

```

classDiagram
    class User {
        active boolean
        admin boolean
        birth_year integer
        created_at datetime(6,0)
        crypted_password string(255)
        current_login_at datetime(6,0)
        editor_preference string
        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(6,0)
        login string(255) U
        login_count integer
        name string(255)
        nationality string(255)
        notes text
        password_salt string(255)
        perishable_token string(255) U
        persistence_token string(255) U
        phone string(255)
        phone2 string(255)
        pref_lang string(255)
        sms_auth_code string(255)
        updated_at datetime(6,0)
    }

    class Mission {
        compact_name string(255)
        created_at datetime(6,0)
        id uuid PK
        locked boolean
        name string(255)
        shortcode string(255)
        updated_at datetime(6,0)
    }

    class Operation {
        created_at datetime(6,0)
        creator_id uuid FK
        details string(255)
        id uuid PK
        job_class string(255)
        job_completed_at datetime(6,0)
        job_error_report text
        job_failed_at datetime(6,0)
        job_id string(255)
        job_started_at datetime(6,0)
        mission_id uuid FK
        notes string(255)
        provider_job_id string(255)
        unread boolean
        updated_at datetime(6,0)
        uri string
    }

    class Broadcast {
        body text
        created_at datetime(6,0)
        id uuid PK
        medium string(255)
        mission_id uuid FK
        recipient_selection string(255)
        send_errors text
        sent_at datetime(6,0)
        source string(255)
        subject string(255)
        updated_at datetime(6,0)
        which_phone string(255)
    }

    class Form {
        access_level string(255)
        allow_incomplete boolean
        authenticate_sms boolean
        created_at datetime(6,0)
        default_response_name string
        downloads integer
        id uuid PK
        mission_id uuid FK
        name string(255)
        original_id uuid FK
        published_changed_at datetime(6,0)
        root_id uuid FK
        sms_relay boolean
        smsable boolean
        standard_copy boolean
        status string
        updated_at datetime(6,0)
    }

    class FormVersion {
        code string(255)
        created_at datetime(6,0)
        id uuid PK
        current boolean
        form_id uuid FK
        id uuid PK
        minimum boolean
        number string(10)
        updated_at datetime(6,0)
    }

    class FormItem {
        all_levels_required boolean
        ancestry text
        ancestry_depth integer
        created_at datetime(6,0)
        default string
        disabled boolean
        display_if string
        form_id uuid FK
        form_old_id integer
        group_hint_translations jsonb
        group_item_name_translations jsonb
        hidden boolean
        id uuid PK
        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
        repeat_count_qing_id uuid FK
        repeatable boolean
        required boolean
        type string(255)
        updated_at datetime(6,0)
    }

    class Option {
        canonical_name string(255)
        created_at datetime(6,0)
        id uuid FK
        latitude decimal(8,6)
        longitude decimal(9,6)
        mission_id uuid FK
        name_translations jsonb
        updated_at datetime(6,0)
        value integer
    }

    class OptionNode {
        ancestry text
        ancestry_depth integer
        created_at datetime(6,0)
        id uuid PK
        mission_id uuid FK
        old_id integer
        option_id uuid FK
        option_set_id uuid FK
        original_id uuid FK
        rank integer
        sequence integer
        standard_copy boolean
        updated_at datetime(6,0)
    }

    class OptionSet {
        allow_coordinates boolean
        created_at datetime(6,0)
        geographic boolean
        id uuid PK
        level_names jsonb
        mission_id uuid FK
        name string(255) U
        original_id uuid FK
        root_node_id uuid FK
        sms_guide_formatting string(255)
        standard_copy boolean
        updated_at datetime(6,0)
    }

    class Assignment {
        created_at datetime(6,0)
        id uuid PK
        mission_id uuid FK
        role string(255)
        updated_at datetime(6,0)
        user_id uuid FK
    }

    class UserGroup {
        created_at datetime(6,0)
        id uuid PK
        mission_id uuid FK
        name string(255) U
        updated_at datetime(6,0)
    }

    class UserGroupAssignment {
        created_at datetime(6,0)
        id uuid PK
        updated_at datetime(6,0)
        user_group_id uuid FK
        user_id uuid FK
    }

    class BroadcastAddressing {
        addressee_id uuid FK
        addressee_type string(255)
        broadcast_id uuid FK
        created_at datetime(6,0)
        id uuid PK
        updated_at datetime(6,0)
    }

    class Response {
        cached_json jsonb
        checked_out_at datetime(6,0)
        checked_out_by_id uuid FK
        created_at datetime(6,0)
        device_id string
        dirty_dupes boolean
        dirty_json boolean
        form_id uuid FK
        id uuid PK
        incomplete boolean
        mission_id uuid FK
        modifier string
        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(6,0)
        user_id uuid FK
    }

    class ResponseNode {
        accuracy decimal(8,3)
        altitude decimal(9,3)
        created_at datetime(6,0)
        date_value date
        datetime_value datetime(6,0)
        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(6,0)
        value text
    }

    class SkipRule {
        created_at datetime(6,0)
        dest_item_id uuid FK
        destination string
        id uuid PK
        mission_id uuid FK
        skip_if string
        source_item_id uuid FK
        updated_at datetime(6,0)
    }

    class Condition {
        conditionable_id uuid FK
        conditionable_type string
        created_at datetime(6,0)
        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(6,0)
        value string(255)
    }

    class Constraint {
        accept_if string(255)
        created_at datetime(6,0)
        id uuid PK
        mission_id uuid FK
        rank integer
        rejection_msg_translations jsonb
        source_item_id uuid FK
        updated_at datetime(6,0)
    }

    class Report_Report {
        aggregation_name string(255)
        bar_style string(255)
        created_at datetime(6,0)
        creator_id uuid FK
        display_qing_id uuid FK
        display_type string(255)
        filter text
        form_id uuid FK
        group_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(6,0)
        view_count integer
        viewed_at datetime(6,0)
    }

    class Report_Calculation {
        attrib1_name string(255)
        created_at datetime(6,0)
        id uuid PK
        question_id uuid FK
        rank integer
        report_report_id uuid FK
        type string(255)
        updated_at datetime(6,0)
    }

    class Report_OptionSetChoice {
        id uuid PK
        option_set_id uuid FK
        report_report_id uuid FK
    }

    class Question {
        access_level string(255)
        auto_increment boolean
        canonical_name text
        code string(255)
        created_at datetime(6,0)
        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
        qtype string(255)
        reference string
        standard_copy boolean
        text_type_for_sms boolean
        updated_at datetime(6,0)
    }

    class Tag {
        created_at datetime(6,0)
        id uuid PK
        mission_id uuid FK
        name string(64)
        updated_at datetime(6,0)
    }

    class Tagging {
        created_at datetime(6,0)
        id uuid PK
        question_id uuid FK
        tag_id uuid FK
        updated_at datetime(6,0)
    }

    class Setting {
        created_at datetime(6,0)
        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(6,0)
    }

    class ActiveStorage_Record {
        blob_id integer(8) FK
        id integer(8) PK
        variation_digest string
    }

    class ActiveStorage_VariantRecord {
        blob_id integer(8) FK
        id integer(8) PK
        variation_digest string
    }

    class ActiveStorage_Blob {
        byte_size integer(8)
        checksum string
        content_type string
        created_at datetime(6,0)
        filename string
        id integer(8) PK
        key string
        metadata text
        service_name string
    }

    class Media_Object {
        answer_id uuid FK
        created_at datetime(6,0)
        id uuid PK
        type string(255)
        updated_at datetime(6,0)
    }

    class SavedUpload {
        created_at datetime(6,0)
        id uuid PK
        updated_at datetime(6,0)
    }

    class Addresssee
    class Recipient
    class Conditionable

    User --> Mission
    User --> Operation
    User --> Broadcast
    User --> Form
    User --> FormVersion
    User --> FormItem
    User --> Option
    User --> OptionNode
    User --> OptionSet
    User --> Assignment
    User --> UserGroup
    User --> UserGroupAssignment
    User --> BroadcastAddressing
    User --> Response
    User --> ResponseNode
    User --> SkipRule
    User --> Condition
    User --> Constraint
    User --> Report_Report
    User --> Report_Calculation
    User --> Report_OptionSetChoice
    User --> Question
    User --> Tag
    User --> Tagging
    User --> Setting

    Mission --> Operation
    Mission --> Broadcast
    Mission --> Form
    Mission --> FormVersion
    Mission --> FormItem
    Mission --> Option
    Mission --> OptionNode
    Mission --> OptionSet
    Mission --> Assignment
    Mission --> UserGroup
    Mission --> UserGroupAssignment
    Mission --> BroadcastAddressing
    Mission --> Response
    Mission --> ResponseNode
    Mission --> SkipRule
    Mission --> Condition
    Mission --> Constraint
    Mission --> Report_Report
    Mission --> Report_Calculation
    Mission --> Report_OptionSetChoice
    Mission --> Question
    Mission --> Tag
    Mission --> Tagging
    Mission --> Setting

    Operation --> Broadcast
    Operation --> Form
    Operation --> FormVersion
    Operation --> FormItem
    Operation --> Option
    Operation --> OptionNode
    Operation --> OptionSet
    Operation --> Assignment
    Operation --> UserGroup
    Operation --> UserGroupAssignment
    Operation --> BroadcastAddressing
    Operation --> Response
    Operation --> ResponseNode
    Operation --> SkipRule
    Operation --> Condition
    Operation --> Constraint
    Operation --> Report_Report
    Operation --> Report_Calculation
    Operation --> Report_OptionSetChoice
    Operation --> Question
    Operation --> Tag
    Operation --> Tagging
    Operation --> Setting

    Broadcast --> Form
    Broadcast --> FormVersion
    Broadcast --> FormItem
    Broadcast --> Option
    Broadcast --> OptionNode
    Broadcast --> OptionSet
    Broadcast --> Assignment
    Broadcast --> UserGroup
    Broadcast --> UserGroupAssignment
    Broadcast --> BroadcastAddressing
    Broadcast --> Response
    Broadcast --> ResponseNode
    Broadcast --> SkipRule
    Broadcast --> Condition
    Broadcast --> Constraint
    Broadcast --> Report_Report
    Broadcast --> Report_Calculation
    Broadcast --> Report_OptionSetChoice
    Broadcast --> Question
    Broadcast --> Tag
    Broadcast --> Tagging
    Broadcast --> Setting

    Form --> FormVersion
    Form --> FormItem
    Form --> Option
    Form --> OptionNode
    Form --> OptionSet
    Form --> Assignment
    Form --> UserGroup
    Form --> UserGroupAssignment
    Form --> BroadcastAddressing
    Form --> Response
    Form --> ResponseNode
    Form --> SkipRule
    Form --> Condition
    Form --> Constraint
    Form --> Report_Report
    Form --> Report_Calculation
    Form --> Report_OptionSetChoice
    Form --> Question
    Form --> Tag
    Form --> Tagging
    Form --> Setting

    FormVersion --> FormItem
    FormVersion --> Option
    FormVersion --> OptionNode
    FormVersion --> OptionSet
    FormVersion --> Assignment
    FormVersion --> UserGroup
    FormVersion --> UserGroupAssignment
    FormVersion --> BroadcastAddressing
    FormVersion --> Response
    FormVersion --> ResponseNode
    FormVersion --> SkipRule
    FormVersion --> Condition
    FormVersion --> Constraint
    FormVersion --> Report_Report
    FormVersion --> Report_Calculation
```

