

Diagram illustrating the database schema for a system, showing various tables and their relationships.

**Tables and their attributes:**

- ActiveStorage::Blob**
  - byte\_size integer (8)
  - checksum string
  - content\_type string
  - created\_at datetime
  - id uuid PK
  - filename string
  - id integer (8) PK
  - key string
  - metadata text
  - service\_name string
- ActiveStorage::VariantRecord**
  - blob\_id integer (8) FK
  - id integer (8) PK
  - variation\_digest string
- ActiveStorage::Attachment**
  - blob\_id integer (8) FK
  - created\_at datetime
  - id integer (8) PK
  - name string
  - record\_id uuid FK
  - record\_type string
- Record**
- Media::Object**
  - answer\_id uuid FK
  - created\_at datetime
  - id uuid PK
  - type string (255)
  - updated\_at datetime
- SavedUpload**
  - created\_at datetime
  - id uuid PK
  - updated\_at datetime
- Option**
  - canonical\_name string (255)
  - created\_at datetime
  - id uuid PK
  - latitude decimal (8,6)
  - longitude decimal (9,6)
  - mission\_id uuid FK
  - name\_translations jsonb
  - updated\_at datetime
  - value integer
- Form**
  - access\_level string (255)
  - allow\_incomplete boolean
  - authenticate\_sms boolean
  - created\_at datetime
  - default\_response\_name string
  - downloads integer
  - id uuid PK
  - mission\_id uuid FK
  - name string (255)
  - original\_id uuid FK
  - published\_changed\_at datetime
  - root\_id uuid FK
  - sms\_relay boolean
  - smsable boolean
  - standard\_copy boolean
  - status string
  - updated\_at datetime
- FormVersion**
  - code string (255)
  - created\_at datetime
  - current boolean
  - form\_id uuid FK
  - id uuid PK
  - minimum boolean
  - number string (10)
  - updated\_at datetime
- Whitelisting**
  - created\_at datetime
  - id uuid PK
  - updated\_at datetime
  - user\_id uuid FK
  - whitelistable\_id uuid FK
  - whitelistable\_type string (255)
- Operation**
  - created\_at datetime
  - creator\_id uuid FK
  - details string (255)
  - id uuid PK
  - job\_class string (255)
  - job\_completed\_at datetime
  - job\_error\_report text
  - job\_failed\_at datetime
  - job\_id string (255)
  - job\_started\_at datetime
  - mission\_id uuid FK
  - notes string (255)
  - provider\_job\_id string (255)
  - unread boolean
  - updated\_at datetime
  - url string
- Response**
  - cached\_json jsonb
  - checked\_out\_at datetime
  - checked\_out\_by\_id uuid FK
  - created\_at datetime
  - device\_id string
  - dirty\_json boolean
  - form\_id uuid FK
  - id uuid PK
  - incomplete boolean
  - mission\_id uuid FK
  - odk\_hash string (255)
  - old\_id integer
  - reviewed boolean
  - reviewer\_id uuid FK
  - reviewer\_notes text
  - shortcode string (255)
  - source string (255)
  - updated\_at datetime
  - user\_id uuid FK
- FormForwarding**
  - created\_at datetime
  - form\_id uuid FK
  - id uuid PK
  - recipient\_id uuid FK
  - recipient\_type string (255)
  - updated\_at datetime
- UserGroupAssignment**
  - created\_at datetime
  - id uuid PK
  - updated\_at datetime
  - user\_group\_id uuid FK
  - user\_id uuid FK
- Assignment**
  - created\_at datetime
  - id uuid PK
  - mission\_id uuid FK
  - role string (255)
  - updated\_at datetime
  - user\_id uuid FK
- Sms::Message**
  - adapter\_name string (255)
  - auth\_failed boolean
  - body text
  - broadcast\_id uuid
  - created\_at datetime
  - id uuid PK
  - mission\_id uuid FK
  - reply\_error\_message string
  - reply\_to\_id uuid
  - sent\_at datetime
  - to string (255)
  - type string (255)
  - updated\_at datetime
  - user\_id uuid FK
- Tag**
  - created\_at datetime
  - id uuid PK
  - mission\_id uuid FK
  - name string (64)
  - updated\_at datetime
- Tagging**
  - created\_at datetime
  - id uuid PK
  - question\_id uuid FK
  - tag\_id uuid FK
  - updated\_at datetime
- OptionNode**
  - ancestry text
  - ancestry\_depth integer
  - created\_at datetime
  - id uuid PK
  - mission\_id uuid FK
  - old\_id integer
  - option\_id uuid FK
  - option\_set\_id uuid FK
  - rank integer
  - sequence integer
  - standard\_copy boolean
  - updated\_at datetime
- ResponseNode**
  - accuracy decimal (9,3)
  - altitude decimal (9,3)
  - created\_at datetime
  - date\_value date
  - datetime\_value datetime
  - id uuid PK
  - latitude decimal (8,6)
  - longitude decimal (9,6)
  - mission\_id uuid FK
  - new\_rank integer
  - old\_inst\_num integer
  - old\_rank integer
  - option\_node\_id uuid FK
  - parent\_id uuid FK
  - pending\_file\_name string
  - questioning\_id uuid FK
  - response\_id uuid FK
  - time\_value time
  - tsv tsvector
  - type string
  - updated\_at datetime
  - value text
- AnswerHierarchy**
  - ancestor\_id uuid FK
  - descendant\_id uuid FK
  - generations integer
- Choice**
  - answer\_id uuid FK
  - created\_at datetime
  - id uuid PK
  - latitude decimal (8,6)
  - longitude decimal (9,6)
  - option\_node\_id uuid FK
  - updated\_at datetime
- ResponseNodeHierarchy**
  - ancestor\_id uuid FK
  - descendant\_id uuid FK
  - generations integer
- Condition**
  - conditionable\_id uuid FK
  - conditionable\_type string
  - created\_at datetime
  - id uuid PK
  - left\_qing\_id uuid FK
  - mission\_id uuid FK
  - op string (255)
  - option\_node\_id uuid FK
  - rank integer
  - right\_qing\_id uuid FK
  - updated\_at datetime
  - value string (255)
- Constraint**
  - accept\_if string (16)
  - created\_at datetime
  - id uuid PK
  - mission\_id uuid FK
  - rank integer
  - rejection\_msg\_translations jsonb
  - source\_item\_id uuid FK
  - updated\_at datetime
- SkipRule**
  - created\_at datetime
  - dest\_item\_id uuid FK
  - destination string
  - id uuid PK
  - mission\_id uuid FK
  - rank integer
  - skip\_if string
  - source\_item\_id uuid FK
  - updated\_at datetime
- Mission**
  - compact\_name string (255)
  - created\_at datetime
  - id uuid PK
  - locked boolean
  - name string (255)
  - shortcode string (255)
  - updated\_at datetime
- UserGroup**
  - created\_at datetime
  - id uuid PK
  - mission\_id uuid FK
  - name string (255)
  - updated\_at datetime
- Report::Report**
  - aggregation\_name string (255)
  - bar\_style string (255)
  - created\_at datetime
  - creator\_id uuid FK
  - display\_qing\_id uuid
  - display\_type string (255)
  - filter text
  - form\_id uuid
  - form\_by\_tag boolean
  - id uuid PK
  - mission\_id uuid FK
  - name string (255)
  - percent\_type string (255)
  - question\_labels string (255)
  - question\_order string (255)
  - text\_responses string (255)
  - type string (255)
  - unique\_rows boolean
  - unreviewed boolean
  - updated\_at datetime
  - view\_count integer
  - viewed\_at datetime
- BroadcastAddressing**
  - addressee\_id uuid FK
  - addressee\_type string (255)
  - broadcast\_id uuid FK
  - created\_at datetime
  - id uuid PK
  - updated\_at datetime
- FormItem**
  - all\_levels\_required boolean
  - ancestry text
  - ancestry\_depth integer
  - created\_at datetime
  - default string
  - disabled boolean
  - display\_if string
  - form\_id uuid FK
  - form\_old\_id integer
  - group\_hint\_translations jsonb
  - group\_item\_name\_translations jsonb
  - group\_name\_translations jsonb
  - hidden boolean
  - mission\_id uuid FK
  - old\_id integer
  - one\_screen boolean
  - preload\_last\_saved boolean
  - question\_id uuid FK
  - question\_old\_id integer
  - rank integer
  - read\_only boolean
  - repeatable boolean
  - required boolean
  - type string (255)
  - updated\_at datetime
- Report::Calculation**
  - attr1\_name string (255)
  - created\_at datetime
  - id uuid PK
  - question1\_id uuid FK
  - rank integer
  - report\_report\_id uuid FK
  - type string (255)
  - updated\_at datetime
- Setting**
  - created\_at datetime
  - default\_outgoing\_sms\_adapter string (255)
  - frontlinecloud\_api\_key string (255)
  - generic\_sms\_config jsonb
  - id uuid PK
  - incoming\_sms\_numbers jsonb
  - incoming\_sms\_token string (255)
  - mission\_id uuid FK
  - override\_code string (255)
  - preferred\_locales jsonb
  - theme string
  - timezone string (255)
  - twilio\_account\_sid string (255)
  - twilio\_auth\_token string (255)
  - twilio\_phone\_number string (255)
  - updated\_at datetime
- Broadcast**
  - body text
  - created\_at datetime
  - id uuid PK
  - medium string (255)
  - mission\_id uuid FK
  - recipient\_selection string (255)
  - send\_errors text
  - sent\_at datetime
  - source string (255)
  - subject string (255)
  - updated\_at datetime
  - which\_phone string (255)
- Question**
  - access\_level string (255)
  - auto\_increment boolean
  - canonical\_name text
  - code string (255)
  - created\_at datetime
  - hint\_translations jsonb
  - id uuid PK
  - key boolean
  - maximum decimal (15,8)
  - maxstrictly boolean
  - metadata\_type string
  - minimum decimal (15,8)
  - minstrictly boolean
  - mission\_id uuid FK
  - name\_translations jsonb
  - option\_set\_id uuid FK
  - original\_id uuid FK
  - otype\_name string (255)
  - reference string
  - standard\_copy boolean
  - text\_for\_sms boolean
  - updated\_at datetime
- Conditionable**
- Report::OptionSetChoice**
  - id uuid PK
  - option\_set\_id uuid FK
  - report\_report\_id uuid FK
- OptionSet**
  - allow\_coordinates boolean
  - created\_at datetime
  - geographic boolean
  - id uuid PK
  - level\_names jsonb
  - mission\_id uuid FK
  - name string (255)
  - original\_id uuid FK
  - root\_node\_id uuid FK
  - sms\_guide\_formatting string (255)
  - standard\_copy boolean
  - updated\_at datetime
- ActiveStorage::Record**
- Recipient**
- Whitelistable**
- User**
  - active boolean
  - admin boolean
  - api\_key string (255)
  - birth\_year integer
  - created\_at datetime
  - current\_login\_at datetime
  - current\_password string (255)
  - email string (255)
  - experience text
  - gender string (255)
  - gender\_custom string (255)
  - id uuid PK
  - import\_num integer
  - last\_mission\_id uuid FK
  - last\_request\_at datetime
  - login string (255)
  - login\_count integer
  - name string (