

Assistant Completion 32-Hour Sprint (This is max time, You can get done and submit prior to this is you are done-Helps with better overall score.): Integration Push (Owners: Nilesh, Noopur, Parth, Chandresh)

Goal: complete core integration points with Seeya + Sankalp so the pipeline flows end-to-end:

Message → Summarize (/api/summarize) → Create Task (/api/process_summary) → Respond (/api/respond) → Recall (/api/search_similar) → Coach feedback (/api/coach_feedback) → Metrics.

Deadline: 32 hours from start.

Deliverables (shared)

1. New API endpoints (integrated into assistant-live-demo repo):
 - POST /api/respond → produce and store response.json.
 - POST /api/search_similar → return related past summaries/tasks.
 - POST /api/coach_feedback → store coach feedback & score.
 - GET /api/metrics → return service metrics (counts/latency/errors).
2. DB schema additions (SQLite assistant_demo.db):
 - responses(response_id, task_id, user_id, response_text, tone, status, timestamp)
 - embeddings(id, item_type, item_id, vector_blob, timestamp) (vector storage simplified; can be JSON/text for now)
 - coach_feedback(id, summary_id, task_id, response_id, score, comment, timestamp)
 - metrics(id, endpoint, status_code, latency_ms, timestamp)
3. Streamlit tester updates:
 - Show Response card after Task.
 - Show Related Past Context from /api/search_similar.
 - Add Feedback tab to POST to /api/coach_feedback.
 - Add Metrics tab reading /api/metrics.
4. Tests:
 - tests/test_integration.py updated to exercise new endpoints and validate DB writes.

5. VALUES.md entries added by each owner (≤ 150 words each) addressing Humility, Gratitude, Honesty.

Who Does What (owners & integration points)

Noopur — Responder integration (primary)

- Implement `/api/respond`.
 - Input: `task.json` (from Sankalp) or `{task_id}`; call into existing `responder_agent.py`.
 - Output: `response.json` saved to DB.
 - Tone/safety checks via `safety_filter.py` (if flagged, set `status="flagged"`).
- Update Streamlit: display Response card and add “Send Response” simulation button.
- Unit tests for response generation + safety flags.

Integration points: read tasks table, write responses table.

Chandresh — EmbedCore & Recall (primary)

- Implement embedding index + `/api/search_similar`.
 - Accept `message.json` or `summary_id`; return top-3 similar summaries/tasks with similarity scores.
 - Store embeddings for new summaries (on `/api/summarize` write hook) — coordinate with Seeya to invoke embedding write or poll DB.
- Provide simple similarity using SentenceTransformer or a placeholder cosine on mocked vectors. Persist vectors in embeddings table.
- Add small script `rebuild_embeddings.py` for reindexing.
- Unit tests for `search_similar` and embedding storage.

Integration points: subscribes to summaries writes; returns context to Streamlit UI.

Parth — CoachAgent & Feedback (primary)

- Implement `/api/coach_feedback`.
 - Input: `{summary_id, task_id, response_id, scores: {clarity, relevance, tone}, comment}`
 - Compute score (aggregate) and persist in `coach_feedback`.

- Optionally send a reward update to Chandresh endpoint (e.g., /api/rl_reward) — simple POST hook.
- Build simple auto-scoring rules (clarity from summary length/key phrases; relevance via similarity score from Chandresh).
- Update Streamlit Feedback tab to accept ratings and display coach logs.
- Unit tests to assert feedback persistence and coach score logic.

Integration points: reads summary/task/response; writes coach feedback; optionally notifies RL.

Nilesh — Metrics, Logging, Execution Tracking (primary)

- Implement middleware or small wrapper logging every API call to metrics table (endpoint, status, latency).
- Build /api/metrics summarizing:
 - total_messages, total_summaries, total_tasks, total_responses, avg_latency_ms, error_rate.
- Add Streamlit Metrics tab that fetches /api/metrics.
- Ensure logs are appended on success/error for /api/respond, /api/search_similar, /api/coach_feedback.
- Provide a short monitoring_readme.md with commands to fetch metrics and tail logs.

Integration points: every service logs to metrics; test harness calls metrics endpoint.

Step-by-step Schedule (32 hours)

Hour 0 — Kickoff (0–0.5h)

- Quick sync call (15–30 minutes): confirm DB type (SQLite), repo branch, and where to push. Agree on port and API base (/api/*).
- Create a new branch alpha-integration in repo and push skeleton endpoints.

Hours 0.5–8 — Phase A (8 hours)

- Noopur: scaffold `/api/respond` endpoint, basic responder hook, DB write to responses.
- Chandresh: scaffold embedding storage function and embeddings table; implement a placeholder similarity function.
- Parth: scaffold `/api/coach_feedback` endpoint and feedback table.
- Nilesch: implement basic metrics logger middleware and metrics table; ensure endpoint exists.

Deliverable by hour 8: endpoints exist (stubs) and DB tables created; basic tests for DB writes running.

Hours 8–18 — Phase B (10 hours)

- Noopur: implement safety filter integration and response status logic; add unit tests for flagged content.
- Chandresh: implement `/api/search_similar` returning nearest 3 items; connect to summaries writes (either hook or polling).
- Parth: implement auto-scoring logic using Chandresh similarity; persist coach feedback; basic Streamlit UI for feedback.
- Nilesch: complete metrics capture for these endpoints; add simple aggregation logic.

Deliverable by hour 18: functional `/api/respond`, `/api/search_similar`, `/api/coach_feedback`, metrics logging; Streamlit tabs partially updated.

Hours 18–26 — Phase C (8 hours)

- Joint work: integrate with Seeya/Sankalp pipeline:
 - Confirm Seeya's `/api/summarize` triggers embedding write or run a script to index existing summaries.
 - Ensure Sankalp's `/api/process_summary` yields `task.json` that Noopur can consume.
- Update Streamlit: Response card appears automatically after Task; Related Past Context shown; Feedback actions visible.
- Run and fix integration issues; add DB constraints if necessary; iterate.

Deliverable by hour 26: full pipeline end-to-end in local environment: Message → Summary → Task → Respond → Similar Context → Coach Feedback → Metrics.

Hours 26–32 — Phase D (6 hours)

- Write/complete tests: update `tests/test_integration.py` to exercise new endpoints end-to-end.

- Each owner writes short VALUES.md entry and pushes to branch.
- Final bug fixes, README updates (how to run metrics and how to test).
- Prepare 60–90s demo clip or screenshots and push.

Deliverable by hour 32: passing integration test, updated Streamlit demo, DB populated for demo, VALUES.md committed.

Acceptance Criteria (what “done” looks like)

- POST /api/respond returns response.json and writes to responses table.
- POST /api/search_similar returns top-3 related items with similarity scores.
- POST /api/coach_feedback stores feedback and returns aggregated coach score.
- GET /api/metrics returns non-empty metrics for endpoints exercised.
- Streamlit tester shows Response card, Related Past Context and Feedback actions; Metrics tab shows counts.
- tests/test_integration.py passes locally.
- Each participant committed VALUES.md with Humility, Gratitude, Honesty reflections (required).

Quick API Contracts (copy into repo)

/api/respond (POST)

Input: task.json (see earlier contract)

Output:

```
{ "response_id": "r123", "task_id": "t123",
  "response_text": "...", "tone": "polite", "status": "ok",
  "timestamp": "ISO8601" }
```

/api/search_similar (POST)

Input: { "summary_id": "s123" } or message.json

Output:

```
{ "related": [ { "item_type": "summary", "item_id": "s456",
  "score": 0.87, "text": "...", ... } ] }
```

/api/coach_feedback (POST)

Input:

```
{ "summary_id": "s123", "task_id": "t123",  
  "response_id": "r123",  
  "scores": {"clarity": 4, "relevance": 5, "tone": 4},  
  "comment": "..."} }
```

Output: { "feedback_id": "f123", "score": 13, "stored": true }

/api/metrics (GET)

Output: sample

```
{ "total_messages": 123, "total_responses": 45,  
  "avg_latency_ms": 120, "error_rate": 0.02 }
```

Testing & Run commands (for README)

- Start API: `uvicorn api.main:app --reload --port 8000`
- Start Streamlit: `streamlit run streamlit/demo_streamlit.py`
- Run tests: `pytest -q tests/test_integration.py` or `python tests/test_integration.py`
- Inspect DB: `sqlite3 assistant_demo.db "select * from responses;"`

Small operational notes

- Use feature branch `alpha-integration` and push frequently; everyone merges only after tests pass locally.
- Keep commits small and include short messages: e.g., `noopur: add /api/respond and write response table`.
- If embedding model is slow, use a lightweight text hashing or mini-vector placeholder for the sprint and mark as TODO.