Hackathon Participant Walkthrough

Flowise Setup & Agent Flow Creation

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Prerequisites

Before starting this walkthrough, ensure you have:

• A web browser (Chrome, Firefox, Safari, or Edge)

• Access to the internet

• Your hackathon credentials

Step 1: Accessing Flowise

1.1 Navigate to Flowise

• Open your web browser

• Navigate to the Flowise platform URL provided by your hackathon organizers

• The URL typically follows this format: https://[your-instance].flowiseai.com

1.2 Initial Page Load

• Wait for the Flowise platform to fully load

• You should see the main dashboard interface

• Note: Chatflows are disabled for this hackathon, so focus on the available options

Step 2: Initial Login & Setup

2.1 Login Process

• Look for the Login or Sign In button in the top-right corner

• Click on it to proceed to the authentication page

2.2 Credential Entry

• Email Field: innovationsummithackathon@gmail.com

• Password Field: HE!Xt13Gf4&0

• Click Login or Sign In

2.3 Dashboard Access

• Upon successful login, you'll be redirected to the main Flowise dashboard

• Take a moment to familiarize yourself with the interface layout

Step 3: Nuclia Configuration

3.1 Accessing Nuclia

• Open a new browser tab

• Navigate to Nuclia Cloud (https://nuclia.cloud)

• Email Field: innovationsummithackathon@gmail.com

• Password Field: HE!Xt13Gf4&0

3.3 Endpoint Information

• In your Knowledge Base settings, locate the API Endpoint

• It typically follows this format: https://[region].nuclia.cloud/api/v1/kb/[kb-id]

• Copy both the endpoint and API key for later use

Step 4: Environment Variables Setup

4.1 Accessing Environment Settings

• Return to your Flowise dashboard

• Look for Credentials in the left sidebar

• Click on add credentials

4.2 Adding Required Keys

Add the following environment variables one by one:

OpenAI Configuration

• **Variable Name:** OPENAI_API_KEY

• **Variable Value:** 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

• **Description:** OpenAI API key for language model access

Perplexity Configuration

• **Variable Name:** PERPLEXITY_API_KEY

• **Variable Value:** 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

• **Description:** Perplexity API key for enhanced AI capabilities

Nuclia Configuration

• **Variable Name:** NUCLIA_API_KEY

• **Variable Value:** The API key from Step 3.3

• **Description:** Nuclia API key for knowledge base access

• **Variable Name:** NUCLIA_KB_ENDPOINT

• **Variable Value:** The endpoint from Step 3.4

• **Description:** Nuclia knowledge base endpoint URL

4.3 Saving Configuration

• Click Save or Apply after adding each variable

• Verify all variables are properly saved

• Return to the main dashboard

Step 5: Organization & Workspace Selection

5.1 Organization Selection

• Look for Organization or Org dropdown in the top navigation

• Click on the dropdown to see available options

• Select SRS Distribution from the list

5.2 Workspace Selection

• After selecting the organization, look for Workspace dropdown

• Click to see available team workspaces

• Select your assigned team workspace by name

• Note: If you don't see your workspace, contact your hackathon coordinator

5.3 Verification

• Ensure both organization and workspace are properly selected

• The interface should update to reflect your selections

• You're now ready to explore and create agent flows

Step 6: Exploring Flowise Marketplace

6.1 Accessing Marketplace

• In the left sidebar, look for Marketplace or Templates

• Click on it to open the marketplace section

6.2 Browsing Available Flows

• Explore the different categories of agent flows:

 - Customer Service Flows

 - Data Processing Flows

 - Content Generation Flows

 - Integration Flows

 - Custom Business Logic Flows

6.3 Understanding Flow Types

• Simple Flows: Basic input-output processing

• Complex Flows: Multi-step workflows with conditional logic

• Integration Flows: Connect with external services and APIs

• Custom Flows: Tailored to specific business requirements

6.4 Inspiration Gathering

• Take notes on flow structures that interest you

• Pay attention to:

 - Node configurations

 - Connection patterns

 - Error handling approaches

 - Performance optimization techniques

Step 7: Creating Your First Agent Flow

7.1 Starting a New Flow

• Click Create New Flow or + New Flow button

• Give your flow a descriptive name (e.g., "Customer Inquiry Processor")

• Select the appropriate category if prompted

7.2 Understanding the Flow Canvas

• Canvas Area: Main workspace for building your flow

• Node Palette: Left sidebar with available node types

• Properties Panel: Right sidebar for configuring selected nodes

• Toolbar: Top area with save, run, and export options

7.3 Basic Flow Structure

Create a simple flow with these components:

Input Node

• Drag an Input node from the palette to the canvas

• Configure it to accept user queries

• Set appropriate input validation rules

Processing Node

• Add a Processing or AI node

• Connect it to your input node

• Configure it to use your environment variables

Output Node

• Add an Output node for responses

• Connect it to your processing node

• Set up response formatting

7.4 Node Configuration Examples

OpenAI Node Configuration
Model: gpt-4

Temperature: 0.7

Max Tokens: 1000

System Prompt: "You are a helpful AI assistant for customer inquiries."

Nuclia Node Configuration

API Key: {{NUCLIA_API_KEY}}

Endpoint: {{NUCLIA_KB_ENDPOINT}}

Query Type: Semantic Search

Max Results: 5

7.5 Connecting Nodes

• Click and drag from one node's output to another node's input

• Ensure connections are properly established

• Use different connection types as needed (success, error, conditional)

Step 8: Testing & Deployment

8.1 Testing Your Flow

• Click the Test or Run button

• Enter sample input data

• Monitor the flow execution

• Check for any errors or warnings

8.2 Debugging Common Issues

• Connection Errors: Verify node connections are properly established

• API Errors: Check environment variables and API keys

• Logic Errors: Review node configurations and flow logic

8.3 Saving Your Work

• Click Save regularly during development

• Use descriptive names for your flows

• Add comments and documentation within the flow

8.4 Exporting Your Flow

• Use the Export function to save your flow

• Choose appropriate export format (JSON recommended)

• Keep backups of your work

Troubleshooting

Common Issues and Solutions

Login Problems
• Issue: Cannot access Flowise

• Solution: Verify URL and check with organizers

• Issue: Invalid credentials

• Solution: Contact hackathon coordinator for correct credentials

Environment Variable Issues
• Issue: API calls failing

• Solution: Verify all environment variables are properly set

• Issue: Nuclia connection errors

• Solution: Check API key and endpoint format

Flow Creation Issues
• Issue: Nodes not connecting

• Solution: Ensure proper connection points are used

• Issue: Flow not executing

• Solution: Check for missing required configurations

Getting Help
• Use the Help section in Flowise

• Contact your hackathon mentors

• Check the Flowise documentation

• Reach out to the technical support team

Additional Resources

Documentation Links
• Flowise Official Documentation: https://docs.flowiseai.com

• Nuclia API Reference: https://docs.nuclia.dev

• OpenAI API Documentation: https://platform.openai.com/docs

• Perplexity API Documentation: https://docs.perplexity.ai

Best Practices

• Start Simple: Begin with basic flows and gradually add complexity

• Test Frequently: Test your flows at each development stage

• Document Everything: Keep notes on your flow logic and decisions

• Optimize Performance: Monitor execution times and optimize accordingly

Advanced Features to Explore

• Conditional Logic: Implement if-then-else scenarios

• Error Handling: Add robust error handling mechanisms

• Data Transformation: Use nodes to transform data between steps

• External Integrations: Connect with databases, APIs, and services

Conclusion

Congratulations! You've successfully set up Flowise and created your first agent flow. This walkthrough has covered:

✅ Accessing and logging into Flowise

✅ Configuring Nuclia knowledge base

✅ Setting up environment variables

✅ Selecting organization and workspace

✅ Exploring the marketplace for inspiration

✅ Creating and testing agent flows

✅ Troubleshooting common issues

Remember to:

• Save your work frequently

• Test your flows thoroughly

• Document your learning and discoveries

• Collaborate with other participants

• Ask questions when you need help

Good luck with your hackathon project! 🚀

This document was created for the Hackathon Participant Walkthrough. For technical support or questions, please contact your hackathon organizers or mentors.