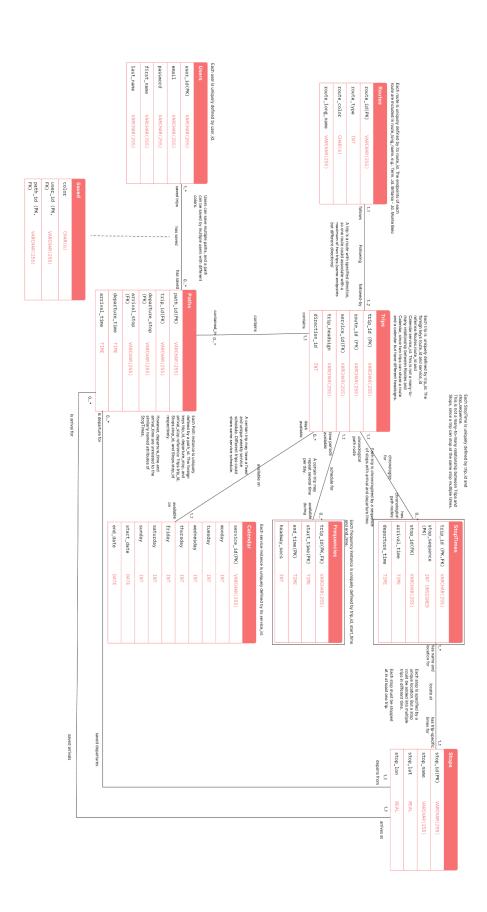
UML



Schema

Note: the INT values in Calendar and Trips can only be 0 or 1 in our dataset, but in general GTFS data they could have other values, hence INT

```
Routes (
      route id: VARCHAR(255) [PK],
      route type: INT,
      route color: CHAR(6),
      route long name: VARCHAR(255)
Stops (
      stop id: VARCHAR(255) [PK],
      stop name: VARCHAR(255),
      stop lat: REAL,
      stop lon: REAL
Calendar(
      service id: VARCHAR(255) [PK],
      monday: INT,
      tuesday: INT,
      wednesday: INT,
      thursday: INT,
      friday: INT,
      saturday: INT,
      sunday: INT,
      start date: DATE,
      end date: DATE
Frequencies (
      trip id: VARCHAR(255) [PK, FK to Trips.trip id],
      start time: TIME [PK],
      end time: TIME [PK],
      headway secs: INT
)
Trips(
      trip id: VARCHAR(255) [PK],
      route id: VARCHAR(255) [FK to Routes.route_id],
      service id: VARCHAR(255) [FK to Calendar.service id],
      trip_headsign: VARCHAR(255),
      direction id: INT
StopTimes (
      trip id: VARCHAR(255) [PK, FK to Trips.trip id],
      stop sequence: INT UNSIGNED [PK],
      stop id: VARCHAR(255) [FK to Stops.stop id],
      arrival time: TIME,
      departure time: TIME
)
```

```
Users(
      user_id: VARCHAR(255) [PK],
      email: VARCHAR(255),
      password: VARCHAR(255),
      first name: VARCHAR(255),
      last name: VARCHAR(255)
Paths (
      path id: VARCHAR(255) [PK],
      trip id: VARCHAR(255) [FK to Trips.trip id],
      departure stop: VARCHAR(255) [FK to Stops.stop id],
      arrival stop: VARCHAR(255) [FK to Stops.stop id],
      departure time: TIME,
      arrival time: TIME,
)
Saved(
      user id: VARCHAR(255) [PK, FK to Users.user id],
      path_id: VARCHAR(255) [PK, FK to Path.path_id],
      color: CHAR(6)
)
```