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| --- | --- | --- | --- | --- | --- |
| **Data**  **Element name** | **Definition** | **Data Type** | **Length / Size** | **Example** | **Conditions**  **(Constraints)** |
| **User First Name** | First Name of the User. | string | 10 | Haleema | First Name should be string, and its length must be less than 10 and greater than 0 |
| **User Last Name** | Last Name of the User. | string | 10 | Sadia | Last Name should be string, and its length must be less than 10 and greater than 0. |
| **User Email** | Email address of User. | string | 30 | halimsabbcy  @gmail.com | Applicant Email must be in string, have @, .com, gmail, and must be less than or equal to 30 characters. |
| **User Password** | Password for logging in and registration. | string | 12 | halsad\_2004 | Password should be string, contain alphanumeric characters and must be greater than 0 and less than 13. |
| **User Gender** | Gender of the User. | string | 7 | Female | It should be in string format, and it must be of less than 8 characters. |
| **User Contact Number** | Phone number of User for contacting. | Integer | 11 | 0335965010 | Applicant contact number must be in integer format and its length must be equal to 11 integers. |
| **User ID** | Unique identifier for each user(student, supervisor, admin) | integer | 11 | 04072312010 | Must be unique and auto-incremented |
| **User Role** | Role of the user in the system(student,  Supervisor, administrator) | string | 10 | Student | (Must be one of: 'Student', 'Supervisor', 'Admin') [CHECK constraint applied] |
| **Project ID** | Unique identifier for each project | integer | 10 | 1000 | Must be unique and auto-incremented |
| **Project Title** | Title of the project | string | 50 | Final Year Project Management system | Must be in string format, max 50 characters |
| **Project Description** | Brief summary of project | text | \_\_ | System for managing final year projects in which students submit many versions of work products and supervisor gives feedback | Can be null |
| **Project Status** | Current status of the project | string | 15 | In Progress | (Must be one of: 'Pending', 'In Progress', 'Completed')  [CHECK constraint applied] |
| |  |  | | --- | --- | | **Project Start Date** |  | | Date when the project starts | Date | \_\_ | 2025-03-01 | Must be in YYYY-MM-DD format |
| **Project End Date** | Expected project completion date | Date | \_\_ | 2025-05-01 | |  |  | | --- | --- | | Must be greater than Project Start Date |  | |
| **CGPA** | Student CGPA | DECIMAL | (3,2) | (e.g., 3.85) | Must be within valid range (e.g., 2.50 to 4.00) |
| **Student ID** | Unique identifier for a student | integer | \_\_ | 1001 | Must exist as a User ID , Foreign key |
| **Supervisor ID** | Unique identifier for a supervisor | integer | \_\_ | 2001 | Must exist as a User id, Supervisor ID as a Foreign Key. |
| **Submission ID** | Unique identifier | Integer | 10 | 3001 | Auto-Incremented, unique |
| **Project ID** | Project related to the submission | Integer | 10 | 1000 | Must exist in Project Table |
| **Student ID** | Student who submitted work | Integer | 11 | 04072312008 | Must exist in User Table (Role='Student') |
| **File Name** | |  | | --- | |  |   Name of the submitted file | String | 100 | work\_v1.pdf | NOT NULL ,must be PDF, DOCX, or ZIP |
| **Submission Date** | Date of submission | Date Time | - | 2025-03-10 12:30:00 | Must be in YYYY-MM-DD  &  HH:MM:SS format |
| **Status** | Submission status | String | - | Pending | CHECK ('Pending', 'Reviewed', 'Approved') |
| **Feedback ID** | Unique identifier | Integer | 10 | 6001 | Auto-Incremented,  unique |
| **Submission ID** | Submission for which feedback is given. | Integer | 10 | 3000 | Must exist in Project  Table |
| **Supervisor ID** | Supervisor who provided feedback. | Integer | 11 | 80011 | Must exist in User Table (Role='Supervisor') |
| **Feedback Text** | |  | | --- | |  |   Comments or review on the submission | Text | - | Improve Code Structure. | Can be Null,  Text format |
| **File Attachment** | Optional feedback file. | VARCHAR | 255 | Feedback.pdf | Must be **PDF, DOCX**  or NULL |
| **Feedback Date** | Date and time when feedback was given. | Date  Time | - | Pending | Default: CURRENT\_  TIMESTAMP |