Different types of Users of the software system:

1. Students
2. Teachers

User Requirements

1.Student:

The student requests the web site from web server using internet browser. The student inserts his username and password at log in area in the login Page. If the student inserts a valid username and password he or she will see the main menu that contains the following items:
1. Name/ Student Identification Number.
2. Course Information: : course name, number, point, semester and related assignments for each course.

Functional Requirements:

1. Update his personal data.
2. Upload the solution of any of his assignments before the deadline (if strict).
3. Receive a message from the system after uploading the solution (accept or reject).
4. Gets feedback from the teacher.
5. See the information about the assignment (description and instruction, start-time, end-time, motivation, how to download and upload the assignment and type of work: individually or as group.

2.Teacher:

The teacher requests the web site from web server using internet browser. The teacher inserts his username and password at login area in the login Page. If the teacher inserts a valid username and password he will see the teacher main menu that contains the following items:
1. Name/Teacher Identification Number
2. Course Information: course name, number, Student List, semester and related assisignment for each course.

Functional Requirements:

1. Administer or Teacher (add, delete, and update) courses and oversee students using a front-end only visible to the teacher.
2. In this front-end the teacher can add Assignment information (description and instruction, start-time, end-time, motivation, how to download the assignment and upload it, type of work: individually or as groups).
3. Login information (accounts for the students) :Teacher can see the assignments submitted by students. He can assess the students by browsing a report of the assignments and students.
4. Teacher can manually send feedback, marks and notes to students.

Data entities and attributes:

1. Name

2.ID
3.Password
4.Email
5.Course name
6.Course number
7.Course number credits
8.Course level
9.Assignment Number
10.Assignment Description
11.Instructions
12.Start Time for Assignment
13.End Time for Assignment
14.URL
15.Links

#Non-Functional Requirements:

1.System must be able to get rid of any incorrect operations from teachers or students by using validation control.
2. User friendly experience by developing good interface and data accessibility, must be easy.
3.System is available via the Internet and can be accessed any time and any place by the internet.
4.System must be fast.

#System constraints and requirements:

Hardwares:

Computer Systems,
Connection to a server

Software:

Front-End: Angular js, other JS libraries,HTML,CSS,Bootstrap,AJAX call
Back-End: Spring Boot(Building the APIs),any Database like MySQL.