be able to use the website without install any additional software except the web browser on Windows, OSX computers and on Android, IOS smartphones.

**4.3 Communications Interfaces**

the system shall use the HTTP protocol for communication over the internet.

5 Other Nonfunctional Requirements

5.1 Performance Requirements

if the expected number of the user at least 200. The system should handle 200 users at the same time.

The system database should handle at least a thousand of users at any time.

The website should be developed as a lightweight software. So, it can work on any platform even is the internet connections is slow.

5.2 Security Requirements

the system should use proper login mechanism for the users account to avoid hacking.