

### Database tables and their columns (Updated)

Users-stores data from the Sign Up form, used in validation and storing user data

- User\_ID (primary key, auto increment)
- Email (unique)
- Password (hashed)
- F\_Name
- L\_Name
- Role\_ID(foreign key to Role)

### Role

- Role\_ID
- Role\_Name

Timetable-stores data about the timetable that will be displayed to the users

- Timetable\_ID (primary key)
- Timetable\_Url (If we decide to store it online)
- Timetable\_BLOB (if we decide to store the timetable in the database)

User\_Timetable junction table, used to link users with the timetable

- User\_Timetable\_ID
- User\_ID(foreign key to Users)
- Timetable\_ID(foreign key to Timetable)

Venues-stores data concerning venues

- Venue\_ID (primary key)
- Venue\_Name

Events-stores information about events

- Event\_ID (primary key)
- Event\_Name
- Event\_Description
- Event\_Date
- Event\_Venue(foreign key to Venues)

Event\_Attendee\_Data

- Attendee\_ID (primary key)
- User\_ID (Foreign key to Users)
- Event\_ID (Foreign key to Events)

### Announcements

- Announcement\_ID (primary key)
- Announcement\_Title
- Announcement\_Description
- Announcement\_priority(foreign key to priority(priority\_ID))
- Announcement\_Creator(foreign key to Users(User\_ID))

### Announcement-User junction table(links announcements to users)

- Announcement\_User\_ID
- Announcement\_ID(foreign key to announcements)
- User\_ID(foreign key to users)

### Priority

- priority\_ID
- priority\_type(text eg High)

### Assignments-stores information about assignments

- Assignment\_ID (primary key)
- Assignment\_Creator\_ID(foreign key to Users)
- Assignment\_Title
- Assignment\_Description
- Assignment\_DueDate (datetime)
- Assignment\_Marks
- Assignment\_Instructions

### Assignment\_Submission\_Data-used to collect information about students who have submitted assignments

- Submission\_ID (primary key)
- Assignment\_ID (Foreign key to Assignments)
- User\_ID (Foreign key to Users)
- Submission\_Date (datetime)

### Admin\_Data-Used to collect data about various aspects of the web app eg number of users

- Data\_ID (primary key)
- Data\_Description
- Data\_Value

### Comments-Used to store the comments of students

- Comment\_ID (primary key)
- User\_ID (Foreign key to Users)
- Comment\_Content
- Comment\_Date (datetime)

#### Classes-Used to store details about the class details

- Class\_ID (primary key)
- Class\_Name

#### Class schedule-used to store data from the form on the module leader dashboard

- entry\_id(primary key, auto increment)
- Class\_ID(foreign key to classes)
- Class\_Time (datetime)
- Venue\_ID (Foreign Key to Venues)

#### Notifications-Used to store default notifications that will be sent to users in the event of an action eg. when an assignment is submitted

- Notification\_ID (primary key)
- Notification\_Content
- Notification\_Date (datetime)

#### Notification\_User junction table(links notifications to users)

- Notification\_User\_ID
- Notification\_ID
- User\_ID

#### Polls-stores poll information

- Poll\_ID
- Poll\_Title
- Poll\_Description
- Expires\_at
- Status

#### Poll\_options-stores poll options

- Option\_id
- Poll\_id(foreign key to Polls)
- Option\_text

#### Poll\_Data-stores data from the polls

- User\_ID(foreign key)

- Poll\_ID(foreign key)
- Option\_ID(foreign key)

#### Achievements-stores data about achievements

- Achievement\_ID
- Achievement\_Description
- Achievement\_points

#### User\_Achievements(junction table)- links achievements to users

- User\_ID
- Achievement\_ID

#### Relationships in DueDay

- One role can be assigned to many Users(one to many)
- Users are linked to their timetables, junction table used for scalability purposes eg, in the event the same user switches to a different class and has another timetable
- One venue can host multiple events
- One venue can host multiple classes
- One user can attend multiple events
- One event can have multiple attendees
- One priority level can be assigned to multiple announcements
- One user (admin/module leader) can create multiple announcements
- One announcement can be sent to multiple users
- One user(module leader) can create multiple assignments
- One assignment can be submitted by multiple users
- One user can submit multiple assignments
- One class can have multiple scheduled sessions
- One notification can be sent to multiple users
- One user can receive multiple notifications
- One poll can have multiple options
- One user can create multiple polls(module leader)
- One user can view and answer multiple polls
- Multiple users can have one type of achievement
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