Below are the **key prompts** that the **Prompt Engine** would generate and route to agents and services when the user submits the natural language query:

**"Analyse recent procurement activity in the categories, to understand if there are any differences in the invoice discounts versus the contracted discounts."**

These prompts are grouped by which **agent or service** they target in your Agentic Procurement SaaS system.

**🔁 1. Prompt to Discrepancy Detection Agent**

**🎯 Intent: cross\_validate\_discount\_rates**

{

"intent": "cross\_validate\_discount\_rates",

"agent": "Discrepancy Detection Agent",

"category\_scope": "all",

"compare\_fields": ["contracted\_discount", "invoiced\_discount"],

"timeframe": "last\_12\_months",

"data\_sources": ["contracts", "invoices", "purchase\_orders"],

"filters": {

"invoice\_status": "paid",

"contract\_status": "active"

},

"threshold": {

"minimum\_discount\_gap\_percent": 3

},

"output\_required": [

"items\_with\_discount\_gap",

"total\_affected\_volume",

"supplier\_list",

"price\_variance\_summary"

]

}

**🔁 2. Prompt to Opportunity Miner Agent**

**🎯 Intent: detect\_discount\_discrepancy\_opportunities**

{

"intent": "detect\_discount\_discrepancy\_opportunities",

"agent": "Opportunity Miner Agent",

"input\_from": "Discrepancy Detection Agent",

"scoring\_criteria": {

"price\_variance": {

"5-10%": 6,

"10-15%": 8,

">15%": 10

},

"volume\_impact": {

"£5k–10k": 5,

"£10k–50k": 8,

">£50k": 10

}

},

"opportunity\_classification": "missed\_discount",

"output": [

"opportunity\_score",

"estimated\_overpayment",

"recommended\_action",

"supplier\_rankings"

]

}

**🔁 3. Prompt to Spend Analytics Agent (for context)**

**🎯 Intent: summarize\_discounted\_spend**

{

"intent": "summarize\_discounted\_spend",

"agent": "Spend Analytics Agent",

"group\_by": ["category", "supplier"],

"timeframe": "last\_12\_months",

"metrics": ["volume", "unit\_price", "applied\_discount"],

"filters": {

"invoice\_status": "paid"

},

"output\_required": [

"category\_spend\_summary",

"supplier\_discount\_trends",

"high-spend\_low-discount\_flags"

]

}

**🔁 4. Prompt to LLM Drafting Agent (for supplier engagement)**

**🎯 Intent: draft\_supplier\_discount\_review\_request**

{

"intent": "draft\_supplier\_discount\_review\_request",

"agent": "LLM Drafting Agent",

"supplier\_name": "Acme Industrial Supplies",

"item": "Ergonomic Chair Model X",

"category": "Office Furniture",

"actual\_unit\_price": 145.00,

"expected\_discounted\_price": 130.00,

"volume\_last\_12\_months": 1200,

"discount\_threshold": 1000,

"price\_variance\_percent": 10.3,

"requested\_action": "Confirm whether volume-based discounts were applied correctly, and provide a pricing correction if applicable.",

"response\_due\_date": "2025-08-05"

}

**🔁 5. Prompt to Policy Engine Agent**

**🎯 Intent: evaluate\_discount\_discrepancy\_policy**

{

"intent": "evaluate\_discount\_discrepancy\_policy",

"agent": "Policy Engine Agent",

"policy": "Contract Discount Enforcement Policy",

"inputs": {

"supplier": "Acme Industrial Supplies",

"category": "Office Furniture",

"actual\_discount": 0,

"contracted\_discount": 10,

"total\_spend": 180000,

"opportunity\_score": 8.3

},

"thresholds": {

"score\_trigger\_escalation": 7.5

},

"output": {

"decision": "escalate",

"route\_to": "Human-in-the-Loop Agent"

}

}

**🔁 6. Prompt to Audit Trail Agent**

**🎯 Intent: log\_discount\_discrepancy\_event**

{

"intent": "log\_discount\_discrepancy\_event",

"agent": "Audit Trail Agent",

"event\_type": "discount\_discrepancy\_detected",

"supplier": "Acme Industrial Supplies",

"item": "Ergonomic Chair Model X",

"detected\_by": "Opportunity Miner Agent",

"variance\_percent": 10.3,

"volume": 1200,

"estimated\_savings": 18000,

"action\_taken": "escalated\_to\_buyer",

"timestamp": "2025-07-20T12:00:00Z"

}

Would you like these saved into:

* A **Prompt Library JSON bundle**?
* A **.docx catalog** for your product documentation?
* YAML files for developer integration?

Let me know how you’d like to deploy or present them.