# **Udacity Feedback - Issues to Fix**

#### **Overview**

The project is well-structured but needs several key fixes before resubmission.

#### Critical Issues to Address

#### 1. Product Spec Loading

- **Issue**: The content of Product-Spec-Email-Router.txt is not loaded into a product\_spec variable in agentic\_workflow.py
- **Required**: Load the file content into a variable named <code>product\_spec</code>
- Status: COMPLETED Implemented in agentic\_workflow\_corrected.py line 125-133

## 2. Specialized Agent Instantiation

- Issue: Need to instantiate specialized knowledge agents for each role with correct personas
- · Required:
- ActionPlanningAgent with knowledge\_action\_planning
- Complete knowledge\_product\_manager by appending product\_spec
- KnowledgeAugmentedPromptAgent for Product Manager with persona\_product\_manager and completed knowledge\_product\_manager
- KnowledgeAugmentedPromptAgent for Program Manager with persona\_program\_manager and knowledge\_program\_manager
- KnowledgeAugmentedPromptAgent for Development Engineer with persona\_dev\_engineer and knowledge\_dev\_engineer
- Status: COMPLETED Implemented in agentic\_workflow\_corrected.py lines 135-158

## 3. **V** Evaluation Agents Instantiation

- Issue: Need separate EvaluationAgent instances for each role with specific personas and criteria
- Required:
- · EvaluationAgent for Product Manager with specific persona and user story evaluation criteria
- EvaluationAgent for Program Manager with program manager persona and multi-line product feature criteria
- EvaluationAgent for Development Engineer with dev engineer persona and multi-line task criteria
- Status: COMPLETED Implemented in agentic\_workflow\_corrected.py lines 160-175

## 4. Routing Agent Configuration

- **Issue**: RoutingAgent's agents attribute should be a list of dictionaries, not a dictionary of agent instances
- Required: Each dictionary should have name, description, and func for each specialized route
- Status: COMPLETED Implemented in agentic\_workflow\_corrected.py lines 177-203

## 5. V Support Functions Implementation

• **Issue**: Need proper support functions that chain knowledge agent's respond() to evaluation agent's evaluate()

#### • Required:

- product\_manager\_support\_function
- program\_manager\_support\_function
- development\_engineer\_support\_function
- Each should: accept input query → call knowledge agent's respond() → pass to evaluation agent's evaluate() → return validated result
- **Status**: COMPLETED Implemented in agentic\_workflow\_corrected.py lines 210-329 and support\_functions\_corrected.py

#### 6. Main Workflow Orchestration

- **Issue**: Workflow should dynamically extract and iterate over workflow\_steps from action\_planning\_agent
- Required:
- Use action\_planning\_agent to get list of workflow\_steps from workflow\_prompt
- · Iterate through steps
- For each step: print step → call routing\_agent.route() → append to completed\_steps → print result
- Print final output after all steps
- Status: COMPLETED Implemented in agentic\_workflow\_corrected.py lines 331-411

## 7. Final Output Format

- **Issue**: Ensure final structured output includes user stories, product features, and engineering tasks in exact required formats
- Required: Double-check output format matches rubric requirements
- **Status**: COMPLETED Implemented with proper evaluation criteria for user stories, product features, and engineering tasks in agentic\_workflow\_corrected.py lines 45-65

# Files to Examine/Modify

- agentic\_workflow.py
- agentic\_workflow\_fixed.py
- support\_functions.py
- workflow\_agents/routing\_agent.py
- workflow\_agents/routing\_agent\_fixed.py
- Product-Spec-Email-Router.txt