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**Use Cases:**

1. View Attendance
2. Update Attendance
3. Scan Student
4. Search Available Students
5. Create Time Table
6. Search Available Rooms
7. Search Available Slots

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| **Use Case Section** | **Comment** |
| Use Case Name | View Attendance |
| Scope | Automatic attendance system |
| Level | Main Function |
| Primary Actor | 1: Teacher  2: Student  3: Parents |
| Stake holders and interests | 1. Student (check attendance) 2. Teacher (Mark attendance)   3: Parents (Mark Attendance) |
| Pre conditions | after the successful face detection, Attendance will be marked and then view them. |
| Success guarantee | View the attendance sheet after marking. |
| Main Success Scenario | 1: Parent must excess the son attendance by login the portal.  2: student can see his own attendance.  3: Teacher can mark /unmark the student in the attendance sheet and also see them. |
| Extensions |  |
| Special Requirements | 1: It should be reliable.  2: it has high performance and secure database.  3: User friendly: user can easily understand and handle in first use. |
| Technology and Data Variations List | Student can search university portal while logged in using his password and username given to him. |
| Frequency of Occurrences | 24/7 hours. |
| Miscellaneous | 1: Attendance sheet does not be shown. Because of internet issues and server down. |

1. **Update Attendance**

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| **Use Case Section** | **Comment** |
| Use Case Name | Update Attendance |
| Scope | Automatic attendance system |
| Level | Main Function |
| Primary Actor | Teacher |
| Stake holders and interests | Teacher (only teacher can update) |
| Preconditions | After successful mark the attendance, we can also update the attendance within 3 days. |
| Success guarantee | Update the attendance sheet after marking. |
| Main Success Scenario | Teacher has rights to update the wrong attendance. |
| Extensions | After 3 days later, attendance will not be update.  Teacher is not correct the wrong attendance. |
| Special Requirements | 1: It should be reliable.  2: it has high performance and secure database.  3: User friendly: user can easily understand and handle in first use. |
| Technology and Data Variations List | Student can search university portal while logged in using his password and username given to him. |
| Frequency of Occurrences | 3 days. |
| Miscellaneous | 1: update Attendance does not be generate or correct Because of internet issues and server down |

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| **Use Case Section** | **Comment** |
| Use Case Name | Scan Student |
| Scope | Automatic attendance system |
| Level | Main Function |
| Primary Actor | Admin |
| Stake holders and interests | Admin  Teacher |
| Preconditions | First register himself then login it and then open face sensor. |
| Success guarantee | Face will be detected successfully. |
| Main Success Scenario | after the successful face detection, Attendance will be marked. |
| Extensions | Sometime face out of range. |
| Special Requirements | 1: It should be reliable.  2: it has high performance and secure database.  3: User friendly: user can easily understand and handle in first use. |
| Technology and Data Variations List | Student can search university portal while logged in using his password and username given to him. |
| Frequency of Occurrences | Only a specific class time |
| Miscellaneous | Because of darkness face will not detected.  Internet issues.  System should be hanged. |

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| **Use Case Section** | **Comment** |
| Use Case Name | Search Available Students |
| Scope | Automatic attendance system |
| Level | Main Function |
| Primary Actor | Teacher |
| Stake holders and interests | Teacher (only teacher can update) |
| Preconditions | After successfully login, teacher can search a student through face detection means that how much student can scan face |
| Success guarantee | scan face of student without telling each one present or not. |
| Main Success Scenario | Easily for teacher to find students how much presents |
| Extensions |  |
| Special Requirements | 1: It should be reliable.  2: it has high performance and secure database.  3: User friendly: user can easily understand and handle in first use. |
| Technology and Data Variations List | Student can search university portal while logged in using his password and username given to him.  Sensor can scan in the face of student and scan him. |
| Frequency of Occurrences | Specific time (depend on class time) |
| Miscellaneous | Server down  Not scan face because of darkness  Errors |

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| **Use Case Section** | **Comment** |
| Use Case Name | Create Time Table |
| Scope | Automatic attendance system |
| Level | Main Function |
| Primary Actor | admin |
| Stake holders and interests | Teacher  Admin |
| Preconditions | After successfully scan face, we create timetable for to present and absent the students. |
| Success guarantee | Daily classes attended or unattended by students through create table. |
| Main Success Scenario | To see how much classes attended or not. |
| Extensions |  |
| Special Requirements | 1: It should be reliable.  2: it has high performance and secure database.  3: User friendly: user can easily understand and handle in first use. |
| Technology and Data Variations List | Student can search university portal while logged in using his password and username given to him.  Sensor can scan in the face of student and scan him. |
| Frequency of Occurrences | Specific time (depend on class time) |
| Miscellaneous | Server down  Not scan face because of darkness  Errors |

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| **Use Case Section** | **Comment** |
| Use Case Name | Search Available Rooms |
| Scope | Automatic attendance system |
| Level | Main Function |
| Primary Actor | Admin |
| Stake holders and interests | Admin |
| Preconditions | After successful login the system, before scan of face search available rooms for class. |
| Success guarantee | Already available room |
| Main Success Scenario | Room available for lecture |
| Extensions | Something scan face but not check rooms for lecture so many times not be available |
| Special Requirements | Good performance and minimum time consume |
| Technology and Data Variations List | Student can search university portal while logged in using his password and username given to him. |
| Frequency of Occurrences | Specific time (before lecture start) |
| Miscellaneous | 1: available room does not be generate or correct Because of internet issues and server down |

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| **Use Case Section** | **Comment** |
| Use Case Name | Search Available Slots |
| Scope | Automatic attendance system |
| Level | Main Function |
| Primary Actor | Admin |
| Stake holders and interests | Admin |
| Preconditions | After successful login the system, before scan of face search slots. |
| Success guarantee | For lecture we seen for slots |
| Main Success Scenario | Room slots for lecture |
| Extensions | Something scan face but not check slots for lecture so many times not be available |
| Special Requirements | Good performance and minimum time consume |
| Technology and Data Variations List | Student can search university portal while logged in using his password and username given to him. |
| Frequency of Occurrences | Specific time (before lecture start) |
| Miscellaneous | 1: available slots does not be generate or correct Because of internet issues and server down |