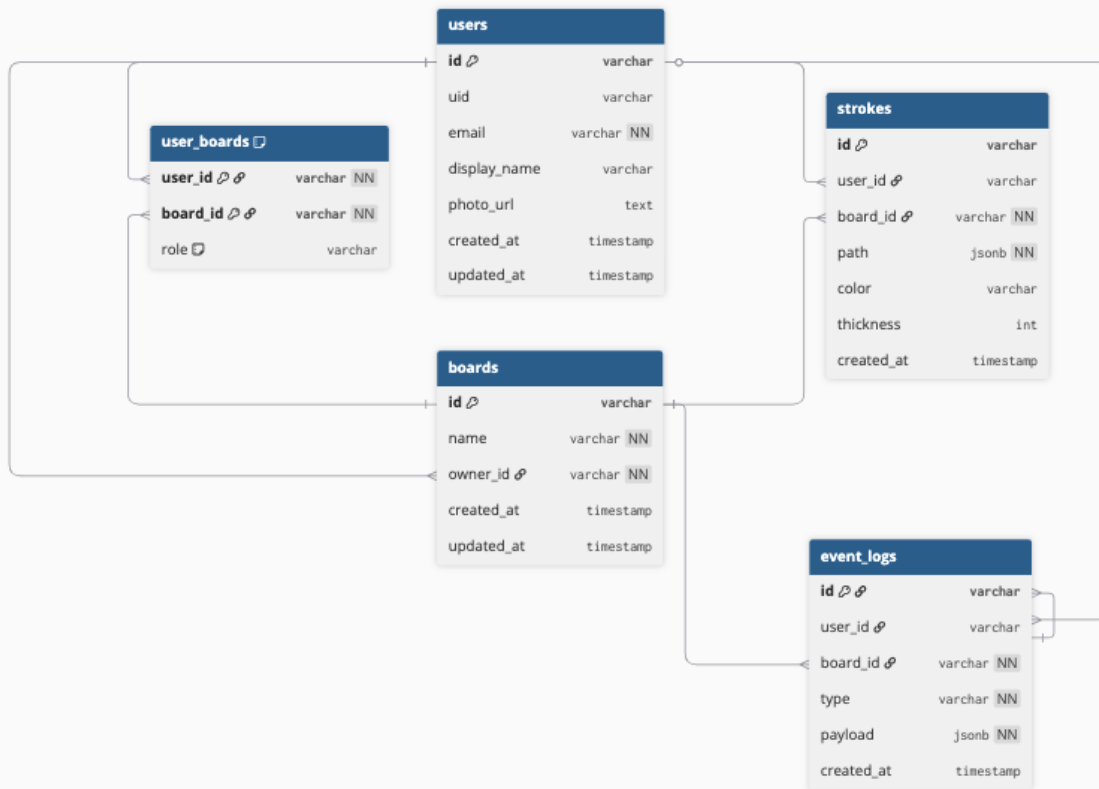


# DATABASE SCHEMA



```
-- User table
CREATE TABLE users (
id VARCHAR(50) PRIMARY KEY,
uid VARCHAR(50) PRIMARY KEY,
email VARCHAR(255) UNIQUE NOT NULL,
display_name VARCHAR(255),
photo_url TEXT,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

```
-- Board table
CREATE TABLE boards (
id VARCHAR(50) PRIMARY KEY,
name VARCHAR(255) NOT NULL,
owner_id VARCHAR(50) NOT NULL,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
```

```
updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
CONSTRAINT fk_board_owner FOREIGN KEY (owner_id) REFERENCES users(id) ON DELETE CASCADE  
);
```

*-- UserBoard relation (many-to-many between users and boards)*

```
CREATE TABLE user_boards (  
  user_id VARCHAR(50) NOT NULL,  
  board_id VARCHAR(50) NOT NULL,  
  role VARCHAR(50) DEFAULT 'editor',  
  PRIMARY KEY (user_id, board_id),  
  CONSTRAINT fk_userboard_user FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE,  
  CONSTRAINT fk_userboard_board FOREIGN KEY (board_id) REFERENCES boards(id) ON DELETE CASCADE  
);
```

*-- Stroke table (drawing actions)*

```
CREATE TABLE strokes (  
  id VARCHAR(50) PRIMARY KEY,  
  board_id VARCHAR(50) NOT NULL,  
  user_id VARCHAR(50) NOT NULL,  
  path JSONB NOT NULL, -- list of points  
  color VARCHAR(50),  
  thickness INT,  
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
  CONSTRAINT fk_stroke_board FOREIGN KEY (board_id) REFERENCES boards(id) ON DELETE CASCADE,  
  CONSTRAINT fk_stroke_user FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE SET NULL  
);
```

*-- EventLog table (for undo/redo and auditing)*

```
CREATE TABLE event_logs (  
  id VARCHAR(50) PRIMARY KEY,  
  board_id VARCHAR(50) NOT NULL,  
  user_id VARCHAR(50),  
  type VARCHAR(50) NOT NULL, -- draw, erase, undo, redo, cursor_move, etc.  
  payload JSONB NOT NULL,  
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
  CONSTRAINT fk_eventlog_board FOREIGN KEY (board_id) REFERENCES boards(id) ON DELETE CASCADE,  
  CONSTRAINT fk_eventlog_user FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE SET NULL  
);
```