

The diagram illustrates a database schema with the following models and their attributes:

- ActiveStorage::Blob**:
  - byte\_size integer (8)
  - checksum string
  - content\_type string
  - created\_at datetime
  - filename string
  - id integer (8) PK
  - key string
  - metadata text
  - service\_name string
- ActiveStorage::VariantRecord**:
  - blob\_id integer (8) FK
  - created\_at datetime
  - form\_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 integer FK
  - record\_type string
- Record**: (Abstract base class)
- Media::Object**:
  - answer\_id integer FK
  - created\_at datetime
  - id integer FK
  - type string (255)
  - updated\_at datetime
- SavedUpload**:
  - created\_at datetime
  - id integer PK
  - updated\_at datetime
- Option**:
  - canonical\_name string (255)
  - created\_at datetime
  - id integer PK
  - latitude decimal (8,6)
  - longitude decimal (8,6)
  - mission\_id integer FK
  - name\_translation 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 integer PK
  - mission\_id integer FK
  - name string (255)
  - original\_id integer FK
  - published\_changed\_at datetime
  - root\_id integer 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 integer FK
  - id integer PK
  - minimum boolean
  - number string (10)
  - updated\_at datetime
- Recipient**: (Abstract base class)
- Whitelisting**:
  - created\_at datetime
  - id integer PK
  - updated\_at datetime
  - user\_id integer FK
  - whitelisting\_id integer FK
  - whitelisting\_type string (255)
- Operation**:
  - created\_at datetime
  - creator\_id integer FK
  - details string (255)
  - id integer 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 integer 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 integer FK
  - created\_at datetime
  - device\_id string
  - dirty\_json boolean
  - form\_id integer FK
  - id integer PK
  - incomplete boolean
  - mission\_id integer FK
  - odk\_hash string (255)
  - old\_id integer
  - reviewed boolean
  - reviewer\_id integer FK
  - reviewer\_notes text
  - shortcode string (255)
  - source string (255)
  - updated\_at datetime
  - user\_id integer FK
- FormForwarding**:
  - created\_at datetime
  - form\_id integer FK
  - id integer PK
  - recipient\_id integer FK
  - recipient\_type string (255)
  - updated\_at datetime
- UserGroupAssignment**:
  - created\_at datetime
  - id integer PK
  - updated\_at datetime
  - user\_group\_id integer FK
  - user\_id integer FK
- User**:
  - active boolean
  - admin boolean
  - api\_key string (255)
  - birth\_year integer
  - created\_at datetime
  - current\_login\_at datetime
  - current\_login\_ip string (255)
  - email string (255)
  - experience text
  - gender string (255)
  - gender\_custom string (255)
  - id integer PK
  - import\_num integer
  - last\_mission\_id integer FK
  - last\_request\_at datetime
  - login string (255)
  - login\_count integer
  - name string (255)
  - nationality string (255)
  - notes text
  - password\_salt string (255)
  - persistable\_token string (255)
  - persistence\_token string (255)
  - phone string (255)
  - phone2 string (255)
  - pref\_lang string (255)
  - sms\_auth\_code string (255)
  - updated\_at datetime
- Assignment**:
  - created\_at datetime
  - id integer PK
  - mission\_id integer FK
  - role string (255)
  - updated\_at datetime
  - user\_id integer FK
- Sms::Message**:
  - adapter\_name string (255)
  - auth\_failed boolean
  - body text
  - broadcast\_id integer
  - created\_at datetime
  - from string (255)
  - id integer PK
  - mission\_id integer FK
  - reply\_error\_message string
  - reply\_to\_id integer
  - sent\_at datetime
  - to string (255)
  - type string (255)
  - updated\_at datetime
  - user\_id integer FK
- Tag**:
  - created\_at datetime
  - id integer PK
  - mission\_id integer FK
  - name string (64)
  - updated\_at datetime
- OptionNode**:
  - ancestry text
  - ancestry\_depth integer
  - created\_at datetime
  - id integer PK
  - mission\_id integer FK
  - old\_id integer
  - option\_id integer FK
  - option\_set\_id integer FK
  - original\_id integer FK
  - rank integer
  - sequence integer
  - standard\_copy boolean
  - updated\_at datetime
- Tagging**:
  - created\_at datetime
  - id integer PK
  - question\_id integer FK
  - tag\_id integer FK
  - updated\_at datetime
- ResponseNode**:
  - accuracy decimal (9,3)
  - altitude decimal (9,3)
  - created\_at datetime
  - date\_value date
  - datetime\_value datetime
  - id integer PK
  - latitude decimal (8,6)
  - longitude decimal (8,6)
  - mission\_id integer FK
  - new\_rank integer
  - old\_inst\_num integer
  - old\_rank integer
  - option\_node\_id integer FK
  - parent\_id integer FK
  - pending\_file\_name string (255)
  - questioning\_id integer FK
  - response\_id integer FK
  - time\_value time
  - tsv tsvector
  - type string
  - updated\_at datetime
  - value text
- Condition**:
  - conditionable\_id integer FK
  - conditionable\_type string
  - created\_at datetime
  - id integer PK
  - left\_qing\_id integer FK
  - parent\_id integer FK
  - pending\_file\_name string (255)
  - questioning\_id integer FK
  - right\_qing\_id integer FK
  - updated\_at datetime
  - value string (255)
- Constraint**:
  - accept\_if string (16)
  - created\_at datetime
  - id integer PK
  - mission\_id integer FK
  - rank integer
  - rejection\_msg\_translation string
  - source\_item\_id integer FK
  - updated\_at datetime
- SkipRule**:
  - created\_at datetime
  - dest\_item\_id integer FK
  - destination string
  - id integer PK
  - mission\_id integer FK
  - rank integer
  - skip\_if string
  - source\_item\_id integer FK
  - 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 integer FK
  - form\_old\_id integer
  - group\_hint\_translations jsonb
  - group\_item\_name\_translations jsonb
  - group\_name\_translations jsonb
  - hidden boolean
  - id integer PK
  - mission\_id integer FK
  - old\_id integer
  - one\_screen boolean
  - preload\_last\_saved boolean
  - question\_id integer FK
  - question\_old\_id integer
  - rank integer
  - read\_only boolean
  - repeatable boolean
  - required boolean
  - type string (255)
  - updated\_at datetime
- Report::Report**:
  - aggregation\_name string (255)
  - bar\_style string (255)
  - created\_at datetime
  - creator\_id integer FK
  - disagg\_qing\_id integer FK
  - display\_type string (255)
  - filter text
  - form\_id integer FK
  - group\_by\_tag boolean
  - id integer PK
  - mission\_id integer 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 integer FK
  - addressee\_type string (255)
  - broadcast\_id integer FK
  - created\_at datetime
  - id integer PK
  - updated\_at datetime
- Setting**:
  - created\_at datetime
  - default\_outgoing\_sms\_adapter string (255)
  - frontlinecloud\_api\_key string (255)
  - generic\_sms\_config jsonb
  - id integer PK
  - incoming\_sms\_numbers jsonb
  - incoming\_sms\_token string (255)
  - mission\_id integer FK
  - override\_code string (255)
  - preferred\_locale 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 integer PK
  - medium string (255)
  - mission\_id integer FK
  - recipient\_selection string (255)
  - send\_errors text
  - sent\_at datetime
  - source string (255)
  - subject string (255