

# THE FLOOR IS LAVA

Software presentation and  
technical overview

Igor Fenikowski

# Applications Resume

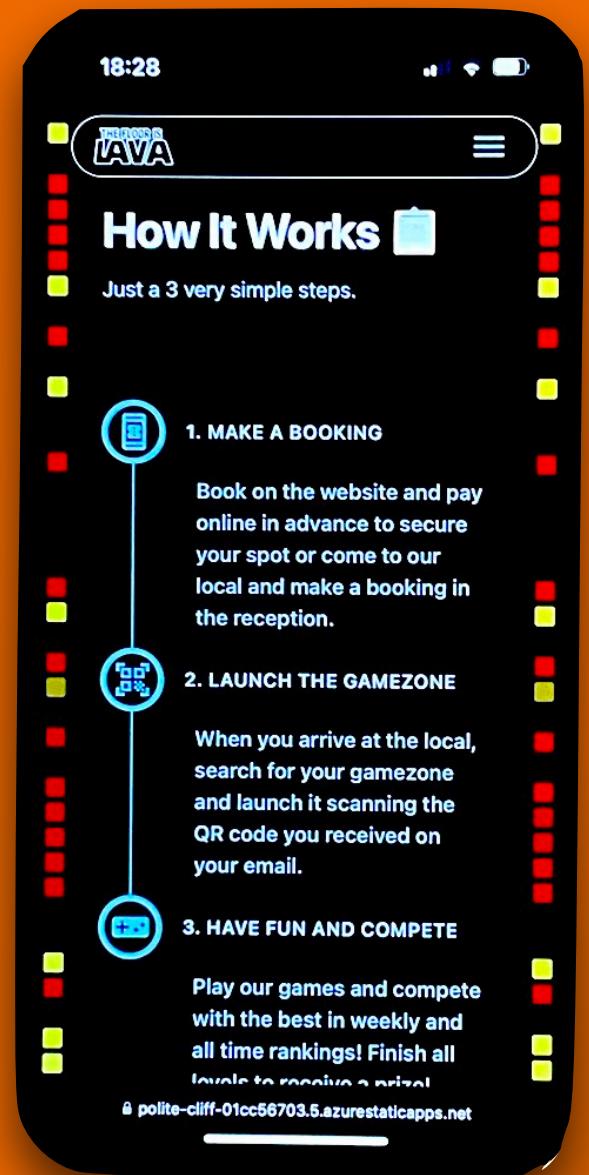
All the apps made for the business' needs

- Next.js website for clients
- Next.js website for employees
- Node.js + MySQL backend for the business logic
- Node.js app for game servers
- React Native app for user input in the “gamezones”
- React Native with gameboard simulator for game creation/testing
- Next.js app for score/game status displaying at a TV



# Business website

- Made with Next.js, Joy UI, Stripe, i18n
- Contains business presentation, booking service, game rankings and more
- Check out at: [www.thefloorislava.es](http://www.thefloorislava.es)



### Select one of our plans

Adjust dates and size of the group to see different booking options

From 1h	2 hours	2 hours	2 hours
<b>Individual</b>	<b>Birthdays</b>	<b>Integration</b>	<b>Schools</b>
For your group of friends	For celebrating the special moment	For deeper connections at work	For students and teachers
<ul style="list-style-type: none"><li>A gamezone for you and your friends for 1 or 2 hours</li><li>Sofa and small table to rest next to your gamezone</li><li>Locker to store your belongings</li><li>Special price on weekdays until 3 PM</li><li>Special price as the group size increases</li></ul>	<ul style="list-style-type: none"><li>Up to 3 gamezones for 2 hours for your friends and family</li><li>A private, decorated room for your celebration</li><li>1 complimentary drink for each guest</li><li>A private room</li><li>A gift from The Floor Is Lava team for the birthday person</li></ul>	<ul style="list-style-type: none"><li>Up to 3 gamezones for 2 hours for your class</li><li>Special price during the offer hours (10 AM to 3 PM on weekdays)</li><li>Private room for parents, teachers, or representatives</li><li>Lockers to store your belongings</li></ul>	<ul style="list-style-type: none"><li>Up to 3 gamezones for 2 hours for your class</li><li>Special price during the offer hours (10 AM to 3 PM on weekdays)</li><li>Private room for parents, teachers, or representatives</li><li>Lockers to store your belongings</li></ul>
from 12€ / person	from 180€	from 200€	from 8€ / person
<input type="button" value="Select &gt;"/>	<input type="button" value="Select &gt;"/>	<input type="button" value="Select &gt;"/>	<input type="button" value="Select &gt;"/>

**Additional Data**

Group Size: 4 persons  
Selected offer: Individual 1h

Select Date: November 2024

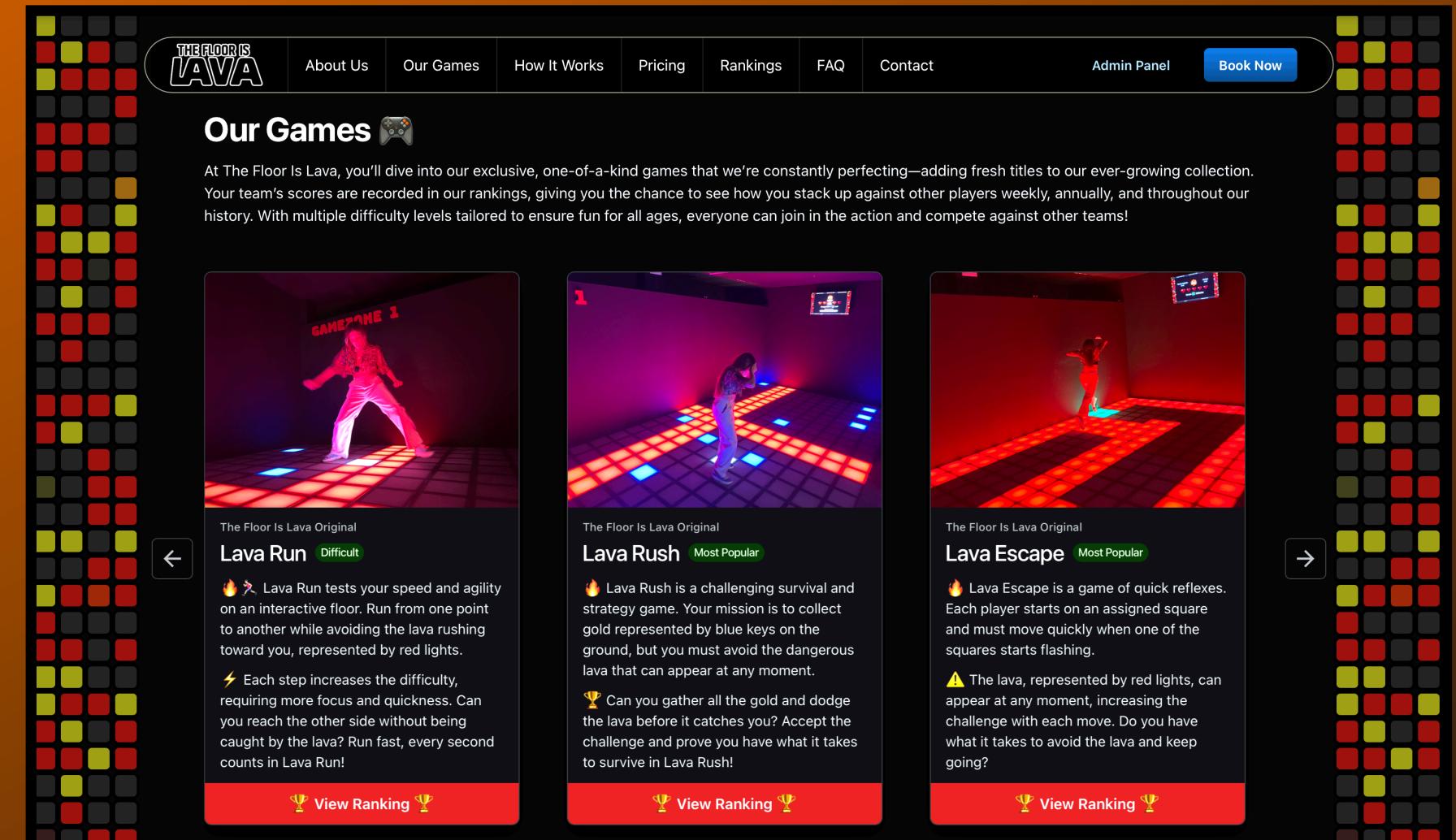
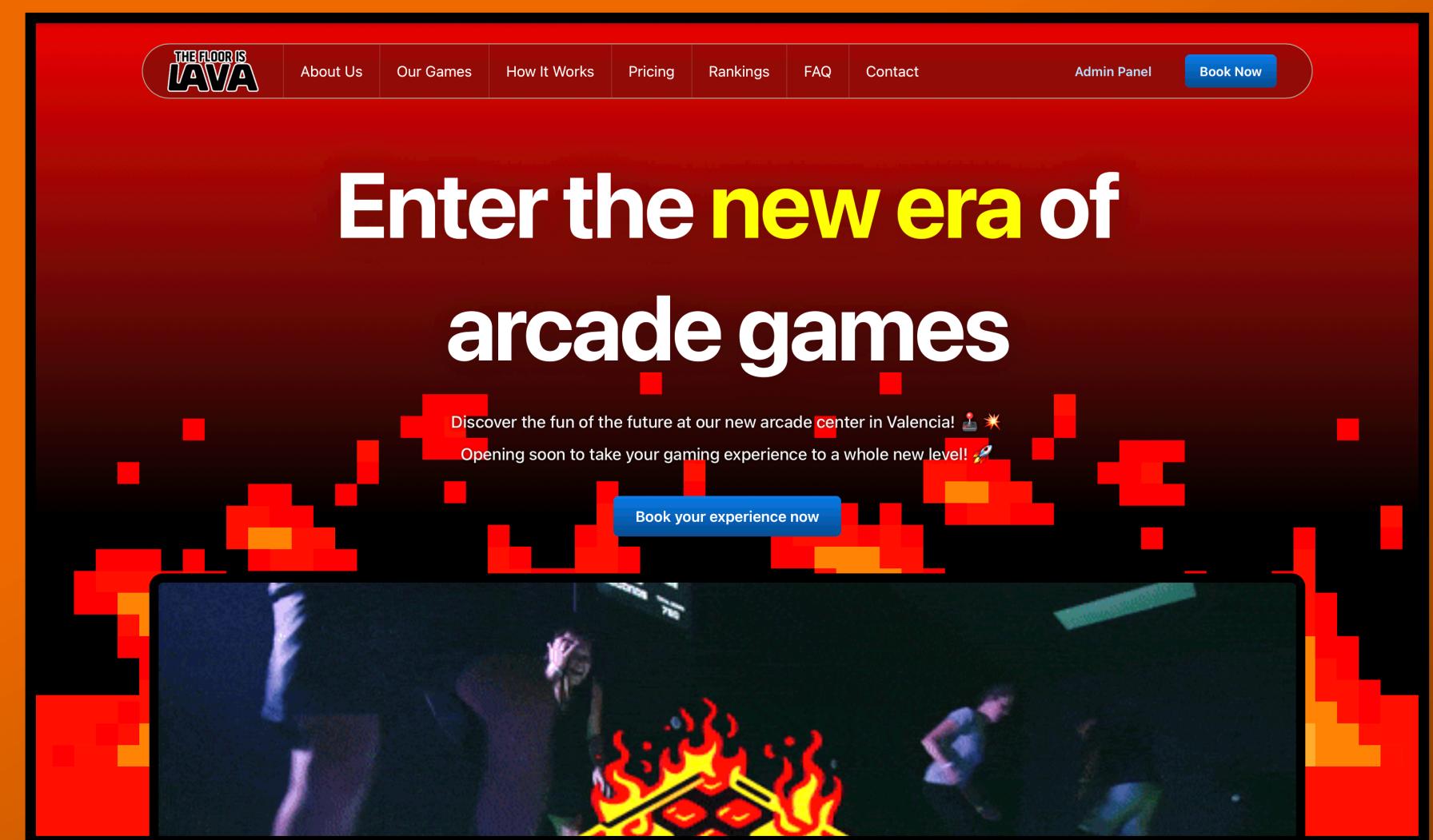
Booking Time: From 12€ pp From 15€ pp

10:00 11:00 12:00 13:00 14:00  
15:00 16:00 17:00 18:00  
19:00 20:00 21:00

Total Price: 60.00€  
Price per person: 15.00€

Enter your discount code here:  Verify

I have read and agree to the terms and conditions.  
[Read our terms and conditions.](#)



# Reception app

- Made with Next.js, Joy UI, Stripe, i18n
- Contains Point of Sales with cash and card payments, bookings management, inventory management, attractions' management, status and availability, user management with custom authentication

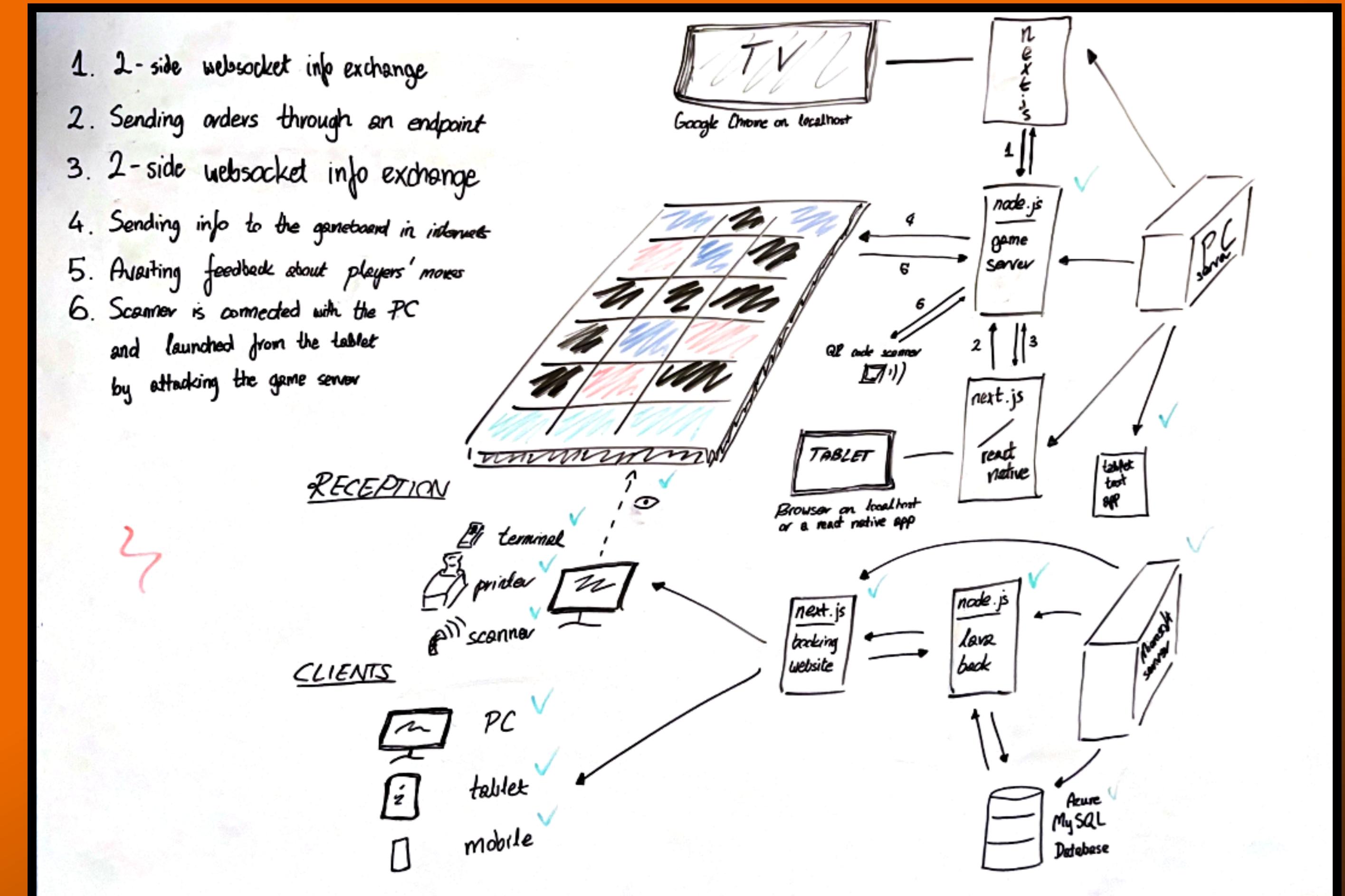
The screenshot shows the Admin Panel interface. At the top, there's a navigation bar with links for Home, Bookings, Availability, Store, Cash Balance, Users, Log Out, and buttons for Add Booking, Sell, and a dropdown for Valencia (Dama d'Elx). Below the navigation is a section titled "Attractions Status" which lists "Event room (ok)" and three game zones (Gamezone 1, Gamezone 2, Gamezone 3) all in offline status. To the right of this are sections for "Terminals" (listing Stripe WisePos Dama d'Elx and Epson thermal printer, both online) and "Printers" (listing Epson thermal printer, also online).

This screenshot shows a booking confirmation page. At the top, it says "Status: Awaiting payment" with a note about payment due by 09:50. Below that, it details the booking: Date: 26-11-2024, Start time: 16:18, Group size: 4, End time: 17:18, Booked attractions: Gamezone 1, and Price total: 60.00€. There are buttons for "Card", "Cash", and "Cancel".

This screenshot shows the "Bookings" section of the Admin Panel. It includes a calendar for October 2024 with specific days highlighted in red. Below the calendar is a table of bookings with columns for Name, Email, Offer, Status, Met..., Start, End, Pers..., Price, Attractions, and Actions. The table lists several entries, mostly for anonymous users at Gamezone 1 or 2, with some entries for Igor Fenikowski. There are also buttons for "Show everything", "Exclude cancelled", and "Only cancelled".

# Business logic backend

- Made with Node.js, Express.js, MySQL, nodemailer, multer, JWT
- Handles all business logic
- Contains custom booking system, with PoS management, attractions management, ticket printing on EPSON machines, PDF ticket generation, mailing, inventory management, game rankings



The Floor Is Lava Infrastructure

# Gamezone

- A LED floor connected with a node.js game server (dgram)
- Game server launches a session triggered by an employee from reception or by scanning a ticket/ phone with QR code
- Game server communicates through endpoints and sockets with TV screen (next.js) and React Native app on an Android tablet



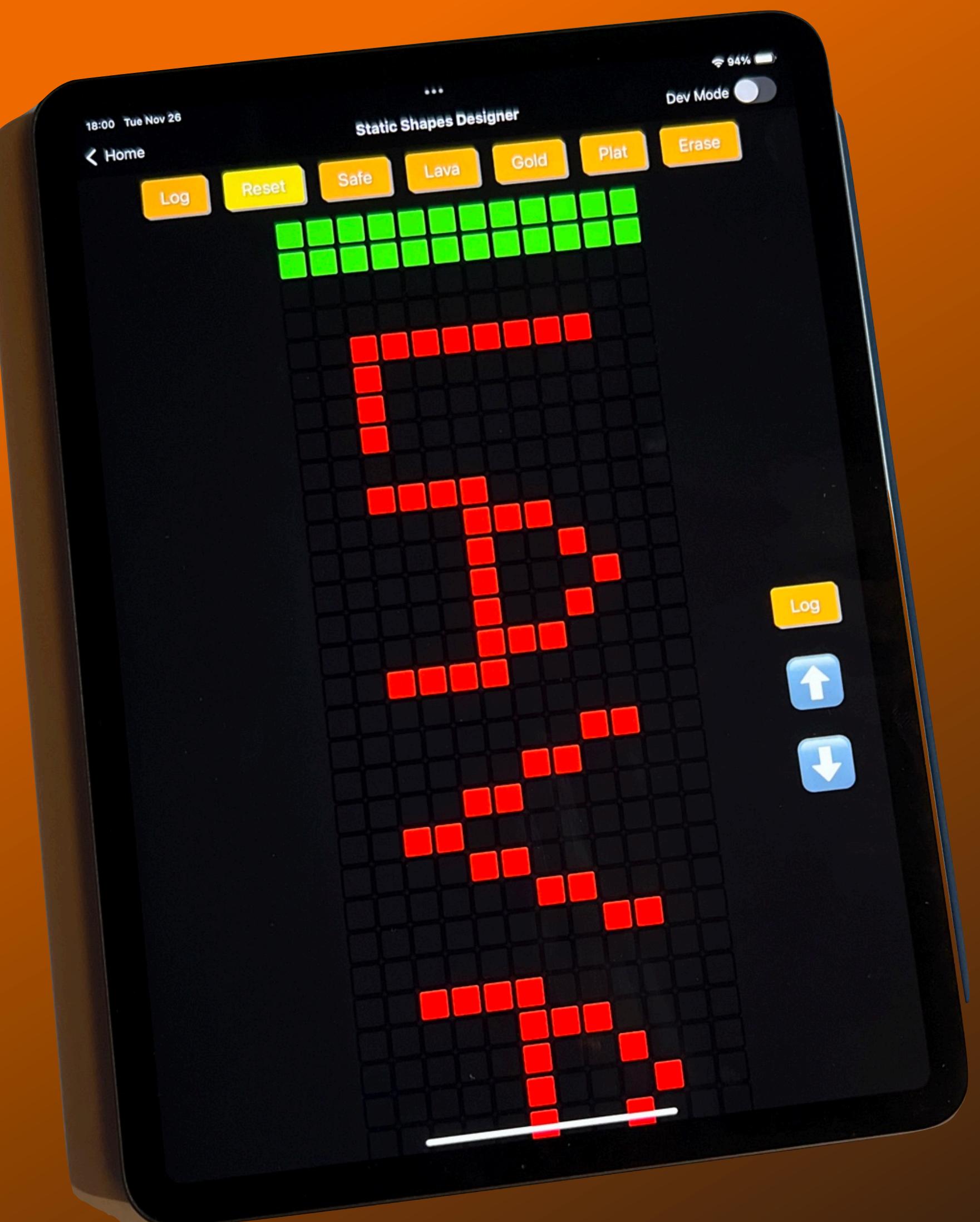
# Gamezone

- Game server contains 5 different games with over 100 levels/stages
- Clients results are saved in the database, making live rankings available both on TV screen and the website
- Game server communicates through endpoints and sockets with TV screen (next.js) and React Native app on an Android tablet



# Gamezone simulator

- Created with React Native + Expo
- Connects to the game server and allows testing games
- Allows easy way of creating new games/levels with touch display



Check out the project at:



@thefloorislava\_es



[www.thefloorislava.es](http://www.thefloorislava.es)