

Fakulta informatiky a informačných
technológií STU v Bratislave

Beshket

Database Model

Mobilné technológie a aplikácie

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Tables

1. Users

- This table holds information about users which are already registered. Users have the ability to change, delete or create information to be put into the database.

2. Events

- Table used to store information about the events that are ongoing or upcoming. Links between events and tickets, chats, and images.

3. Tickets

- Table used to store information about user tickets. Links between tickets and events, and users.

4. Chats

- Table which keeps information about chats within the application. Links Chats and events, and users by ID.

5. Messages

- Messages table keeps information about all the messages users have sent. Links messages and chats by id.

6. Images

- Images table stores all pictures used in the application. Links images with events, users, by ID.

USERS

```
CREATE TABLE "users"(  
  "id" UUID PRIMARY KEY NOT NULL,  
  "firstname" VARCHAR(100) NOT NULL,  
  "lastname" VARCHAR(100) NOT NULL,  
  "image_id" UUID,  
  "email" VARCHAR(255) UNIQUE NOT NULL,  
  "password" BYTEA NOT NULL,  
  "born_at" DATE NOT NULL,  
  "isInterpret" bool NOT NULL,  
  "created_at" timestamp with time zone NOT NULL,  
  "updated_at" timestamp with time zone NOT NULL,  
  "deleted_at" timestamp with time zone  
);
```

EVENTS

```
CREATE TABLE "events"(
  "id" UUID PRIMARY KEY NOT NULL,
  "name" VARCHAR(100) NOT NULL,
  "image_id" UUID,
  "interpret_id" UUID NOT NULL,
  "place" VARCHAR(100) NOT NULL,
  "date" DATE NOT NULL,
  "price" DECIMAL NOT NULL,
  "detail" TEXT NOT NULL,
  "created_at" timestamp with time zone NOT NULL,
  "updated_at" timestamp with time zone NOT NULL,
  "deleted_at" timestamp with time zone
);
```

TICKETS

```
CREATE TABLE "tickets"(
  "id" UUID PRIMARY KEY NOT NULL,
  "owner_id" UUID NOT NULL,
  "event_id" UUID NOT NULL,
  "qr_code" BYTEA NOT NULL,
  "privilege" TEXT,
  "created_at" timestamp with time zone NOT NULL,
  "updated_at" timestamp with time zone NOT NULL,
  "deleted_at" timestamp with time zone
);
```

CHATS

```
CREATE TABLE "chats"(
  "id" UUID PRIMARY KEY NOT NULL,
  "owner_id" UUID NOT NULL,
  "event_id" UUID NOT NULL,
  "name" varchar(32) NOT NULL,
```

```
        "description" varchar(255),

        "created_at" timestamp with time zone NOT NULL,

        "updated_at" timestamp with time zone NOT NULL,

        "deleted_at" timestamp with time zone

    );
```

MESSAGES

```
CREATE TABLE "messages"(

    "id" UUID PRIMARY KEY NOT NULL,

    "owner_id" UUID NOT NULL,

    "chat_id" UUID NOT NULL,

    "text" TEXT NOT NULL,

    "created_at" timestamp with time zone NOT NULL,

    "updated_at" timestamp with time zone NOT NULL,

    "deleted_at" timestamp with time zone

);
```

IMAGES

```
CREATE TABLE "images"(

    "id" UUID PRIMARY KEY NOT NULL,

    "url" TEXT NOT NULL,

    "event_id" UUID,

    "created_at" timestamp with time zone NOT NULL,

    "updated_at" timestamp with time zone NOT NULL,

    "deleted_at" timestamp with time zone

);
```

Init SQL for the Database

```
CREATE TABLE "images"(
    "id" UUID PRIMARY KEY NOT NULL,
    "url" TEXT NOT NULL,
    "event_id" UUID,
    "created_at" timestamp with time zone NOT NULL,
    "updated_at" timestamp with time zone NOT NULL,
    "deleted_at" timestamp with time zone
```

```
);
```

```
CREATE TABLE "chats"(  
  "id" UUID PRIMARY KEY NOT NULL,  
  "owner_id" UUID NOT NULL,  
  "event_id" UUID NOT NULL,  
  "name" varchar(32) NOT NULL,  
  "description" varchar(255),  
  "created_at" timestamp with time zone NOT NULL,  
  "updated_at" timestamp with time zone NOT NULL,  
  "deleted_at" timestamp with time zone  
);
```

```
CREATE TABLE "users"(  
  "id" UUID PRIMARY KEY NOT NULL,  
  "firstname" VARCHAR(100) NOT NULL,  
  "lastname" VARCHAR(100) NOT NULL,  
  "image_id" UUID,  
  "email" VARCHAR(255) UNIQUE NOT NULL,  
  "password" BYTEA NOT NULL,  
  "born_at" DATE NOT NULL,  
  "isInterpret" bool NOT NULL,  
  "created_at" timestamp with time zone NOT NULL,  
  "updated_at" timestamp with time zone NOT NULL,  
  "deleted_at" timestamp with time zone  
);
```

```
CREATE TABLE "events"(  
  "id" UUID PRIMARY KEY NOT NULL,  
  "name" VARCHAR(100) NOT NULL,  
  "image_id" UUID,  
  "interpret_id" UUID NOT NULL,  
  "place" VARCHAR(100) NOT NULL,  
  "date" DATE NOT NULL,  
  "price" DECIMAL NOT NULL,  
  "detail" TEXT NOT NULL,  
  "created_at" timestamp with time zone NOT NULL,  
  "updated_at" timestamp with time zone NOT NULL,  
  "deleted_at" timestamp with time zone  
);
```

```
CREATE TABLE "messages"(  
  "id" UUID PRIMARY KEY NOT NULL,  
  "owner_id" UUID NOT NULL,  
  "chat_id" UUID NOT NULL,
```

```

    "text" TEXT NOT NULL,
    "created_at" timestamp with time zone NOT NULL,
    "updated_at" timestamp with time zone NOT NULL,
    "deleted_at" timestamp with time zone
);

CREATE TABLE "tickets"(
    "id" UUID PRIMARY KEY NOT NULL,
    "owner_id" UUID NOT NULL,
    "event_id" UUID NOT NULL,
    "qr_code" BYTEA NOT NULL,
    "privilege" TEXT,
    "created_at" timestamp with time zone NOT NULL,
    "updated_at" timestamp with time zone NOT NULL,
    "deleted_at" timestamp with time zone
);

ALTER TABLE tickets ADD FOREIGN KEY(owner_id) REFERENCES users(id);
ALTER TABLE tickets ADD FOREIGN KEY(event_id) REFERENCES events(id);

ALTER TABLE images ADD FOREIGN KEY(event_id) REFERENCES events(id);

ALTER TABLE chats ADD FOREIGN KEY(event_id) REFERENCES events(id);
ALTER TABLE chats ADD FOREIGN KEY(owner_id) REFERENCES users(id);

ALTER TABLE users ADD FOREIGN KEY(image_id) REFERENCES images(id);

ALTER TABLE events ADD FOREIGN KEY(image_id) REFERENCES images(id);
ALTER TABLE events ADD FOREIGN KEY(interpret_id) REFERENCES users(id);

ALTER TABLE messages ADD FOREIGN KEY(owner_id) REFERENCES users(id);
ALTER TABLE messages ADD FOREIGN KEY(chat_id) REFERENCES chats(id);

```

