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# Take-Home Test Voice-Only Property Sales Al Agent

### Goal

Ship a working **phone-based voice agent** that qualifies a buyer, answers FAQs, handles objections, and **books an appointment** for a (fictional) Melbourne apartment development. Any stack is fine. We just need to **dial it from Australia** and use it without logins.

### What to Submit (must-have)

#### 1. Phone number we can call

 Reachable from Australia; no PINs/logins. Retell/Twilio/VAPI/etc. all fine.

#### 2. Booking that actually works

- o Agent must book a **15-min** call or display-suite visit.
- Use Calendly/Google Calendar or a mock API (see spec below).

#### 3. Call transcript + recording

 Provide an auto-generated transcript and recording link for each call.

### 4. Short README (max 2 pages)

 Stack & LLMs, prompt/flow design, grounding approach, guardrails, logging, cost to run 100 calls, what you'd improve next.

#### 5. 2-minute Loom

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Quick walkthrough of your design and the trade-offs you made.

### 6. Code or config peek

GitHub/zip or architecture diagram + key prompts/tools/functions.

### **Voice Agent — Required Behaviours**

- Natural, interruptible conversation (barge-in supported).
- Latency targets: first response ≤ 2.5s, turn-taking gap ≤ 800ms.
- Aussie-friendly STT/TTS (handle Australian English, names, addresses).
- Qualification (at least): budget band, bedrooms, parking, timeframe, owner-occ vs investor, finance status, preferred suburb(s), contact details.
- FAQs & objections: Answer from the knowledge pack; never bluff. If unsure, offer a human follow-up.
- **Appointment booking:** Offer 2–3 concrete slots, confirm, and read back details.
- Summary & logging: Generate a concise lead summary and store a JSON of key fields + outcome.
- **Compliance:** No legal/financial advice, recognise "STOP/unsubscribe," and offer professional referral where appropriate.
- **Recovery:** Handle silence ("Are you still there?"), mishears ("Did you mean...?"), and escalation ("I can get a specialist to call you back").

### Property Knowledge Pack (fictional ground truth)

**Project:** Riverstone Place (Fictional)



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Suburb: Abbotsford, VIC

**Developer:** Harbourline Developments (fictional)

**Builder:** Apex Construct (fictional)

Completion target: Q4 2027 (indicative)

**Amenities:** Rooftop pool, gym, co-working lounge, residents' dining, parcel lockers, EV chargers, bike storage

**Sustainability:** 7.5+ NatHERS target; solar-assisted common power; green tariff

option

**Display suite:** 123 Swan St, Richmond — Sat/Sun 10:00–16:00; weekdays by

appointment

Handoff email (test): sales@riverstoneplace.example

#### Indicative inventory & pricing (do NOT promise exact stock):

- 1-Bed (50-55 m²): from **\$585k**; optional car +\$65k (limited)
- 2-Bed (75-85 m²): from **\$845k**; **1 car** included (most)
- 3-Bed (105-120 m²): from **\$1.28m**; **2 cars** included (limited)

**Deposit:** 10% on exchange. **Pilot 1% holding** (max \$10k) can hold a chosen apartment for 14 days **before** topping to 10% (subject to approval, limited).

Indicative strata (not a quote): 1-Bed ~\$2.8-3.6k/yr; 2-Bed ~\$3.6-4.6k/yr; 3-Bed ~\$4.8-6.2k/yr.

### Common Q&A (model answers):

- Construction start target late 2025; completion targeted Q4 2027 (indicative).
- No rental guarantees; can refer to a property manager for market guidance.



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- Foreign buyers may face extra approval/taxes; agent cannot advise—offer referral.
- Finance: we can refer to a broker; no personal finance advice.
- Finishes: limited customisation windows, subject to availability/cost.
- Parking: limited for 1-Beds and paid extra; not guaranteed.

### Offer these appointment slots (AEST):

- Mon-Fri: 10:00, 13:00, 16:00 (video or display-suite)
- **Sat:** 10:00, 12:00 (display-suite preferred)

**Lead capture (minimum):** name, mobile, email, budget band, beds, parking need, timeframe, finance status (pre-approved / in-progress / not started), preferred slot, notes.

#### Recommendation logic (baseline):

- Budget < \$650k → steer to 1-Bed; warn parking is limited/extra.</li>
- \$650k-\$1.1m → 1- or 2-Bed; confirm beds/parking/timeline.
- > \$1.1m → include 3-Bed; confirm two car spaces.

## Booking — Mock API Option (if you don't wire a real calendar)

Expose one endpoint your agent calls:

None

POST /book\_appointment Body:

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```
{
    "name": "Alex Tran",
    "phone": "+61400000001",
    "email": "alex.tran@example.com",
    "slot_iso": "2025-09-26T10:00:00+10:00",
    "mode": "video|display-suite",
    "notes": "2-bed, budget 900k, pre-approved"
}
Response:
{ "ok": true, "booking_id": "RS-20250926-1000", "message": "Booked Fri 26 Sep 10:00 AEST" }
```

Your agent should read the response and speak back a confirmation.

### Logging — Minimum JSON per call

```
None
 "timestamp": "2025-09-23T11:04:00+10:00",
 "caller_cli": "+614XXXXXXXX",
 "summary": "Investor, 2-bed, $850-950k, pre-approved, prefers
Abbotsford.",
 "qualification": {
  "budget_band": "850k-950k",
  "beds": 2,
  "parking": 1,
  "owner_occ": false,
  "timeframe": "3-6 months",
  "finance_status": "pre-approved",
  "suburbs": ["Abbotsford","Richmond"]
 "booking": {
  "slot_iso": "2025-09-27T12:00:00+10:00",
  "mode": "display-suite",
  "booking_id": "RS-20250927-1200",
```



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```
"status": "confirmed"
},
"compliance_flags": [],
"transcript_url": "https://...",
"recording_url": "https://..."
}
```

### What We'll Test (we'll place 3-5 calls)

- 1. **Price-sensitive owner-occupier:** \$600–650k budget, wants parking, move-in 12+ months, not pre-approved.
- 2. **Investor, pre-approved:** \$900k, wants 2-Bed, timeline 3-6 months, asks about yields (should decline to advise; offer referral).
- 3. **Foreign buyer probe:** asks about FIRB and stamp duty surcharges (should not advise; offer referral + book consult).
- 4. **Objection handling:** "Strata sounds high" / "Can you guarantee completion date?"
- 5. Unsubscribe: Says "STOP" or "Don't contact me."

### **Constraints & Notes**

- Treat the knowledge above as **authoritative** for the test.
- Use only test numbers/emails; no real personal data.
- If you SMS/email confirmations, route to your own test inbox/number.
- Keep the entire build callable within 4-6 hours of effort—show working value fast over perfection.