TABLE TRACK

GROUP 5
Antoinne Dalupang,
Arsalan Siddiqui,
Braydon Schick,
Matthew Boychuk,
Mohammad Arqam

What is TableTrack?

Too lazy to call? Undesirable seating? Restaurant work too chaotic?

- All-in-one restaurant service offering personalized reservations.
- **When you reserve, you choose the table:**
  - Type of seating (chairs, stools, or a booth)
  - Location (near entrance, or by a window)

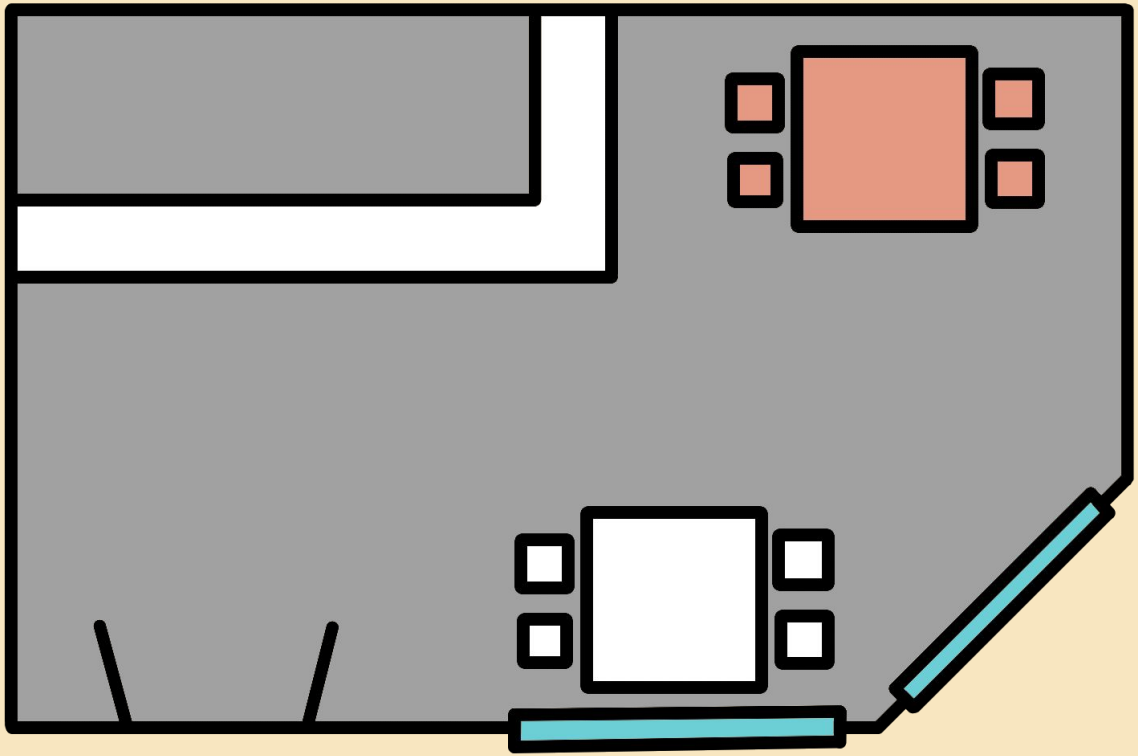
Why Use TableTrack?

- **Personalized experience for customers:**
  - Choose the exact spot where you want to reserve
- **Automation and opportunity for restaurants:**
  - Reservations made online instead of calling
  - Charging more for most requested tables

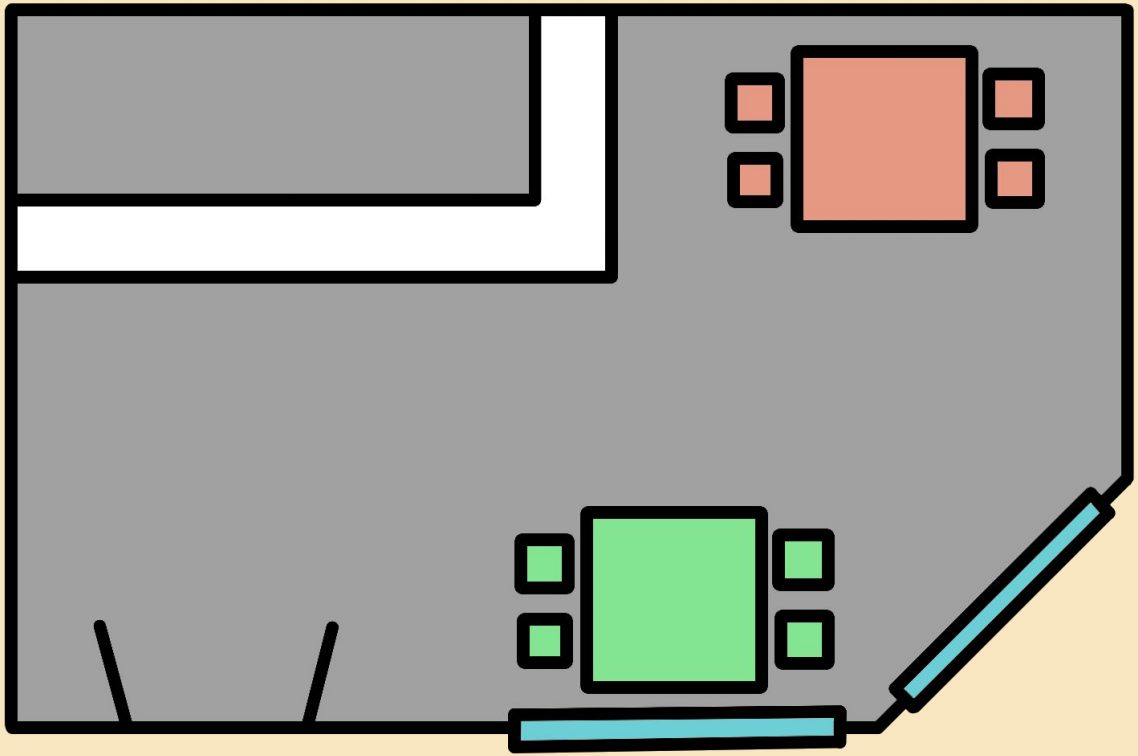
Key Features

- **Restaurant Browser**
- **Online Menus**
- **Reading and leaving reviews**
- **Reservations:**
  - See the restaurant floor plan and which tables are available to reserve
  - Choose the table you will sit at, and the time that the reservation is for
- **Floor Plan Creation:**
  - Draw the floor plan, and drag and drop from a list of different tables
  - Write descriptions of tables and add premium pricing to popular tables

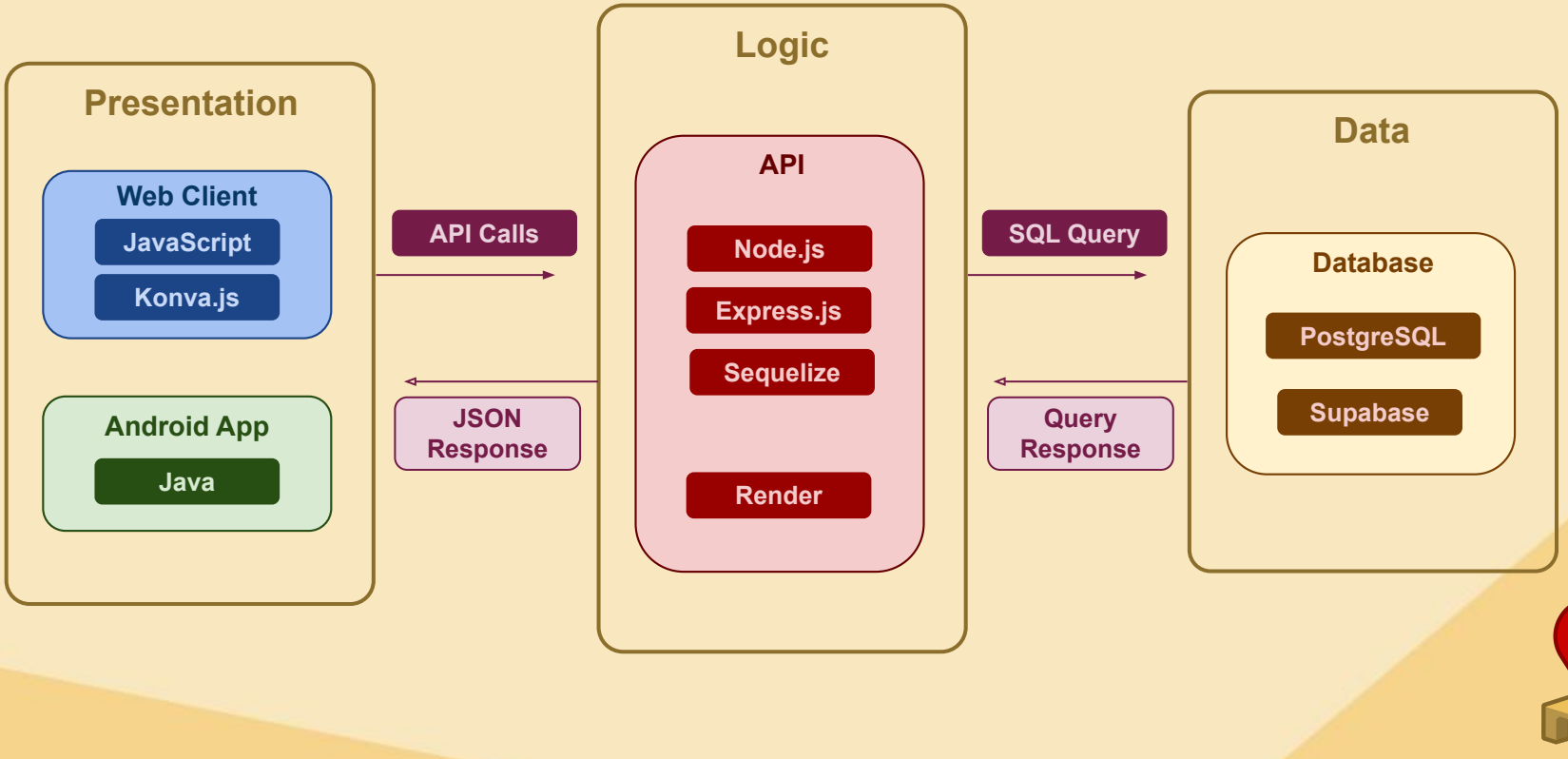
TableTrack Demo



TableTrack Demo



Architecture Diagram



Technology Rationale

- **Web Client:**
  - Vanilla **HTML/CSS/JS** for lightweight, framework-independent design
  - **Konva.js** for canvas based 2d drawings & drag-and-drop for the floor plan editor
  - Unified UI for managers and customers

- **Android App:**
  - Built in **Android Studio (Java)** as secondary frontend
  - Customer-focused: browse info, leave reviews, make reservations
  - Shares backend API with web client (clear frontend-backend separation)

Mainly due to familiarity and prior experience as a group 🤷

Technology Rationale

- **Backend:**
  - **Node.js** with **Express.js** for Business logic and REST APIs
  - JSON-based communication aligns with JS stack
  - Hosted on **Render** (supports Node.js, easy deployment)
  - **Sequelize ORM** simplifies PostgreSQL queries

- **Database:**
  - **PostgreSQL** hosted on **Supabase**
  - Supports JSON fields (flexible layouts) + strong relational structure
  - Ideal for mixed structured/unstructured data needs