

Level 2 Proof of Concept

Deliverables

- Concept document: `/docs/Case_Study_3_Submission_Draft.md`
- Clickable wireframe (Figma): [Proof of Talk Pitch Board v5](#)
- Working app (live): <https://ai-matchmaking-pot.vercel.app>
- Input dataset (12 fictional attendees): `/docs/level2/sample_input_12_attendees.json`
- Output dataset (quality-gated matches): `/docs/level2/sample_output_matches.json`
- Output dataset (pair/triad scenarios): `/docs/level2/sample_output_scenarios.json`

What the POC proves

- Role-based auth and route scoping are implemented.
- Audit logging exists for sensitive actions.
- Hard constraints are enforced.
- Soft scoring ranks strategic fit.
- Quality gate is enforced (`score > 65`, target 3-7 when available).
- Match explanations are generated.
- Feedback changes future ranking.
- Strategic pair/triad opportunities are surfaced.
- Organizer can input new attendees from UI.
- Organizer can export recommendations as CSV.
- External source retrieval works through company website enrichment endpoint.
- Note: endpoint requires outbound network/DNS in runtime environment.
- LinkedIn retrieval is implemented as explicit opt-in enrichment (checkbox + profile URL only, no hidden scraping).
- Enterprise hardening controls (RBAC, CSRF, security headers, SSRF guard, audit logs) are implemented.
- UI is production-polished with:
 - Proof of Talk logo and favicon,
 - premium but lightweight animations,
 - responsive spacing fixes for card-heavy sections (more generous card padding + improved typography spacing),
 - cross-device stability under window resize/orientation changes.

Run

```
python3.12 -m venv .venv
source .venv/bin/activate
python -m pip install --upgrade pip
python -m pip install -r requirements.txt
```

```
python scripts/seed_data.py  
python scripts/generate_level2_artifacts.py  
python -m uvicorn app.main:app --reload
```

Open:

- App: <http://127.0.0.1:8000>
- Organizer workspace: <http://127.0.0.1:8000/organizer>
- Matches API: <http://127.0.0.1:8000/v1/matches/1>
- Scenarios API: <http://127.0.0.1:8000/v1/scenarios>
- Enrichment API example: POST
`/v1/enrich/company?attendee_id=1&source_url=https://example.com`
- LinkedIn API example: POST `/v1/enrich/linkedin?attendee_id=1&source_url=https://www.linkedin.com/in/profile`
- Favicon route: <http://127.0.0.1:8000/favicon.ico>

Live deployment:

- <https://ai-matchmaking-pot.vercel.app>

5-minute demo flow

1. Open attendee view and show quality-gated recommendations.
2. Show explanation reasons on match cards.
3. Show organizer strategic scenarios (pair and triad).
4. Submit feedback and refresh ranking.
5. Show organizer metrics.
6. Resize browser and show stable layout/spacing behavior in Curated Directory and Strategic Scenarios sections.