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FuturaWerk Preventiecoöperatie UA  
t.a.v. mevr. L.J. van van Gerven  
Adres: Parksingel 44  
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Phase 1: Discovery & Architecture (Preparation)

High-level architectural decisions and requirements definition.

	Role	Rate	Hours	Total
<b>Project Scoping &amp; Definition:</b> Analysis of customer requirements, stakeholder interviews, and defining success metrics (KPIs).	Business Analyst	€ 165	4.0	€ 660
<b>System Architecture Design:</b> Designing the Multi-Agent System (MAS) using Google ADK. Defining the "Tiered Self-Correction" Strategy (Regex → LLM → OCR).	AI Architect	€ 250	6.0	€ 1,500
<b>Data Pipeline Strategy:</b> Designing the Universal Invoice Processor logic to handle raw text vs. OCR fallbacks without format assumptions.	Data Architect	€ 225	2.0	€ 450

Phase 2: Core Development (The Build)

Implementation of the Python agents and core logic found in `capstone_agents.py` and `universal_invoice_processor.py`

	Role	Rate	Hours	Total
<b>Universal Invoice Processor:</b> Implementation of <code>UniversalInvoiceExtractor</code> , Polars integration, and basic PDF text extraction (PyPDF2/PDFPlumber).	Python Dev	€ 175	5.0	€ 875
<b>Multi-Agent Orchestration:</b> Implementing <code>InvoiceOrchestrator</code> using Google ADK. Setting up async dispatching for <code>HeaderAgent</code> and <code>LineItemAgent</code> .	AI Engineer	€ 215	8.0	€ 1,720
<b>Agent Prompt Engineering:</b> Iterative design of prompts for <code>Header</code> extraction (JSON schema enforcement) and <code>Line Item</code> logic (handling <code>ClientCaseNumbers</code> ).	AI Engineer	€ 200	4.0	€ 800
<b>Regex Engine Development:</b> Creating the Shared Regex Tool ( <code>InvoiceRegexExtractor</code> ) for DRY principles. Implementing extraction for KVK, VAT, and Dates.	Python Dev	€ 175	3.0	€ 525
<b>Business Logic Implementation:</b> Coding <code>ClientCaseMatcher</code> with fuzzy logic (Levenshtein/canonical mapping) to handle <code>I/I</code> and <code>O/O</code> OCR/Human errors due CodeGenerator bug in 2024/2025 for using <code>I/O</code> characters in <code>CCN</code>	Python Dev	€ 175	2.0	€ 350

Phase 3: Integration & Tooling

Connecting external APIs and handling edge cases.

	Role	Rate	Hours	Total
<b>Google Vision OCR Integration:</b> Implementing <code>ocr_tools.py</code> for fallback on image-based PDFs using Google Cloud Vision API.	Cloud Engineer	€ 180	4.0	€ 720
<b>Google Workspace Pipeline:</b> Automation of PDF retrieval from Gmail/Drive (Ingestion pipeline).	Integration Specialist	€ 215	2.0	€ 430
<b>Self-Correction Logic:</b> Developing the specific logic in <code>process_invoice.py</code> that triggers OCR tools only when <code>Header</code> data (KVK/VAT) is missing.	AI Engineer	€ 215	4.0	€ 860

Phase 4: Validation & Delivery

Testing frameworks and User Interface.

	Role	Rate	Hours	Total
<b>Evaluation Framework:</b> Building <code>evaluate_capstone.py</code> using <code>DeepDiff</code> to compare Agent output against Ground Truth datasets.	Data Scientist	€ 190	6.0	€ 1,140
<b>UI Development:</b> Creating the end-user interface for "Human-in-the-loop" review (Accept/Reject/Modify invoices).	Frontend Dev	€ 160	7.0	€ 1,120
<b>Documentation &amp; Code Cleanup:</b> Refactoring to Clean Architecture (Modules), writing <code>README</code> and inline documentation.	Technical Writer	€ 150	3.0	€ 450

Totaal excl. BTW	60.0	€ 11,600.00
BTW Hoog 21%		€ 2,436.00
<b>Total</b>		<b>€ 14,036.00</b>