Real Estate Portfolio Website – Full Engineering Blueprint

Platform: Built with Bolt + Supabase | Non-Coder Friendly | Fully Professional & Scalable

Client Use Case: 70+ upcoming homes with media, floor plans, Google Maps, and advanced admin control

PROJECT OVERVIEW

You are building a modern, visually impressive real estate portfolio system for a residential builder. The site must:

- Showcase 70+ homes with full property details, floor plans, photos, and interactive maps
- Include a hidden admin dashboard for a non-technical team member to manage listings
- Display sale banners conditionally when a promotion is active
- Show "SOLD" status dynamically based on property status
- Include custom floor plans that update visually when properties are sold
- Be completed in 7 business days

FEATURE CHECKLIST (CLIENT-FRIENDLY SUMMARY)

Feature Description

Search & Filters	Search by city, bedrooms, bathrooms, square footage, and price
Property Listing Grid	Gallery with title, photo, price, and "SOLD" overlay logic
☆ Property Detail Pages	Full carousel, description, maps, and downloadable floor plan
X Hidden Admin Panel (in Bolt)	Easy interface to add/edit/delete homes, sales, and images
Conditional Sale Banner	Visible only during sale date ranges with % discount
✓ Sold Status Handling	Admin can toggle house as "sold"; shows as hidden or tagged
	Show location, directions, and interactive pins
	Floor plan graphic auto-updates sold lots visually -> THIS IS THE PICTURE I SENT YOU
	No manual coding; all tools handled in Bolt and Supabase
► Business Infrastructure	Domain, 6 business emails, and secure hosting setup

🧱 SYSTEM DESIGN

1. Bolt (Frontend + Admin)

- All frontend and admin panel UI will be built in Bolt with drag-and-drop
- Admin page is located at /admin-dashboard (hidden from public UI)
- Bolt forms handle database reads/writes (e.g., add property, upload images)

2. Supabase (Backend)

- All tables are auto-generated in Bolt's visual interface (no SQL)
- Handles data for properties, images, sales, floor plans, and status logic
- Image/file storage via Supabase Storage

3. Google Maps

- Shown on each property detail page
- Optional: dedicated map view showing all available properties
- "Get Directions" button with deep Google Maps linking

4. Email + Hosting + Domain

- Custom domain registration (IONOS PROBABLY)
- Hosting via Bolt/Vercel/Netlify

• 6 business emails set up using Zoho Mail

DATABASE STRUCTURE (Created in Bolt → Supabase) (You probably won't need to understand this)

properties

Field	Туре	Notes
id	UUID	Auto-generated
title	Text	e.g., "The Ashton Model – Lot #12"
description	Text	Full details
price	Integer	USD
bedrooms	Integer	2–6
bathrooms	Integer	1–5
sqft	Integer	Filterable
address	Text	Full address

city	Text	Filterable
zip_code	Text	Optional
lat/Ing	Float	For Google Maps
status	Enum	available, sold, coming_soon
build_plan_url	Text	Supabase link
sale_id	FK (UUID)	Links to sales table
created_at	Timestamp	Auto-managed

images

Field	Туре	Description
id	UUID	Auto
property_id	UUID	FK
image_url	Text	Supabase Storage URL
caption	Text	Optional

order	Integer	1–n
sales		
Field	Туре	Description
id	UUID	Unique sale ID
label	Text	e.g., "Summer 2025 Sale"
discount_pct	Integer	e.g., 10, 15
starts_at	DateTime	Sale begins
ends_at	DateTime	Sale ends
active	Boolean	Toggle on/off
floor_plan_overlays		
Field	Туре	Description
id	UUID	Unique
name	Text	e.g., "Sean's Master Plan"

background_image	Text	URL of full base floor plan
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(unmarked)

overlay_zones **JSON** Stores lot numbers + sold

coordinates

Timestamp last_updated Auto-updated



ADMIN DASHBOARD CONTROLS

Located at /admin-dashboard

Password-protection optional, but page is hidden from main navigation

Section	Features
♣ Add Property	Bolt Form writes to properties
	Dropdown to select existing home
Upload Images	Drag/drop image uploader (linked to property ID)
✓ Sold Status	Dropdown toggle "Available" / "Sold"
	Create sale event with start/end date and % off

Floor Plan Zones

Admin can mark sold lots manually (visually)

© CONDITIONAL LOGIC: SALE BANNER + SOLD PROPERTIES

Sale Banner

- Shown only when:
 - Current date is between starts_at and ends_at
 - o active = true
- Banner text auto-pulls:
 - " [label] [discount]% off all homes until [ends_at]!"

Sold Status Logic

- If marked sold, the property:
 - Option A: gets hidden from public listings
 - o Option B: stays visible with "SOLD" tag
- Logic is controllable in the admin by your client

CUSTOM FLOOR PLAN VIEW (Image Overlay)

This view shows an interactive floor plan with:

- Background image (e.g., Shawn's master lot layout)
- Dynamic zones that turn red or tagged as "SOLD"
- You can implement this using:
 - Custom HTML block with tag positioning

SEARCH + FILTER FEATURES

Filter	Description
Bedrooms	Multi-select
Bathrooms	Multi-select
Price	Min → Max range
City	Dropdown
Square Footage	Min → Max slider

All powered by Bolt query filters mapped to Supabase

COPY & CONTENT STRATEGY

Use bold, high-conversion wording. Examples:

Homepage Hero:

Sale Banner:



Listing CTA:

7-BUSINESS-DAY TIMELINE (COMPRESSED)

Day 1

Setup Supabase via Bolt, domain registration, storage bucket setup

Build frontend listing grid, property detail template, Google Maps integration

Day 3

Build hidden admin dashboard (add/edit/delete property, upload images)

Add sale logic + conditional banner + sold logic

Day 5	Custom floor plan view + sold overlay zones
Day 6	Finalize search filters (sqft, city, beds, baths), polish responsive layout
Day 7	Set up business emails, connect domain, full test & deploy

LAUNCH & INFRASTRUCTURE SETUP

Item	Setup Details
∑ Domain	Prob lonos (Talk to me about this and don't worry about it yet) (1-year standard)
Hosting	Bolt/Vercel or Netlify (production-read)
E Emails	Zoho Mail (up to 6 inboxes)
₩ SSL	Enabled via hosting provider
Backups	Enabled in Supabase project settings