



file structure:
/ galleries / gallery_id / image_name

example:
/ galleries / 101 / tree.jpg

```
CREATE DATABASE IF NOT EXISTS `database_name`  
CHARACTER SET utf8mb4  
COLLATE utf8mb4_unicode_ci;
```

```
CREATE TABLE IF NOT EXISTS `users`  
(  
  `username` VARCHAR(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL,  
  `password` VARCHAR(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL,  
  PRIMARY KEY (`username`) USING BTREE  
) ENGINE = InnoDB;
```

```
CREATE TABLE IF NOT EXISTS `galleries`  
(  
  `username` VARCHAR(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL,  
  `gallery_id` INT NOT NULL AUTO_INCREMENT,  
  `gallery_name` VARCHAR(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL,  
  `gallery_description` VARCHAR(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NULL DEFAULT NULL,  
  PRIMARY KEY (`gallery_id`) USING HASH,  
  FOREIGN KEY (`username`) REFERENCES `users`(`username`) ON DELETE RESTRICT ON UPDATE RESTRICT,  
  INDEX (`username`) USING BTREE  
) ENGINE = InnoDB AUTO_INCREMENT=1;
```

```
CREATE TABLE IF NOT EXISTS `images`  
(  
  `gallery_id` INT NOT NULL,  
  `image_id` INT NOT NULL AUTO_INCREMENT,  
  `image_name` VARCHAR(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL,  
  `image_description` VARCHAR(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NULL DEFAULT NULL,  
  PRIMARY KEY (`image_id`) USING HASH,  
  FOREIGN KEY (`gallery_id`) REFERENCES `galleries`(`gallery_id`) ON DELETE RESTRICT ON UPDATE RESTRICT,  
  UNIQUE KEY `image_file_path` (`gallery_id`, `image_name`),  
  INDEX (`gallery_id`) USING HASH  
) ENGINE = InnoDB AUTO_INCREMENT=1;
```

```
CREATE TABLE IF NOT EXISTS `comments`  
(  
  `image_id` INT NOT NULL,  
  `username` VARCHAR(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL,  
  `comment_id` INT NOT NULL AUTO_INCREMENT,  
  `comment_text` VARCHAR(500) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL,  
  PRIMARY KEY (`comment_id`) USING HASH,  
  FOREIGN KEY (`image_id`) REFERENCES `images`(`image_id`) ON DELETE RESTRICT ON UPDATE RESTRICT,  
  FOREIGN KEY (`username`) REFERENCES `users`(`username`) ON DELETE RESTRICT ON UPDATE RESTRICT,  
  INDEX (`image_id`) USING HASH,  
  INDEX (`username`) USING BTREE  
) ENGINE = InnoDB AUTO_INCREMENT=1;
```