# User Requirements

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**Administrator:-**

* Log in to the system.
* View the history of attendance of each class.
* Send customized E-mails to students.

**Faculty:**

* Scan QR code on QR code detector.
* Log in to the system.
* Enter the code of course.
* Enter time duration of lecture.
* See the history of attendance.

**Student:**

* Scan QR code on QR code detector.

# Functional Requirements

## Administration:

**Administrator:- (Log-in)**

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| --- | --- |
| FR01-01 | System shall allow administrator to log-in. |
| FR01-02 | System shall get username form administrator. |
| FR01-03 | System shall get password from administrator. |
| FR01-04 | System shall authenticate user when he / she submits username and password on login button. |
| FR01-05 | System shall allow user to Reset his username and password when he / she clicks on the Reset button. |
| FR01-06 | System shall allow user to remember his username and password by entering into the checkbox. |

**Administrator:- (History)**

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| --- | --- |
| FR02-01 | The system shall get the class. |
| FR02-02 | The system shall get the course code. |
| FR02-03 | The system shall authenticate the course code according to class. |
| FR02-04 | The system shall display the attendance hours w.r.t. date. |

**Administrator:- (send E-mail)**

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| --- | --- |
| FR03-01 | The system shall display the students with short attendance. |
| FR03-02 | The system shall send warning e-mails to students with short attendance. |
| FR03-03 | The system shall print monthly attendance for each class when user clicks on “print” button. |

## Faculty:

**Faculty(QR code )**

|  |  |
| --- | --- |
| FR11-01 | System shall scan the QR code from the user. |
| FR11-02 | System shall authenticate the QR code from the user. |
| FR11-03 | System shall scan the passing of user. |

**Faculty:- (Log-in)**

|  |  |
| --- | --- |
| FR12-01 | System shall allow faculty to log-in. |
| FR12-02 | System shall get username form faculty. |
| FR12-03 | System shall get password from faculty. |
| FR12-04 | System shall authenticate user when he / she submits username and password on login button. |
| FR12-05 | System shall allow user to Reset his username and password when he / she clicks on the Reset button. |
| FR12-06 | System shall allow user to remember his username and password by entering into the checkbox. |

**Faculty:- (course code)**

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| --- | --- |
| FR13-01 | The system shall get the course code. |
| FR13-02 | System shall let the user to proceed. |

**Faculty(lecture time duration)**

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| --- | --- |
| FR14-01 | System shall get the time duration form the user (faculty) of the relevant course. |
| FR14-02 | System shall allow the user to proceed. |

## Student:

**Student (QR code):-**

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| --- | --- |
| FR21-01 | System shall scan the QR code from the user. |
| FR21-02 | System shall authenticate the QR code from the user. |
| FR21-03 | System shall scan the passing of user. |

# Non functional Requirements

## Performance:-

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| --- | --- |
| NFR01-01 | The Average load time of the system must be less than 5 seconds. |
| NFR01-02 | Average processing time taken by the system to complete a request by a user should be less than 10 seconds. |
| NFR01-03 | System Mean Time to Failure should not be more than 30 seconds within active hours of use. |
| NFR01-04 | Average system response time should not be greater than 5 seconds. |
| NFR01-05 | Faculty and Administrator can access the system during university timings. |
| NFR01-06 | System shall be able to handle multiple requests. |

## Security:-

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| --- | --- |
| NFR02-01 | System must provide access to authorized users only that enter through the login module. |
| NFR02-02 | After the end of a user Session, no information must be saved anywhere other than the user machine. |
| NFR02-03 | A proper mechanism shall be adopted in order to avoid any hacker’s attacks on the application. |
| NFR02-04 | The system shall terminate if the password entered wrong more than 3 times. |

## Availability:-

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| --- | --- |
| NFR03-01 | The system shall be available from 7am to 7pm. |