ZAMBIA UNIVERSITY COLLEGE OF TECHNOLOGY

Bachelor of Cyber Security
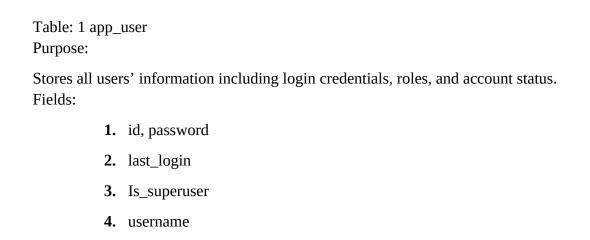
Final Year Project Report.

"Smart CDF Monitoring Tracker"

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System and Database Schema Report

Table: 1 app_user
Purpose:

Stores all users' information including login credentials, roles, and account status.
Fields:

1. id, password
2. last_login
3. Is_superuser
4. username
5. first_name
6. last_name
7. email
8. is_staff
9. is_active
10. date_joined
11. role
12. created_at
13. updated_at

Table 2 category
Purpose:

Holds fund categories used for classification and organization.
Fields:

1. id, code
2. is_skill
3. created_at
4. updated_at
5. is_deleted

Table 3 status
Purpose:

        Defines possible fund statuses such as "Pending" or "Approved."

Fields:

1. id, name
2. created_at
3. updated_at

Table 4 fund
Purpose:

        Main table storing fund information linked to categories, statuses, and users.

Fields:

1. id, title
2. description
3. amount
4. category_id
5. status_id
6. created_by_id
7. checked_by_id
8. created_at
9. updated_at
10. checked_at
11. is_deleted

Table 5 skilldetail
Purpose:

Contains skill-specific metrics related to each fund.
Fields:

id,

fund_id

paid_percentage

picked_percentage

total_applicants

total_selected

Table 6 grantdetail
Purpose: Stores grant-related data for funds.
Fields:

1. id

2. fund_id

3. total_grants_disbursed

4. total_beneficiaries

5. total_amount_disbursed

Table 7 loandetail
Purpose: Tracks loan information related to funds.
Fields:

1. id, fund_id

2. total_loans_given

3. total_amount_loaned

4. average_interest_rate

5. total_repaid_amount

Table 8 sponsorshipdetail
Purpose: Holds sponsorship data associated with funds.
Fields:

1. id, fund_id

2. total_sponsored_students

3. total_amount_sponsored

4. academic_year

5. created_at

6. updated_at

Table 10 remarks_history

Purpose:

Maintains remarks and audit trail for fund details.
Fields:

1. id, fund_id

2. detail_type

3. remarks

4. updated_at

5. updated_by_id

cdf-test-db app_user
- id : int(11)
- password : varchar(128)
- last_login : datetime
- is_superuser : tinyint(1)
- username : varchar(150)
- first_name : varchar(150)
- last_name : varchar(150)
- email : varchar(254)
- is_staff : tinyint(1)
- is_active : tinyint(1)
- date_joined : datetime
- role : varchar(10)
- created_at : datetime
- updated_at : datetime
- is_deleted : tinyint(1)

cdf-test-db fund
- id : int(11)
- title : varchar(255)
- description : text
- amount : decimal(12,2)
- category_id : int(11)
- status_id : int(11)
- created_by_id : int(11)
- checked_by_id : int(11)
- created_at : datetime
- updated_at : datetime
- checked_at : datetime
- is_deleted : tinyint(1)

cdf-test-db remarks_history
- id : int(11)
- fund_id : int(11)
- detail_type : varchar(50)
- remarks : text
- updated_at : datetime
- updated_by_id : int(11)

cdf-test-db status
- id : int(11)
- name : varchar(50)
- created_at : datetime
- updated_at : datetime
- is_deleted : tinyint(1)

cdf-test-db category
- id : int(11)
- code : varchar(20)
- is_skill : tinyint(1)
- created_at : datetime
- updated_at : datetime
- is_deleted : tinyint(1)

cdf-test-db sponsorshipdetail
- id : int(11)
- fund_id : int(11)
- total_sponsored_students : int(11)
- total_amount_sponsored : decimal(12,2)
- academic_year : varchar(100)
- created_at : datetime
- updated_at : datetime

cdf-test-db skilldetail
- id : int(11)
- fund_id : int(11)
- paid_percentage : decimal(5,2)
- picked_percentage : decimal(5,2)
- total_applicants : int(11)
- total_selected : int(11)
- training_sessions_conducted : int(11)
- training_duration_days : int(11)

cdf-test-db grantdetail
- id : int(11)
- fund_id : int(11)
- total_grants_disbursed : int(11)
- total_beneficiaries : int(11)
- total_amount_disbursed : decimal(12,2)

cdf-test-db loandetail
- id : int(11)
- fund_id : int(11)
- total_loans_given : int(11)
- total_amount_loaned : decimal(12,2)
- average_interest_rate : decimal(5,2)
- total_repaid_amount : decimal(12,2)