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| **SRS Knowbis** |
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# Functional Requirements

There are five main types of functional requirements for this project, super admin, admin, instructor, student, and system.

## **Super admin**

### **The super admin shall be able to manage administrators.**

### **The super admin shall be able to reset his account’s password.**

### **The super admin shall be able to do all of what the administrators can do.**

## **Admin Functional Requirements**

The admin has requirements that must be observed and implemented appropriately, which are as follows:

### **Administrators shall be able to login to the system.**

### **Administrators shall be able to log out of the system.**

### **Administrators shall be able to manage categories.**

#### Administrators shall be able to create new categories, including title

#### Administrators shall be able to edit categories.

#### Administrators shall be able to remove existing categories.

### **Administrators shall be able to manage courses’ status.**

#### Administrators shall be able to block courses, in case of a violation.

#### Administrators shall be able to unblock courses.

### **Administrators shall be able to manage instructors’ status.**

#### Administrators shall be able to block instructors, in case of a violation.

#### Administrators shall be able to unblock instructors.

#### Administrators shall be able to verify instructors, after reviewing their documents.

#### Administrators shall be able to remove verification from instructors, in case of a violation.

## **Instructor Functional Requirements**

Instructors has requirements that must be observed and implemented appropriately, which are as follows:

### **Instructors shall be able to manage their profiles.**

#### Instructors shall be able to edit profiles

##### Name

##### Password

##### profile picture

##### Description.

### **Instructors shall be able to manage courses.**

#### Instructors shall be able to create new courses

##### Title

##### Description

##### Brief description

##### Description

##### Image

##### Last update

##### Status

##### Requirements

##### What will learn

#### Instructors shall be able to view their uploaded courses

##### Lectures

##### Documents

##### Description

##### Enrolled students

##### Length

##### Rate.

#### Instructors shall be able to edit their existing courses.

#### Instructors shall be able to remove their existing courses.

### **Instructors shall be able to manage lectures**

#### Instructors shall be able to create new lectures, including title, description, brief description, video, and documents.

#### Instructors shall be able to edit lectures, including title, description, brief description, video, and documents.

#### Instructors shall be able to remove lectures,

### **Instructors shall be able to upload academic certificates.**

## **Student Functional Requirements**

Students has requirements that must be observed and implemented appropriately, which are as follows:

### Students shall be able to register in the system.

### Students shall be able to log into the system

#### using their email and password.

### Students shall be able to log into the system via third parties

#### Google authentication.

#### Facebook authentication.

#### GitHub authentication.

### Students shall be able to log out of the system.

### Students shall be able to reset their password.

### Students shall be able to search for courses.

### Students shall be able to view courses.

#### Title

#### Description

#### Length

#### Instructor

#### Enrolled students

#### Rate.

### Students shall be able to manage enrolled courses

#### Students shall be able to view lists of all courses uploaded on the system.

#### Students shall be able to enroll in courses.

#### Students shall be able to access courses’ content after enrolling in them, including lectures, documents, and videos.

#### Students shall be able to rate courses after finishing them, from 1 to 5.

#### Students shall be able to drop out of courses, after enrolling in them.

#### Students shall be able to view lists of their enrolled in courses.

### Students shall be able to view instructors’ profiles

#### Name

#### Major

#### Description

#### Rate

#### Uploaded courses.

### Students shall be able to edit their profile,

#### Name

#### Password…

## **System Functional Requirements**

The system needs requirements that must be followed and implemented to achieve the objectives of the system, which are:

### The system shall be able to send notifications.

#### The system shall be able to send verification emails to students when they register.

#### The system shall be able to send resetting password emails to students when they attempt to reset their passwords.

#### The system shall be able to send a notification of violation to instructors when they violate the regulations.

# Non-Functional Requirements

It is important to define the non-functional requirements that define the criteria that can be used to judge the operation of the system, rather than specific behaviors. A research conducted in January 2020 concluded that in Agile software projects, more than 77% of respondents consider having non-functional requirements to be “important” at the least; moreover, above 30% believe that it is “critical”. Another finding worth mentioning is that, overall, respondents with a greater experience value non-functional more [10].

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| Requirement | Priority | Description |
| NFR1 | High | **Availability**:  The system should be available at least 98% of the time after deployment. |
| NFR2 | High | **Reusability**:  At least half of the system components must be reusable, where they can be used in other systems. |
| NFR3 | High | **Usability**:  The platform’s interface must be user-friendly and requires less time than competitors to perform any functionality.  Average user can view lectures in less than x seconds. |
| NFR4 | Medium | **Security**:  The system shall detect and hinder Bots and IP Throttling attacks. |
| NFR5 | Medium | **Scalability**:  The system must be scalable to support at least 3000 concurrent users in the time of launching, and no less than 6000 users during the first year. |
| NFR6 | High | **Maintainability**:  The system shall exhibit a Mean Time To Repair (MTTR) of not more than 4 hours. |
| NFR7 | Low | **Reachability**:  The system shall support multiple platforms. |