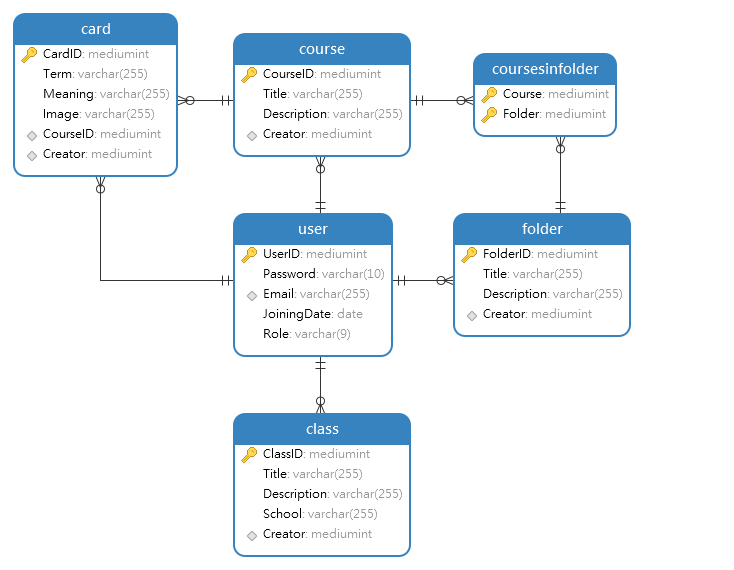
1. **Entities – Relationship Diagram**

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1. **Data Dictionary** 
   1. **Table: User**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Data Type | Field length | Constraint | Description |
| UserID | Mediumint |  | Not null  Primary key | User id  Auto generated |
| Password | Varchar | 10 | Not null | Login password for user |
| Email | Varchar | 255 | Not null | Email address of user  Unique |
| JoiningDate | Date |  | Not null | Date when user register successfully |
| Role | Varchar | 9 | Not null | Role of user |

* 1. **Table: Card**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Data Type | Field length | Constraint | Description |
| CardID | Mediumint |  | Not null  Primary key | Card id  Auto generated |
| Term | Varchar | 255 | Not null | Term of the card |
| Meaning | Varchar | 255 | Not null | Meaning of the term |
| Image | Varchar | 255 |  | Image link |
| CourseID | Mediumint |  | Not null | Id of course that contains this card |
| Creator | Mediumint |  | Not null | Id of who creates this card |

* 1. **Table: Course**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Data Type | Field length | Constraint | Description |
| CourseID | Mediumint |  | Not null  Primary key | Course id  Auto generated |
| Title | Varchar | 255 | Not null | Title of course |
| Description | Varchar | 255 |  | Description of course |
| Creator | Mediumint |  | Not null | Id of who creates this course |

* 1. **Table: Folder**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Data Type | Field length | Constraint | Description |
| FolderID | Mediumint |  | Not null  Primary key | Folder id  Auto generated |
| Title | Varchar | 255 | Not null | Title of folder |
| Description | Varchar | 255 |  | Description of folder |
| Creator | Mediumint |  | Not null | Id of who creates this folder |

* 1. **Table: CoursesInFolders**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Data Type | Field length | Constraint | Description |
| CourseID | Mediumint |  | Not null  Primary key | Course id |
| FolderID | Mediumint |  | Not null  Primary key | Folder id |

* 1. **Table: Class**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Data Type | Field length | Constraint | Description |
| ClassID | Mediumint |  | Not null  Primary key | Class id  Auto generated |
| Title | Varchar | 255 | Not null | Title of class |
| Description | Varchar | 255 |  | Description of class |
| School | Varchar | 255 |  | School name |
| Creator | Mediumint |  | Not null | Id of who creates this class |