**Attendance App: Use case**

As a facilitator, I need to be able to

1. Add/edit/remove/view my courses.
2. Add/edit/remove/view my timetable i.e. multiple occurrence of a course.
3. Add/edit/remove/view holidays
4. Add/edit/remove/view students to my class
5. Mark a student present/absent/leave/late/leave or add special note for a class if somehow they are not able to do so by themselves.
6. View reports of attendance student wise and course wise
7. Import students list
8. Share reports via email
9. Receive reminder notification to take attendance
10. View/update past attendance records

As a student, I need to be able to

1. Register myself as a student
2. Mark my presence in class by this app notification
3. View/share my attendance report

**Database design:**

Users

|  |  |  |
| --- | --- | --- |
| emailid | PK | varchar |
| userid | Id for attendees only | varchar |
| User\_name | Name supplied by user | varchar |
| password |  | varchar |
| Type | Facilitator or attendee | varchar |
| Forgot\_code | In case of forgot password, generated code | int |

Courses

|  |  |  |
| --- | --- | --- |
| Course\_code | PK | varchar |
| Course\_name |  | varchar |
| Course\_description |  | varchar |
| Facilitator\_id | FK from Users emailid | varchar |

Holidays

|  |  |  |
| --- | --- | --- |
| Holidays\_name |  | varchar |
| Holiday\_from |  | Date |
| Holiday\_to |  | Date |

Timetable

|  |  |  |
| --- | --- | --- |
| Timetable\_id | PK | Int-auto generated |
| Course\_id | FK-Courses | varchar |
| Start\_date |  | Date |
| End\_date |  | Date |
| Start\_time |  | Time |
| End\_time |  | Time |
| Is\_recurring | One time or recurring | boolean |
| Recurring\_days | Mon, tue, wed etc... | varchar |

Attendees

|  |  |  |
| --- | --- | --- |
| Attendee\_id | FK-Email id from user table | varchar |
| Course\_id | FK-course\_code from Courses | varchar |

Attendance\_master

|  |  |  |
| --- | --- | --- |
| Attendance\_id | PK | Int – auto generated |
| Timetable\_id | FK-from timetable | int |
| Is\_submitted |  | boolean |
| Date\_to\_be\_submitted | Pre-populated from time table | Date |
| Date\_actually\_submitted | Actual submission date | Date |
| Notes | Notes for this class | varchar |

Attendance\_Absentees – only students who are absent are stored in here

|  |  |  |
| --- | --- | --- |
| Attendance\_id | FK from Attendance\_master | int |
| Absetee\_id | FK emailid from Users table | varchar |

Attendee\_notes – only for students for whom note is added

|  |  |  |
| --- | --- | --- |
| Attendance\_id | FK from Attendance\_master | int |
| Attendee\_id | FK emailid from Users table | Varchar |
| note |  | Varchar |