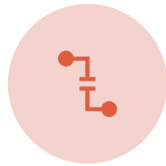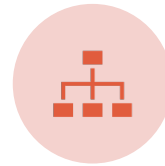# Agentic AI Agent Design Studio Process

Introduction

Agentic AI is a powerful new capability within computing that leverages generative AI to represent traditionally human behaviors within a process context

Those who have used generative tools, such as ChatGPT, Copliot or Claude are familiar with what these tools can produce when provided the right prompt and have the right training

Agents are ecosystems of encapsulated capabilities that includes memory, ability to incorporate external systems and communicate with other agents to achieve goals in an autonomous manner
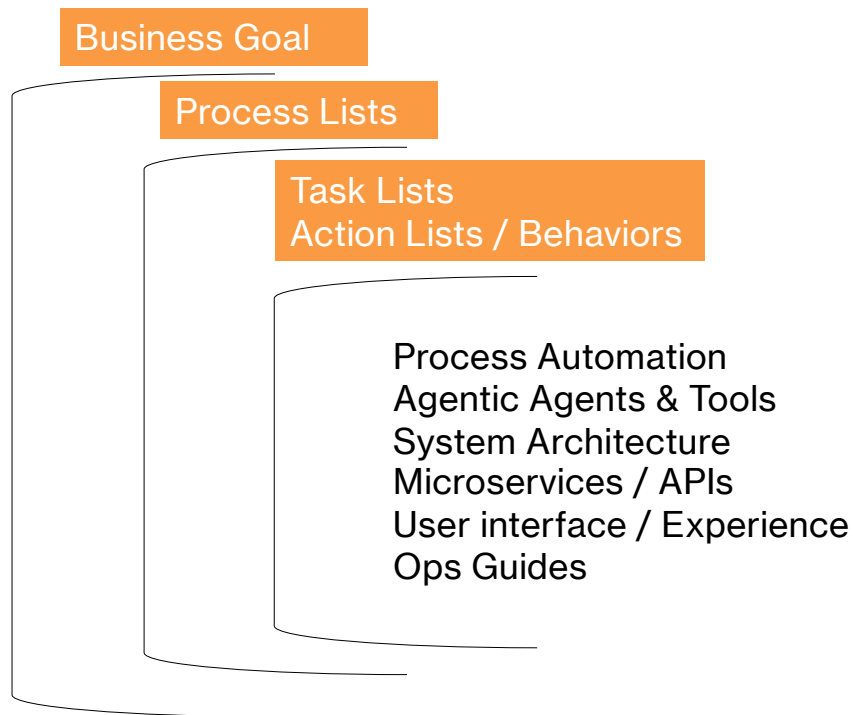
Preparing and designing your agent architecture is a very complex endeavor that requires deep understanding of large-language models (LLM) and agent architectures.

Agentic AI Design Studio provides a repeatable and successful process to move from business goal to agentic ai systems

Decomposing The Business Requirements Into System Deliverables

Business Goal

Process Lists

Task Lists
Action Lists / Behaviors

Process Automation
Agentic Agents & Tools
System Architecture
Microservices / APIs
User interface / Experience
Ops Guides

- Generative AI can, with the right training, produce insights into data that most humans miss

- Generative AI produces unstructured outputs which is not useful for workflows and process automation which rely on structured inputs and outputs

- Putting the two together to deliver on a business goal requires **decomposition**

Studio Elements

Business Goal	Process Lists	Tasks Lists / Action Lists / Behaviors	Technology Implementation
• The Agentic AI Design Studio starts with a complete understanding of the business goal inclusive of the industry requirements and constraints	• The next step is to capture the current processes that are used to achieve the business goal or parts of the business goal today. If needed process mining tools can be used to assist with capture of this data. If mining tools are to be used, discovery should occur prior to the studio so that the data can be used to assist with decomposition.	• Processes are further broken down into tasks that can be implemented using automation technologies. • Action lists and behaviors are alternative expressions of tasks that cannot necessarily be captured using common automation technologies, but are achievable with Generative AI	• At the conclusion of the studio we will spend time framing out the concept of the system, identifying data sources and expressing data flows in a means to come to agreement on what a Minimal Viable Product (MVP) would entail.

Studio Participants

Business Owner

This is the individual who is responsible for owning the business outcome. They will express the desired outcome of the studio efforts and expectations for the implementation of the technological effort.

Product Owner

This is the person that will be responsible for decisions and prioritization of efforts with regard to the MVP and follow on build out activities.

Systems Representatives

These are individuals that can provide input into the decomposition process, that understand what systems and data are available today to support the efforts, and can provide guidance on pragmatism of approach of the system design.

Frequently Asked Questions

How long does a typical Design Studio engagement last?

- Most Design Studio engagements run from two to four days with an expectation that there will be up to a week of preparation leading up to the Design Studio session

Where is the Design Studio session held?

- The Design Studio session can be held onsite at the business's offices, but we have found when it is that it's very easy to disrupt and pull people out of the session to address other business issues. For that reason, you may want to consider holding the Design Studio session offsite.

If I choose not to continue with the development of the system, are the artifacts produced mine to keep?

- Yes, the artifacts are yours and there's no requirement to continue into the next phase of delivery once the Design Studio session is complete.

Case Study – Major Commercial Valve Distributor

- The studio method was used to assist a major valve distributor with optimizing their intake and repair process and increase flow by 45%

Questions