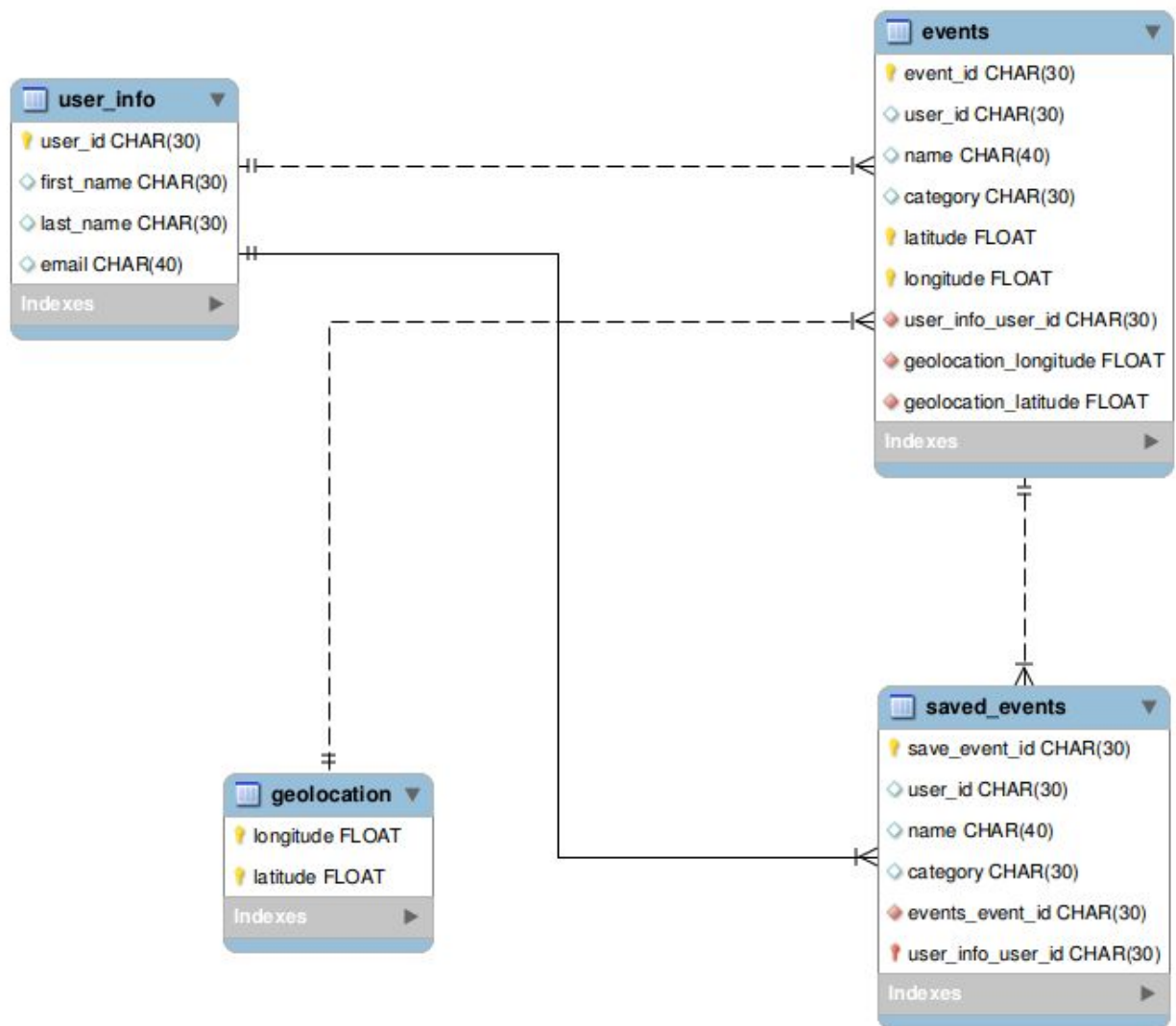


Project Milestone 3
Yogitha's A-Team

DBMS: mySQL

Our database will integrate four tables, consisting of: username, events, saved events and geolocation. The username table consists of the user's email, name, and an id which will be taken from the initial log in to Facebook. The events and saved events table consists of basic event information such as name, category, date, and the location (latitude and longitude). The geolocation table will store the geolocation of the user at the current time. The user id is the primary key used to create relations between the user and their events and geolocation. The ER diagram and script used to build our database are shown below.



Database Build Script

```
SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0;
SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='TRADITIONAL,ALLOW_INVALID_DATES';
```

```
DROP SCHEMA IF EXISTS `Project` ;
```

```
CREATE SCHEMA IF NOT EXISTS `Project` DEFAULT CHARACTER SET latin1 ;
USE `Project` ;
```

```
-----
-- Table `Project`.`user_info`
-----
```

```
CREATE TABLE IF NOT EXISTS `Project`.`user_info` (
  `user_id` CHAR(30) NOT NULL,
  `first_name` CHAR(30) NULL DEFAULT NULL,
  `last_name` CHAR(30) NULL DEFAULT NULL,
  `email` CHAR(40) NULL DEFAULT NULL,
  PRIMARY KEY (`user_id`))
ENGINE = InnoDB
DEFAULT CHARACTER SET = latin1;
```

```
-----
-- Table `Project`.`geolocation`
-----
```

```
CREATE TABLE IF NOT EXISTS `Project`.`geolocation` (
  `longitude` FLOAT NOT NULL,
  `latitude` FLOAT NOT NULL,
  PRIMARY KEY (`longitude`, `latitude`))
ENGINE = InnoDB
DEFAULT CHARACTER SET = latin1;
```

```
-----
-- Table `Project`.`events`
-----
```

```
CREATE TABLE IF NOT EXISTS `Project`.`events` (
```

```

`event_id` CHAR(30) NOT NULL,
`user_id` CHAR(30) NULL DEFAULT NULL,
`name` CHAR(40) NULL DEFAULT NULL,
`category` CHAR(30) NULL DEFAULT NULL,
`latitude` FLOAT NOT NULL,
`longitude` FLOAT NOT NULL,
`user_info_user_id` CHAR(30) NOT NULL,
`geolocation_longitude` FLOAT NOT NULL,
`geolocation_latitude` FLOAT NOT NULL,
PRIMARY KEY (`event_id`, `latitude`, `longitude`),
INDEX `fk_events_user_info_idx` (`user_info_user_id` ASC),
INDEX `fk_events_geolocation1_idx` (`geolocation_longitude` ASC, `geolocation_latitude`
ASC),
CONSTRAINT `fk_events_user_info`
    FOREIGN KEY (`user_info_user_id`)
    REFERENCES `Project`.`user_info` (`user_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
CONSTRAINT `fk_events_geolocation1`
    FOREIGN KEY (`geolocation_longitude`, `geolocation_latitude`)
    REFERENCES `Project`.`geolocation` (`longitude`, `latitude`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = latin1;

```

```

-----
-- Table `Project`.`saved_events`
-----

```

```

CREATE TABLE IF NOT EXISTS `Project`.`saved_events` (
  `save_event_id` CHAR(30) NOT NULL,
  `user_id` CHAR(30) NULL DEFAULT NULL,
  `name` CHAR(40) NULL DEFAULT NULL,
  `category` CHAR(30) NULL DEFAULT NULL,
  `events_event_id` CHAR(30) NOT NULL,
  `user_info_user_id` CHAR(30) NOT NULL,
  PRIMARY KEY (`save_event_id`, `user_info_user_id`),
  INDEX `fk_saved_events_events1_idx` (`events_event_id` ASC),
  INDEX `fk_saved_events_user_info1_idx` (`user_info_user_id` ASC),
  CONSTRAINT `fk_saved_events_events1`
    FOREIGN KEY (`events_event_id`)
    REFERENCES `Project`.`events` (`event_id`)

```

```
        ON DELETE NO ACTION
        ON UPDATE NO ACTION,
CONSTRAINT `fk_saved_events_user_info1`
    FOREIGN KEY (`user_info_user_id`)
    REFERENCES `Project`.`user_info` (`user_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = latin1;
```

```
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```