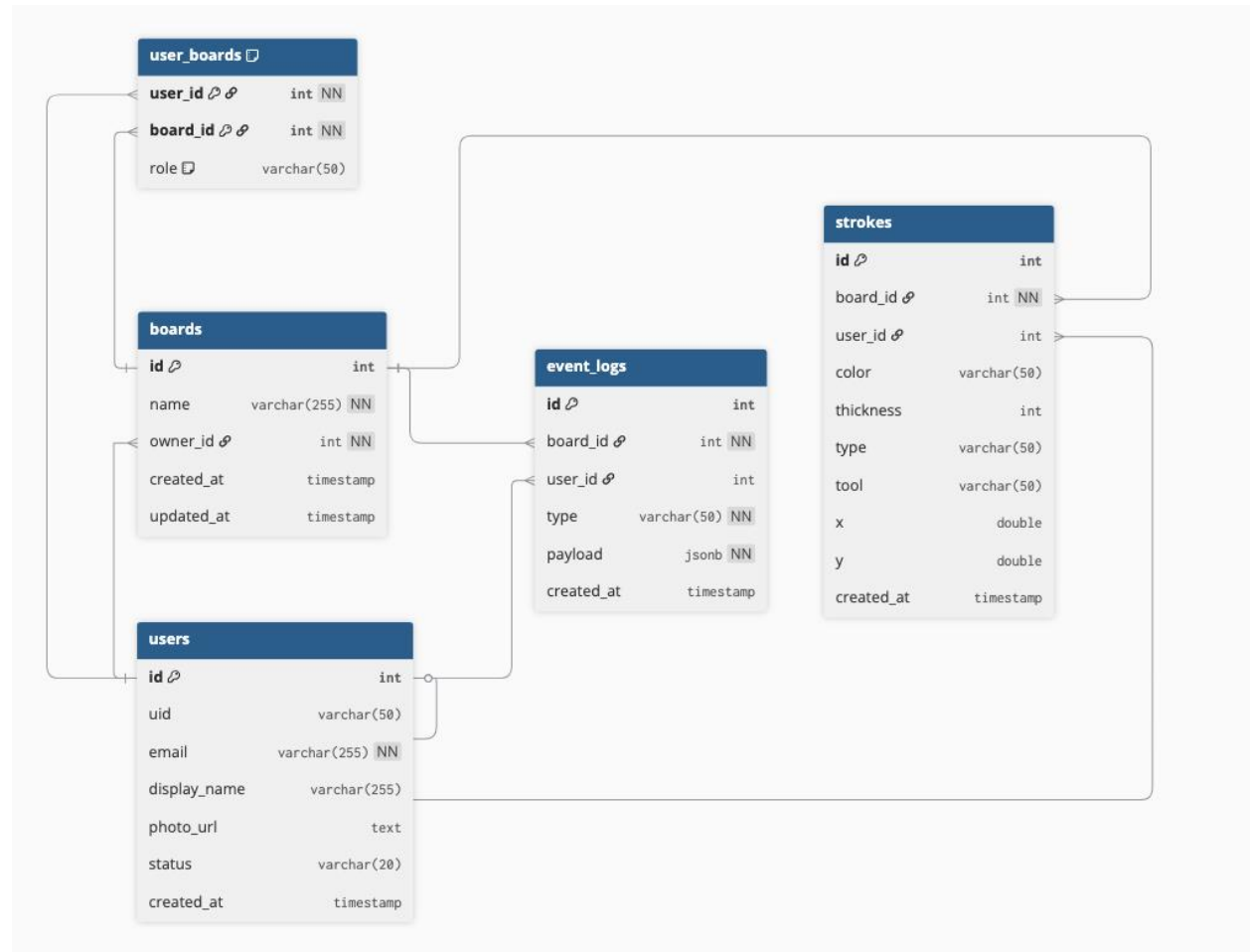


DATABASE SCHEMA



-- User table

```
CREATE TABLE users (  
id SERIAL PRIMARY KEY,  
uid VARCHAR(50),  
email VARCHAR(255) UNIQUE NOT NULL,  
display_name VARCHAR(255),  
photo_url TEXT,  
status VARCHAR(20),  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

-- Board table

```
CREATE TABLE boards (  
id SERIAL 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 SERIAL PRIMARY KEY,  
board_id VARCHAR(50) NOT NULL,  
user_id VARCHAR(50) NOT NULL,  
color VARCHAR(50),  
thickness INT,  
type VARCHAR(50), -- 'start', 'draw', 'end'  
tool VARCHAR(50), -- 'pen', 'eraser', 'hand'  
x FLOAT,  
y FLOAT,  
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 SERIAL 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
);
```