**Data Dictionary:**

**Books:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field\_Name** | **DataType** | **Field\_Length** | **Constraint** | **Description** |
| id | int | 11 | Primary key | Unique Id of Book |
| isbn | int | 11 | Unique, Not Null | Unique ISBN of Book |
| title | varchar | 255 | Not Null | Title of Book |
| author\_id | int | 11 | Foreign Key | References author\_id of author table |
| description | varchar | 500 | Not Null | Description of Book |
| course\_id | bigint | 11 | Foreign Key | References course\_id of course table |
| branch\_id | bigint | 20 | Foreign Key | References branch\_id of branch table |
| semester | int | 255 | Not Null | Semester |
| faculty\_id | int | 255 | Foreign Key | References id of faculty table |
| admin\_id | int | 255 | Foreign Key | References id of admin table |
| cover | varchar | 255 | Not Null | Cover of Book (.png/.jpg/.jpeg) |
| file | varchar | 255 | Not Null | Name of the file (.pdf/.docx/.pptx) |
| status | text |  | Not Null | Status of Book  (approve, reject,pending) |
| student\_id | int | 255 | Foreign Key | References id of student table |

**Students:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field\_Name** | **DataType** | **Field\_Length** | **Constraint** | **Description** |
| id | int | 11 | Primary key | Unique Id of Student |
| name | varchar | 255 | Not Null | Name of Student |
| email | varchar | 255 | Not Null, Unique | Unique Email of Student |
| regno | bigint | 20 | Not Null, Unique | Registration no. of Student |
| password | varchar | 255 | Not Null | Password of Student |
| cpassword | varchar | 255 | Not Null | Confirm Password of Student |
| phone | bigint | 12 | Not Null, Unique | Unique Student contact no |
| profile\_type | varchar | 255 | Not Null | Student type |
| course | varchar | 255 | Not Null | Course type |
| token | varchar | 255 | NULL | Token id |
| token\_expire | date | - | NULL | Expire token date |

Admin:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field\_Name** | **DataType** | **Field\_Length** | **Constraint** | **Description** |
| id | int | 11 | Primary key | Unique Admin Id |
| full\_name | varchar | 255 | Not Null | Admin Name |
| email | varchar | 255 | Not Null | Email of admin |
| password | text | - | Not Null | Password of Admin |
| cpassword | varchar | 255 | Not Null | Confirm Password of Admin |

**Faculty:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field\_Name** | **DataType** | **Field\_Length** | **Constraint** | **Description** |
| id | int | 255 | Primary key | Unique Id of Faculty |
| name | varchar | 255 | Not Null | Name of Faculty |
| email | varchar | 255 | Not Null, Unique | Unique Email of Faculty |
| regno | int | 11 | Not Null, Unique | Unique Registration no. |
| password | varchar | 255 | Not Null | Password of Faculty |
| cpassword | varchar | 255 | Not Null | Confirm Password of Faculty |
| phone | bigint | 12 | Not Null ,Unique | Unique Faculty contact no |
| profile\_type | varchar | 255 | Not Null | Faculty type |
| dept | varchar | 255 | Not Null | Department type of Faculty |
| token | varchar | 255 | NULL | Token generation date |
| token\_expire | date | - | NULL | Expire token date |

**Course:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field\_Name** | **DataType** | **Field\_Length** | **Constraint** | **Description** |
| course\_id | bigint | 11 | Primary key | Unique Id of Course |
| course\_name | varchar | 255 | Not Null | Name of Course |
| Admin\_id | int | 255 | Foreign Key | References id of Admin table |

**Branches:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field\_Name** | **DataType** | **Field\_Length** | **Constraint** | **Description** |
| branch\_id | bigint | 20 | Primary key | Unique Id of Branch |
| course\_id | bigint | 20 | Foreign key | References course\_id of course table |
| branch\_name | varchar | 255 | Not Null | Branch Name |
| admin\_id | int | 11 | Foreign Key | References id of Admin table |

**Author:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field\_Name** | **DataType** | **Field\_Length** | **Constraint** | **Description** |
| author\_id | int | 255 | Primary key | Unique Id of Author |
| author\_name | varchar | 255 | Not Null | Author Name |
| admin\_id | int | 255 | Foreign Key | References id of Admin table |
| faculty\_id | int | 255 | Foreign Key | References id of faculty table |