

**Team 1**  
**Project Part 2**  
**Database Schema**

## Tables

### Point

- id INT UNSIGNED AUTO\_INCREMENT PRIMARY KEY
  - Id to uniquely identify the point
- lat DECIMAL(8, 6) NOT NULL
  - Latitude of the point
- lng DECIMAL(9, 6) NOT NULL
  - Longitude of the point
- short\_desc VARCHAR(140) NOT NULL
  - Short description to show at a glance
- desc TEXT NOT NULL
  - Longer more detailed description about the point
- year YEAR NOT NULL
  - Year the item depicts *historically*
- submitted\_on DATE NOT NULL
  - Date the user submitted the item
- submitter\_name VARCHAR(255) NOT NULL
  - Name of the submitter
- submitter\_ip VARBINARY(16) NOT NULL
  - IP address of the user; optional, but would help w/ spam analysis
- has an image* -- primary image
  - Image of the document or photo
- has many images*
  - Other images of the document or photo
- has many comments*
  - Comments from the user regarding the document or photo

### Image

- url VARCHAR(512) NOT NULL
    - URL of the photo
  - orig\_name VARCHAR(128) NOT NULL
    - Original upload name of the photo
- belongs to a point*

## Comment

id INT UNSIGNED AUTO\_INCREMENT PRIMARY KEY

- ID of the comment to uniquely identify it

parent INT UNSIGNED

- Parent comment, if any

submitter\_name VARCHAR(255) NOT NULL

- Submitter's name

body TEXT NOT NULL

- Actual comment from the user

submitter\_ip VARBINARY(16) NOT NULL

- Comment's ip address; optional, but would help w/ spam analysis

*belongs to a point*

## Creation

### Point

```
CREATE TABLE points(id INT UNSIGNED AUTO_INCREMENT PRIMARY KEY, lat DECIMAL(8, 6) NOT NULL, lng DECIMAL(9, 6) NOT NULL, short_desc VARCHAR(140) NOT NULL, desc TEXT NOT NULL, year YEAR NOT NULL, submitter_name VARCHAR(255) NOT NULL, submitter_ip VARBINARY(16) NOT NULL, primary_image INT UNSIGNED NOT NULL);
```

### Image

```
CREATE TABLE images(id INT UNSIGNED, url VARCHAR(512) NOT NULL, orig_name VARCHAR(128) NOT NULL, point INT UNSIGNED NOT NULL);
```

### Comment

```
CREATE TABLE comments(id INT UNSIGNED, parent INT UNSIGNED, submitter_name VARCHAR(255) NOT NULL, body TEXT NOT NULL, submitter_ip VARBINARY(16) NOT NULL, point INT UNSIGNED NOT NULL);
```