



**Step-up process by uniting
People, Business and Technology**

Project Overview

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“The Digital Self” Prototype Development

For this MVP, our goal is to build the core foundational framework, a text-based system that allows users to input their data, reflections, and emotional context. This information will be semantically processed and organized into sub-vectors (Information, Emotion, Attitude-to-Life), which together synthesize into a Main Persona Vector representing the holistic essence of a user’s digital self.

The proposed architecture will be LLM agnostic, modular, and future-ready, ensuring smooth expansion into multi-modal and adaptive layers (voice, control vector, etc.) in later phases. The system will strictly follow GDPR compliant data ethics and preserve complete user data ownership.



A. Objective

To develop a fully functional text-based Digital Self MVP that:

- Collects and stores textual data securely with detailed metadata.
- Cleans and semantically processes input using advanced NLP techniques.
- Generates and stores structured sub-vectors representing knowledge, emotion, and life attitude.
- Combines these sub-vectors into a Main Persona Vector that encapsulates the user's unique identity.
- Responds contextually through a Control Vector prototype that interprets tone, complexity, and emotional depth.
- Delivers transparency, traceability, and human centered ethical compliance.

This MVP will validate data structure, control logic, and architectural design for advanced multimodal and LLM integrations. By applying the Agile methodology, Softices will deliver value early and iteratively, reviewing progress with the client every two weeks to refine outputs and ensure the system behaves as envisioned.

B. Solution Architecture

1. Data Intake Layer

- Accept user generated text inputs (journals, reflections, conversations).
- Store data securely with contextual metadata (timestamp, sentiment, topic).
- Provide flexible REST APIs for secure ingestion and future expansion to audio/video.
- Enable detailed activity logging and permissions for full auditability.

2. Semantic Cleaning & Structuring

- Apply NLP pipelines (spaCy, transformers) to clean, tokenize, and tag text semantically.
- Identify core entities, values, and emotional signals.
- Maintain contextual relationships within and across documents.
- Build a dynamic semantic graph to interconnect recurring ideas and traits.

3. Subvector Generation Engine

- Create three structured sub-vectors:
 - Information Vector: factual and biographical data.
 - Emotion Vector: affective tone, sentiment, and intensity patterns.
 - Attitude-to-Life Vector: worldview, beliefs, moral and philosophical stance.
- Store embeddings in a vector database (FAISS, Pinecone, or Milvus) for semantic retrieval.
- Support version control for progressive data refinement.

4. Main Persona Vector Composer

- Merge all sub-vectors into a unified Main Persona Vector that represents a multi-dimensional personality.
- Implement weighting logic for emphasis on emotion vs. knowledge depending on interaction context.
- Enable continuous evolution as new data is added.
- Serve as the single source of truth for persona identity and behavior.

5. Control Vector Prototype (Adaptive Response Layer)

- Analyze incoming queries to determine tone, user type, and intent.
- Adjust responses dynamically, simpler and empathetic for children, detailed and analytical for experts.
- Ensure consistent personality tone across sessions.
- Produce text responses aligned with user's essence and ethical framework.

6. API Framework & Documentation

- Deliver REST-based API architecture for each functional layer.
- Provide complete documentation (Swagger, Postman) with endpoint usage examples.
- Include architecture diagrams and developer setup guide for transparency and extensibility.

C. Agile Project Management Approach

Softices will manage the project through Agile Scrum methodology, ensuring transparency, adaptability, and collaboration.

- Sprints: The project will be divided into 4 sprints of two weeks each, covering design, development, testing, and integration.
- Sprint Planning: Each sprint begins with defined objectives and ends with a review and client demo.
- Daily Stand-Ups: Internal coordination ensures blockers are removed and tasks progress efficiently.
- Sprint Reviews: Client feedback incorporated every two weeks to align with vision.
- Retrospectives: Continuous improvement of processes, velocity, and communication.
- Tools: Jira / Trello for sprint tracking and Slack/Meet for ongoing collaboration.

This approach promotes fast feedback, risk mitigation, and consistent visibility for the client while maintaining the highest development standards.

Project Workflow:

Step 1 – Discovery & Architecture

- Study user data flow, finalize sub-vector schema and main vector model.
- Define architecture diagrams, APIs, and development roadmap.

Step 2 – Development

- Build modules for data intake, semantic cleaning, and sub-vector creation.
- Implement dynamic vector synthesis and API endpoints.

Step 3 – Integration & Testing

- Containerize modules with Docker.
- Conduct performance, validation, and API testing.
- Ensure scalability for future Control Vector integration.

Step 4 – Deployment & Documentation

- Prepare final documentation and assist in deployment on client servers.
- Conduct knowledge-transfer session and final review.

Technology Stack Requirement

Layer	Technology
Backend Framework	Python (FastAPI)
Data Processing / NLP	spaCy, LangChain, OpenAI Embeddings
Vector Database	FAISS / Pinecone / Milvus
Database	PostgreSQL / MongoDB
Containerization	Docker
API Protocols	REST / gRPC
Hosting (Client-managed)	AWS / Azure / EU-based cloud
3rd Party APIs	OpenAI / Anthropic (for embeddings), Whisper (optional)

Timeline & Milestones:

Milestone 2:

Data intake, sub-vector creation, main vector - Weeks 3 to 8

Milestone 3:

API framework, Dockerization, validation - Weeks 9 to 11

Milestone 1:

Project advance and Architecture design, schema definition - Weeks 1 to 2

Milestone 4:

Documentation, deployment, handover - Week 12



Cost

Milestone	Deliverable	Amount (€)
Milestone 1	Project advance and Architecture design, schema definition	1,000
Milestone 2	Data intake, sub-vector creation, main vector	3000
Milestone 3	API framework, Dockerization, validation	3000
Milestone 4	Documentation, deployment, handover	3000
Total Amount		€ 10,000 EUR

Note:

- ◆ Server cost is not included in the proposed price and will be billed separately.
- ◆ Any expenses related to integrating third-party APIs, software, or additional tools will be charged separately.
- ◆ Any additional changes beyond the defined scope may impact both the project timeline and overall cost.



Terms & Conditions:

Confidentiality

- ◆ Softices Consultancy agrees to maintain the confidentiality of all proprietary information shared by the client for the purpose of this project.
- ◆ The client must ensure that all project-related information shared with Softices Consultancy is non-infringing on third-party rights.

Ownership of Work

- ◆ All deliverables developed as part of this project will remain the property of the client upon full payment of invoices.
- ◆ Softices Consultancy retains the right to use non-confidential project components for portfolio and marketing purposes.

Project Scope Changes

- ◆ Changes to the agreed project scope will require written approval from both parties.
- ◆ Any additional work outside the original scope will be estimated separately and billed accordingly.

Limitation of Liability

- ◆ Softices Consultancy will not be liable for delays or failures caused by external factors beyond its control, including but not limited to server outages, third-party service issues, or acts of nature.

Dispute Resolution

- ◆ Any disputes arising from this project will be subject to amicable resolution through mutual discussions.
- ◆ If unresolved, the dispute will be referred to arbitration under the jurisdiction agreed upon by both parties.

Call to Action

Ready to revolutionize your tech game? Connect with us today, and let's turn your vision into reality!

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