



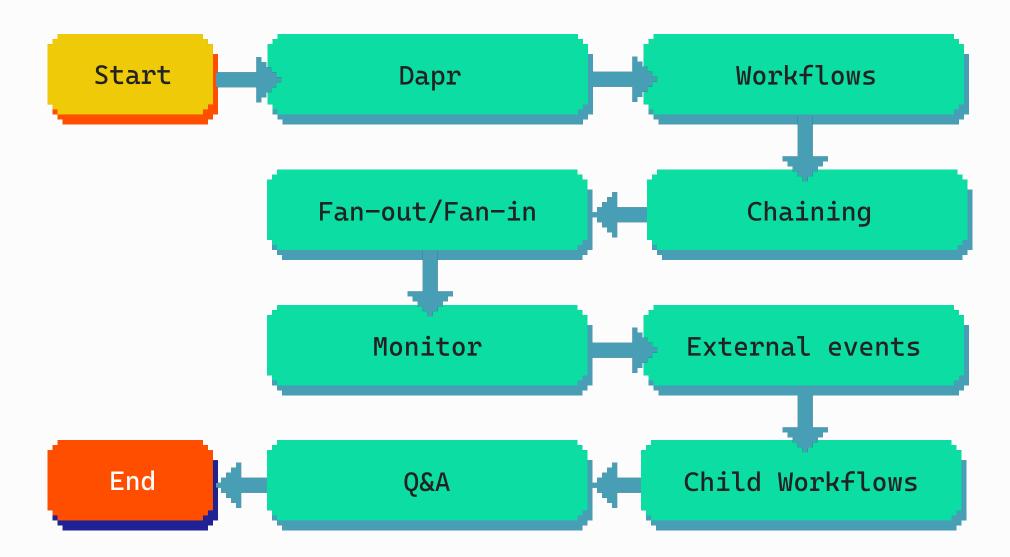


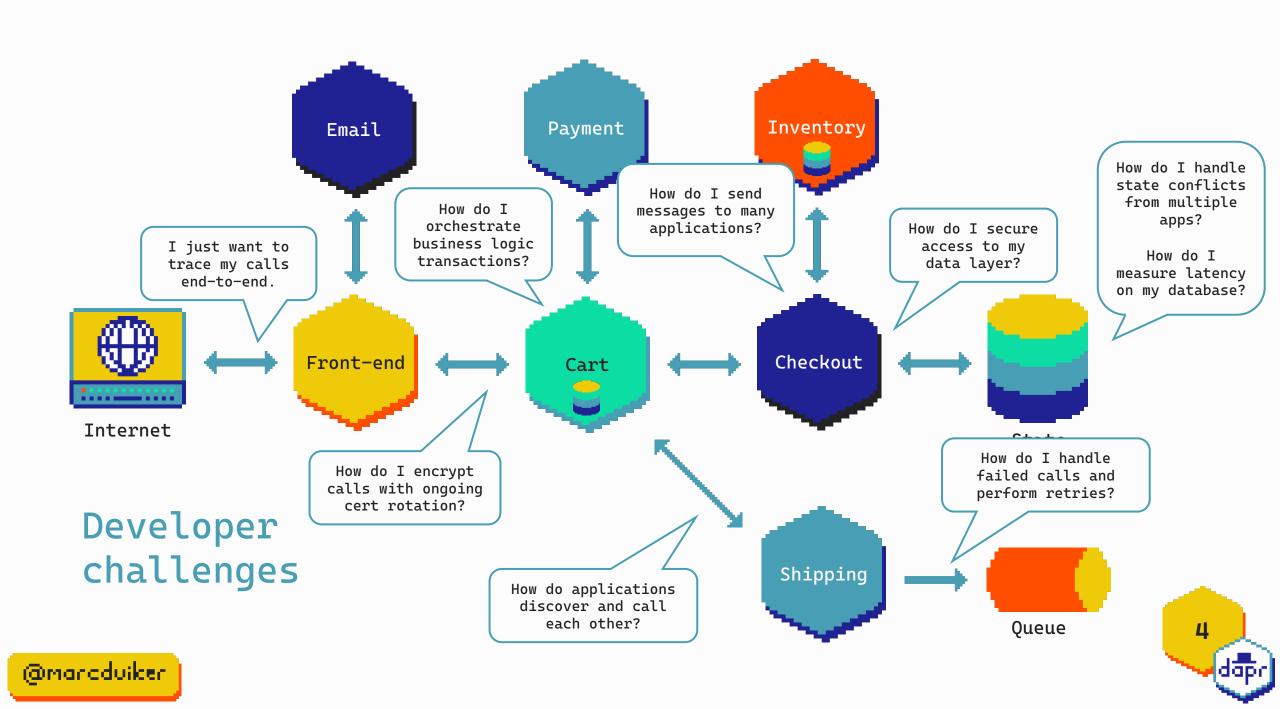


Azure MVP

Dapr Community
Manager

pixel art





Distributed application runtime





Speeds up microservice development by providing an integrated set of APIs for communication, state, and workflow.



Built-in security, resiliency and observability capabilities.















virtual or physical machines



Contributing organizations





















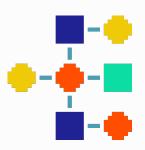








Dapr APIs



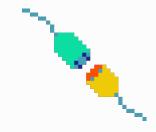
Service invocation



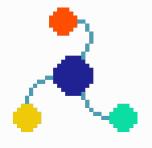
State Management



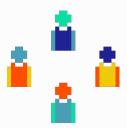
Publish & subscribe



Bindings (input & output)



Observability



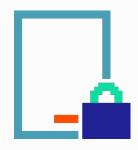
Actors



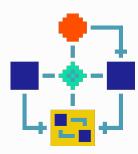
Secret Stores



External Configuration

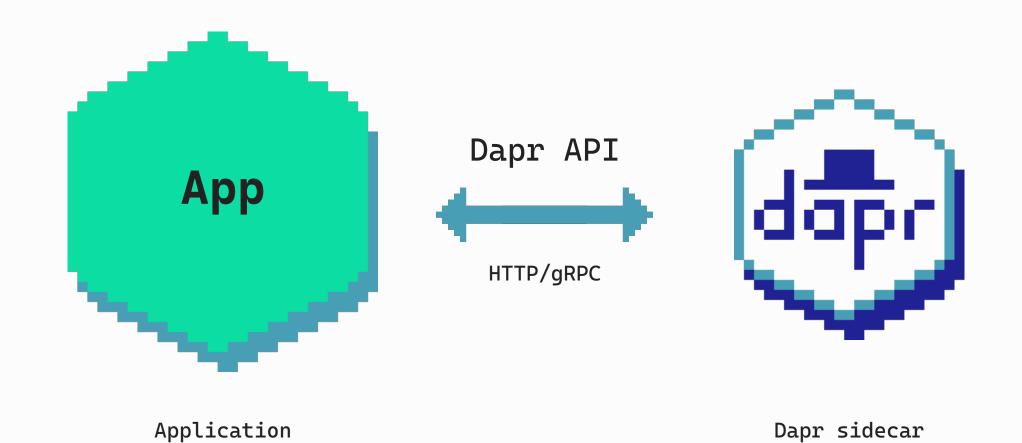


Distributed Lock

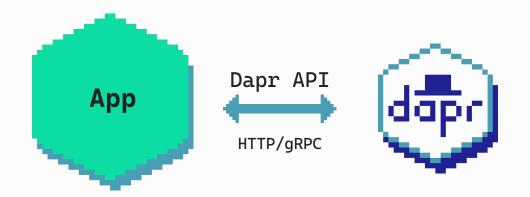


Workflows









POST http://localhost:3500/v1.0/invoke/cart/method/order

GET http://localhost:3500/v1.0/state/inventory/item50

POST http://localhost:3500/v1.0/publish/mybroker/order-messages

GET http://localhost:3500/v1.0/secrets/vault/password42

POST http://localhost:3500/v1.0-beta1/workflows/dapr/businessprocess/start







Redis Firebase



Azure CosmosDB



DynamoDB



State Management





Datadog









Observability

App Insights

Prometheus

Zipkin

Compon**≜**R**t**s

Jeager

Redis



Pub/Sub

GCP

GCP



Service Bus

Azure AWS

Publish & subscribe

Configuration



Redis

Azure App Configuration



Secrets

Kubernetes HashiCorp



Secret mngr



Azure



KeyVault Secrets mngr



SQS

Secret Stores





Distributed Lock

Redis







MongoDB

Vault



Redis



Azure

CosmosDB





DynamoDB







Kafka



Storage



Azure

Storage











Workflows



Dapr Workflow

13



Workflows



A sequence of tasks or activities that are performed to accomplish a specific goal.



Business Process Automation













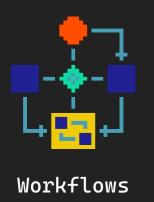






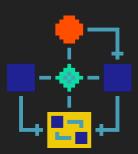
Dapr workflow works with all the other integrated APIs



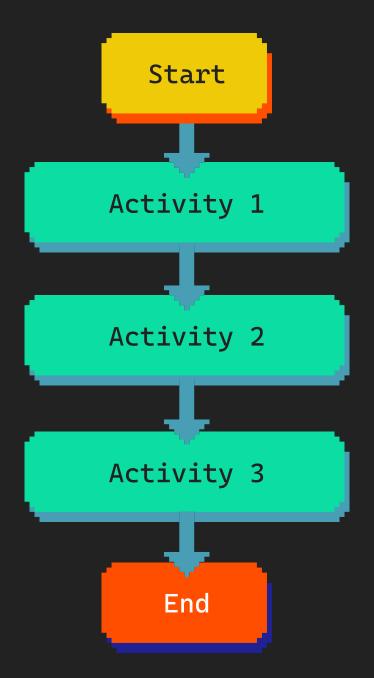


Workflow patterns

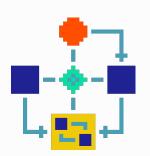


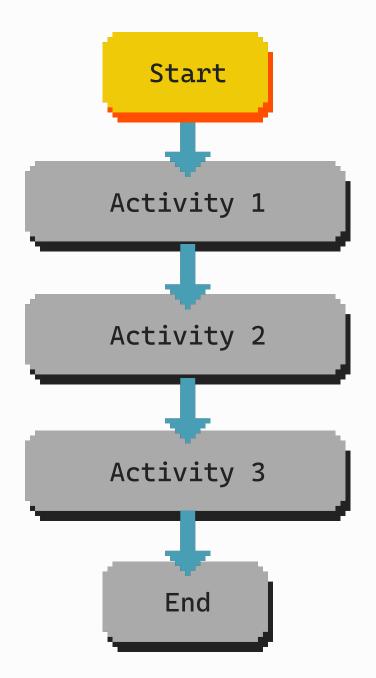


Workflows

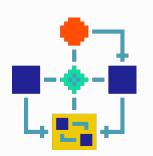


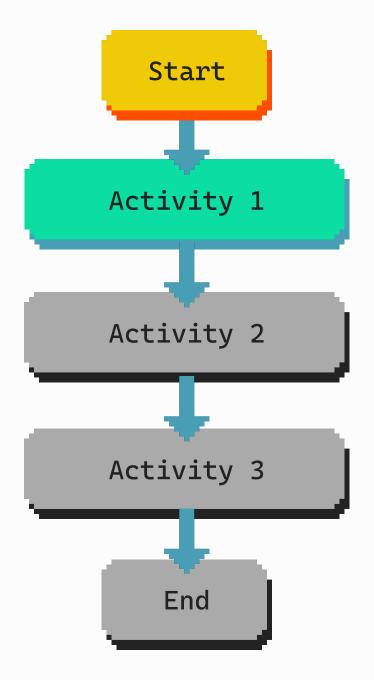




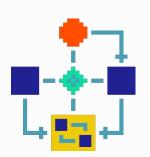


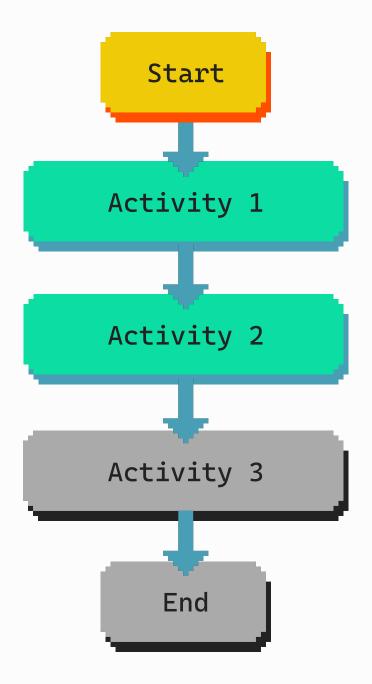




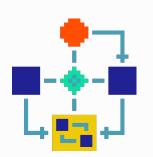


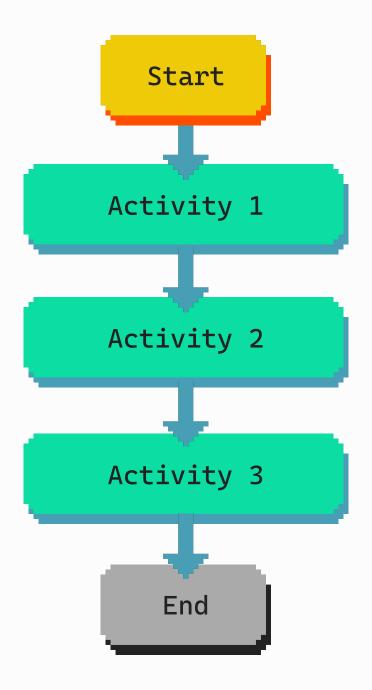




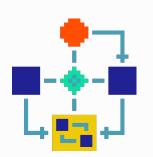


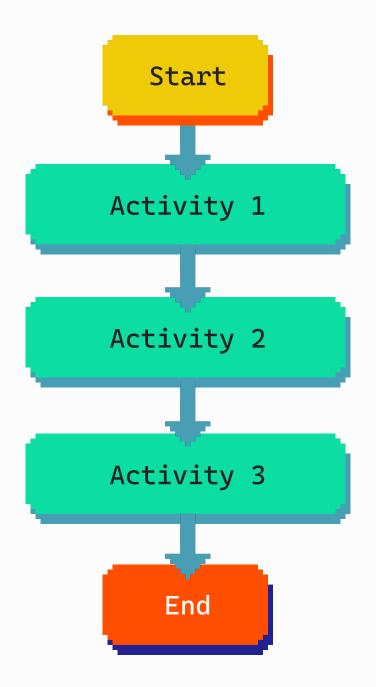




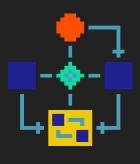












Workflows

Start







Activity 1

Activity 2

Activity 3

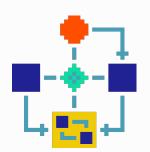






End





Start

Fan-out fan-in



Activity 1

Activity 2

Activity 3

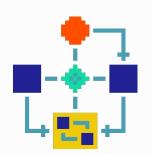












Start

Fan-out fan-in







Activity 1

Activity 2

Activity 3

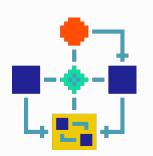












Start

Fan-out fan-in



Activity 1

Activity 2

Activity 3

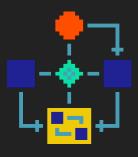




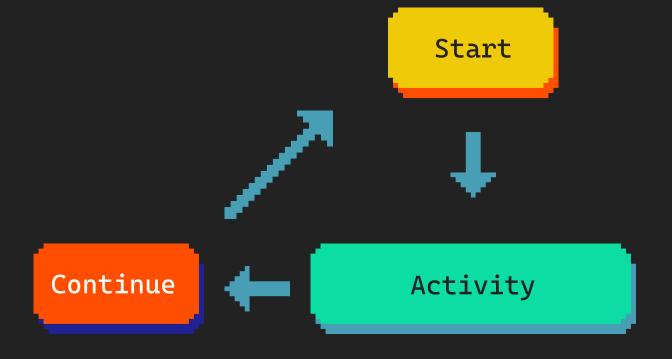


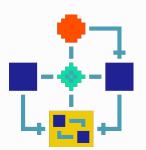


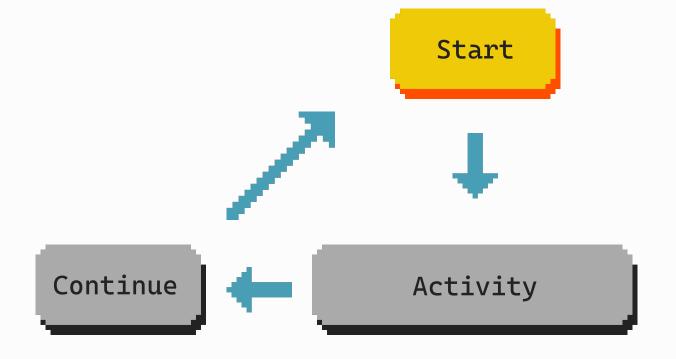




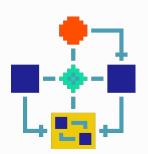
Workflows

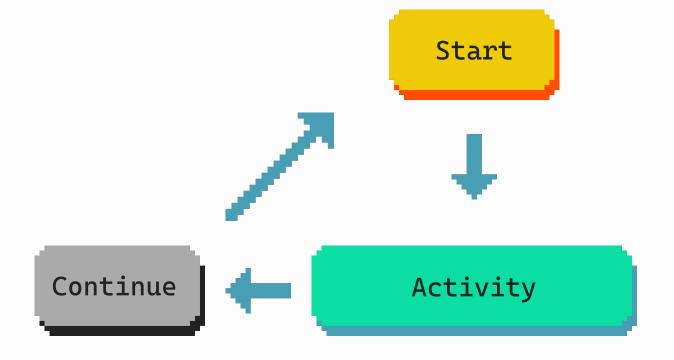




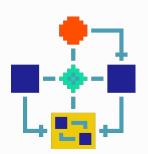


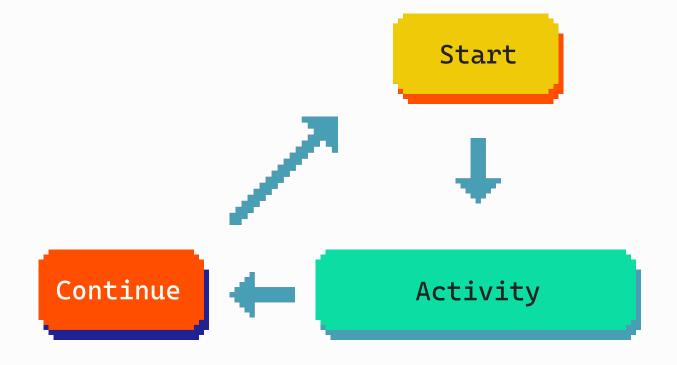




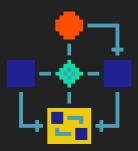




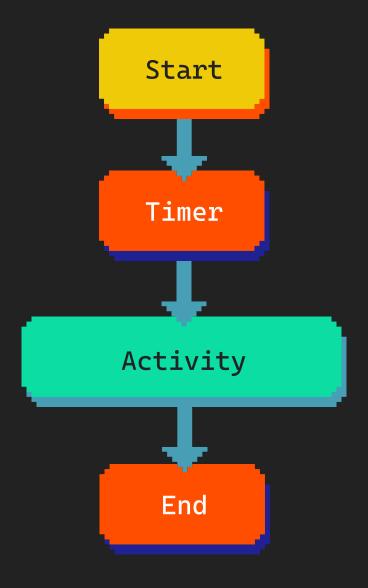


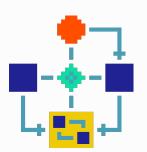


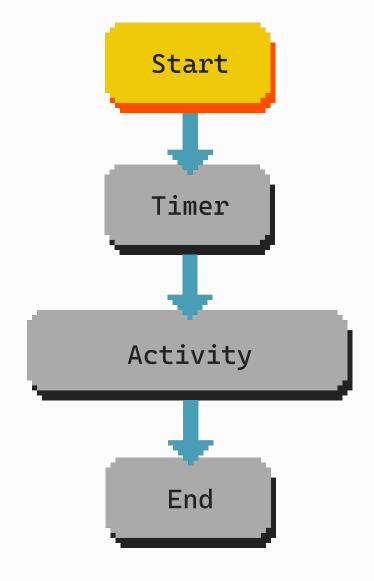




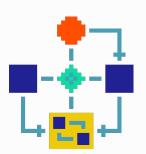
Workflows

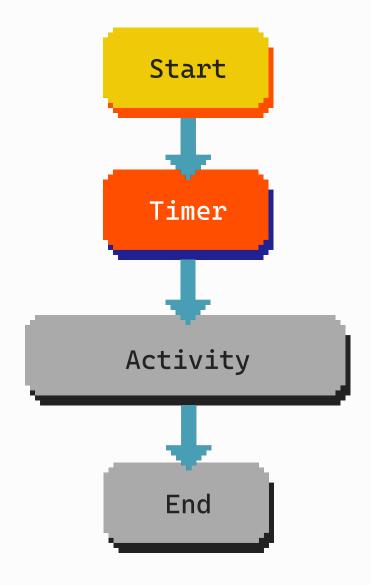




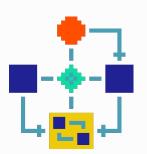


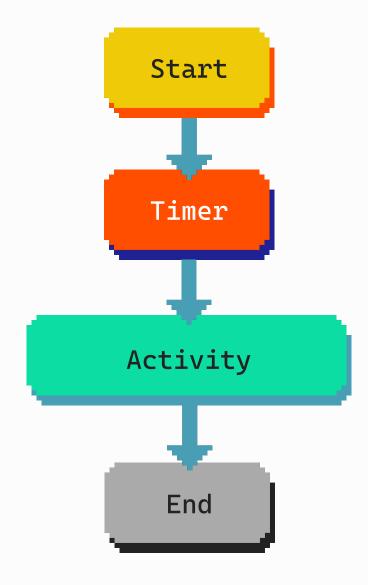




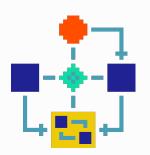




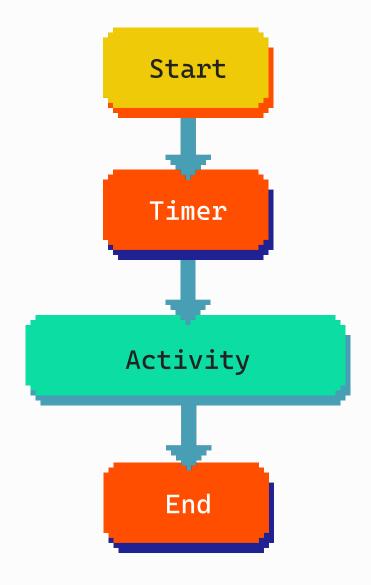




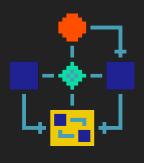


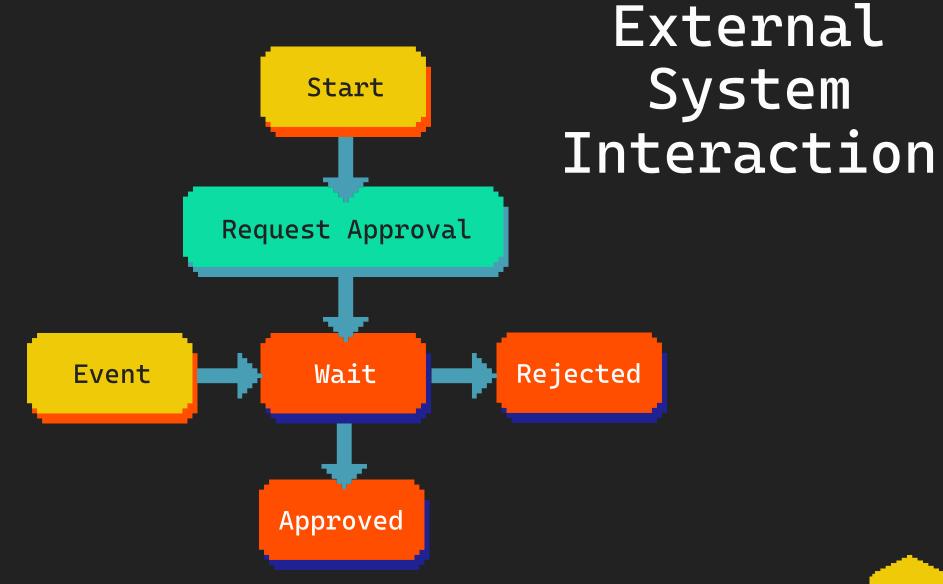


Timer

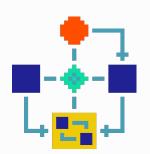


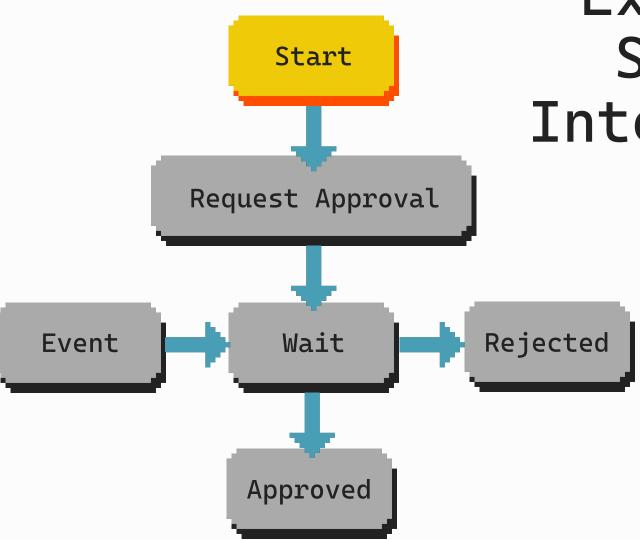


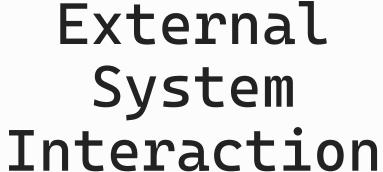


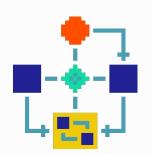


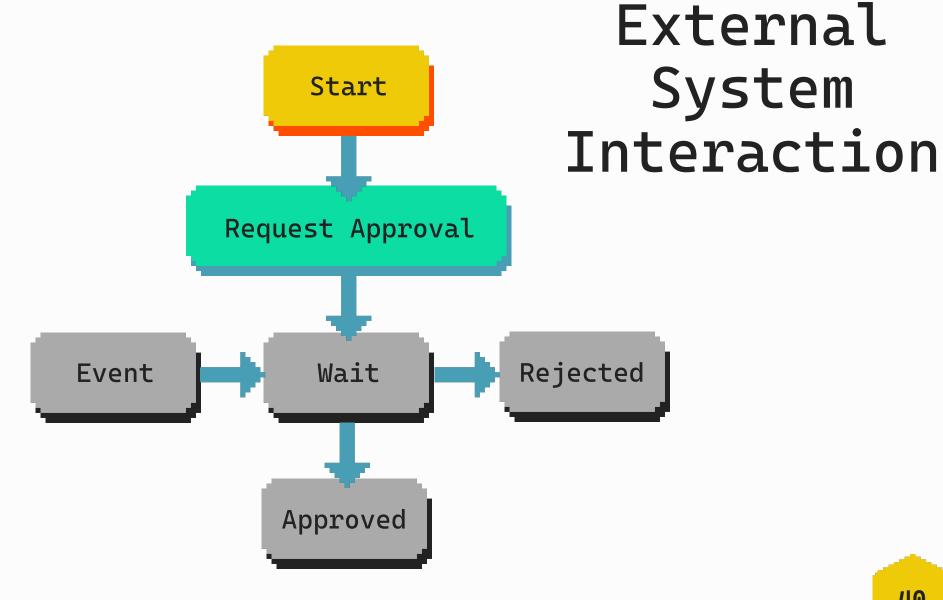




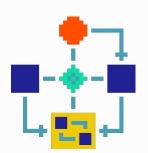


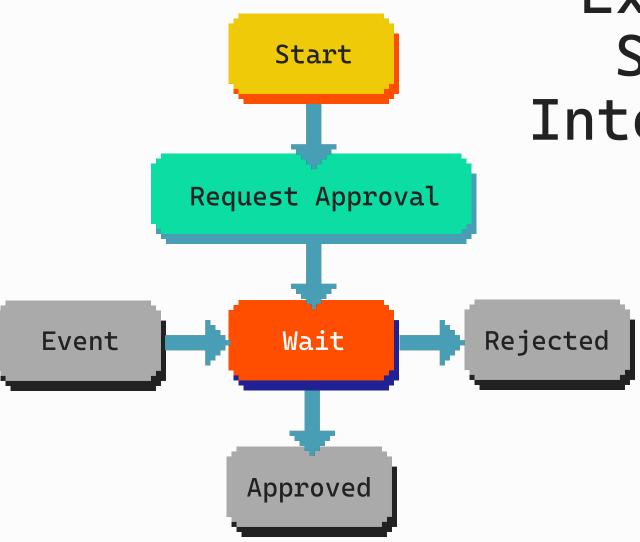


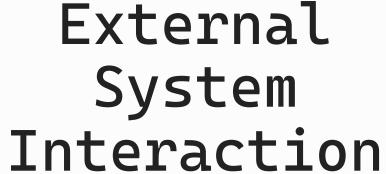




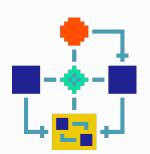


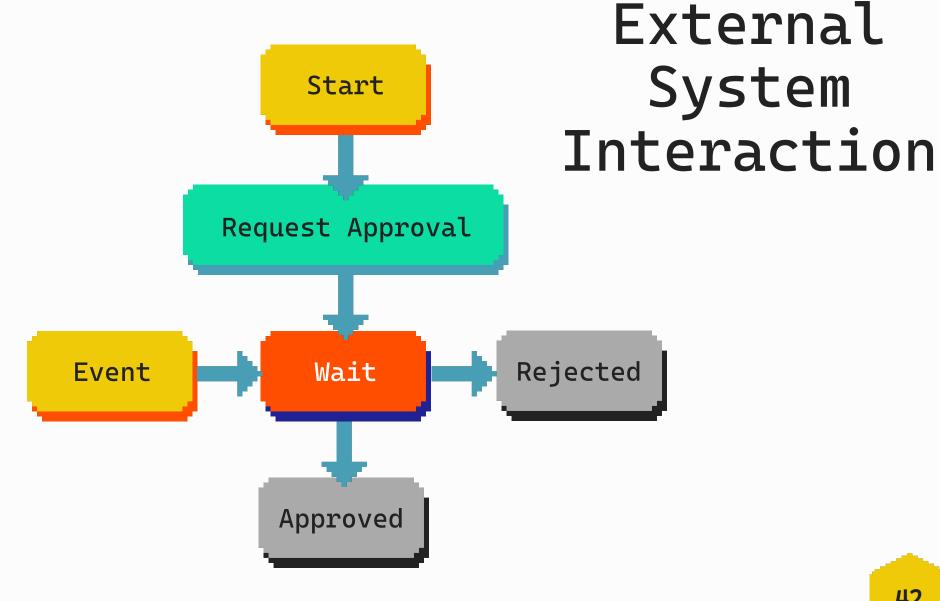




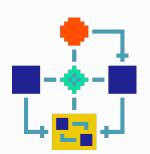


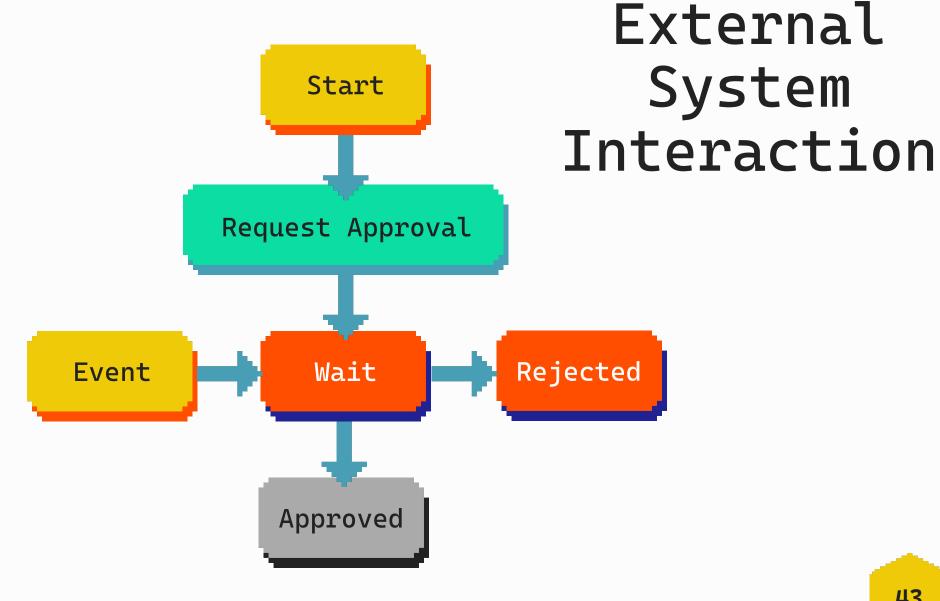




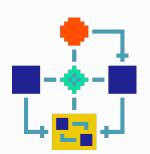


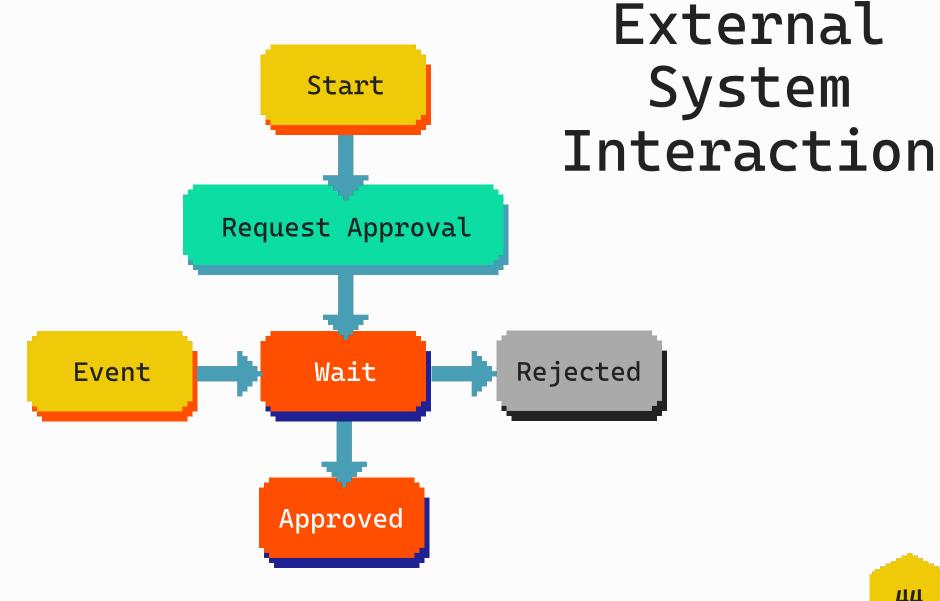








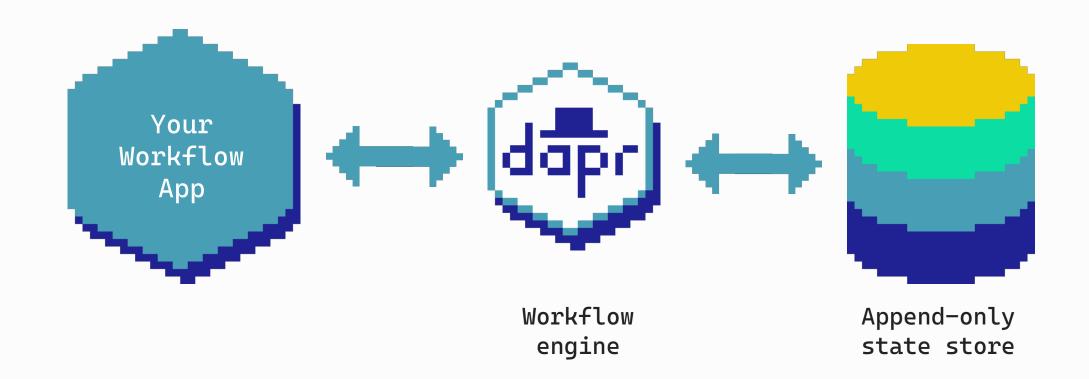




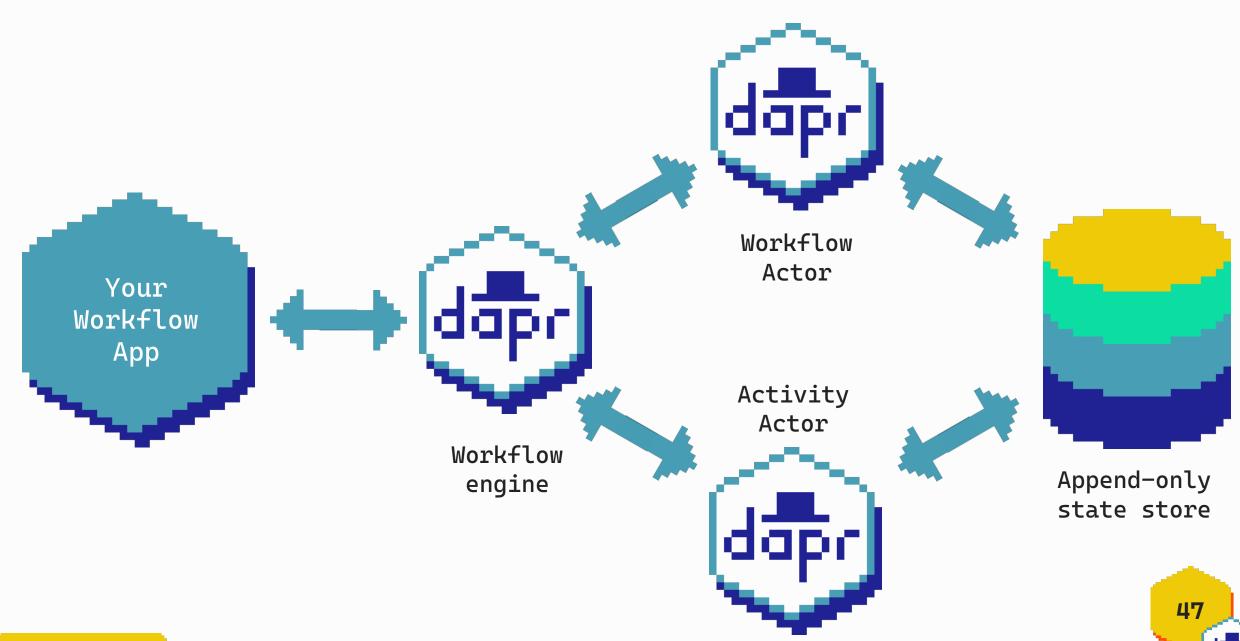


The workflow engine

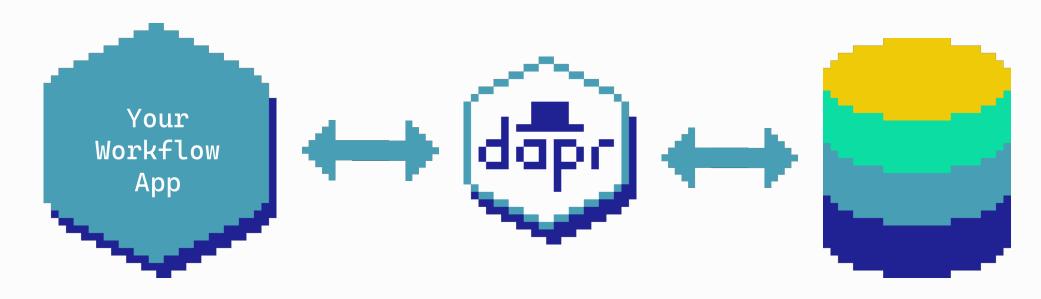








@manaduiken

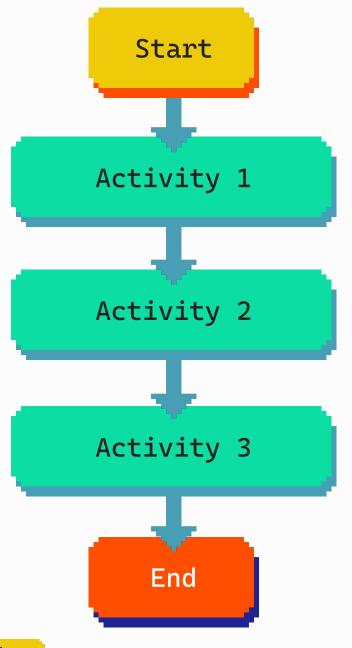


Contains definition of a sequence of activities

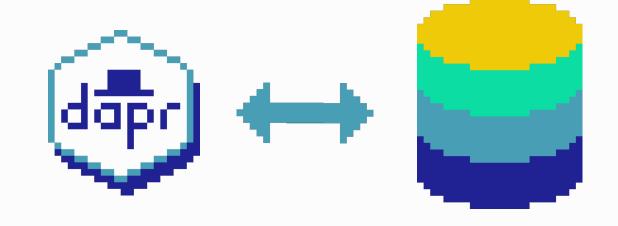
Schedules and manages activity executions (incl resiliency)

Contains workflow state, input and outputs of activities

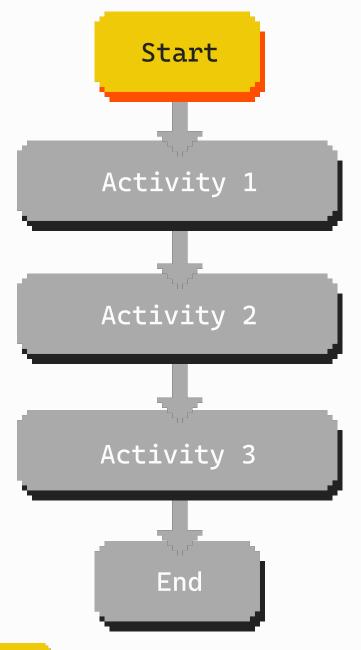




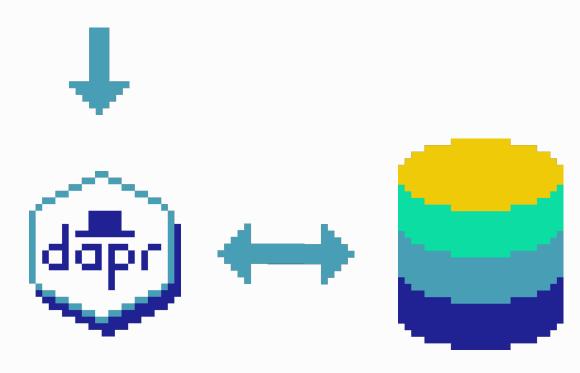
Replay & checkpointing





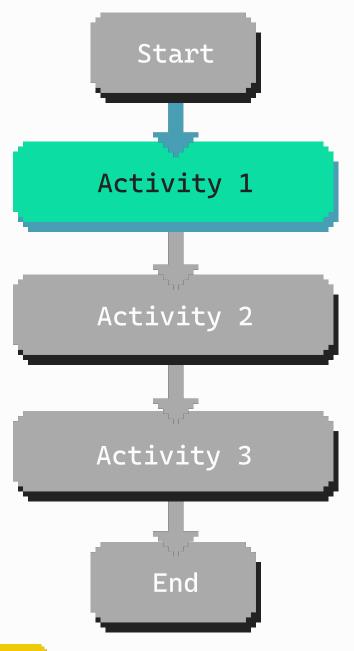


Start Workflow



Store start & input

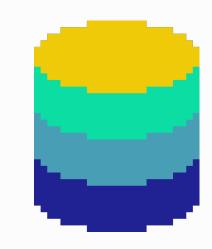




Schedule & execute Activity 1

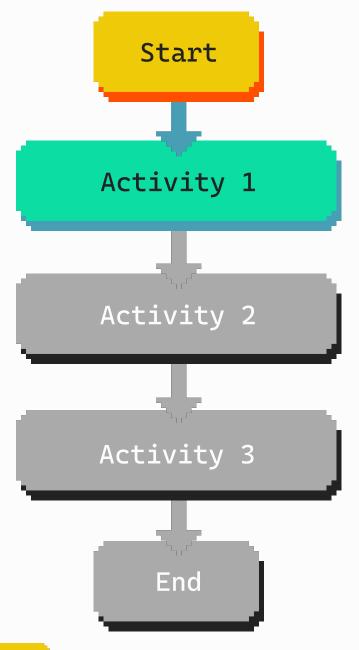




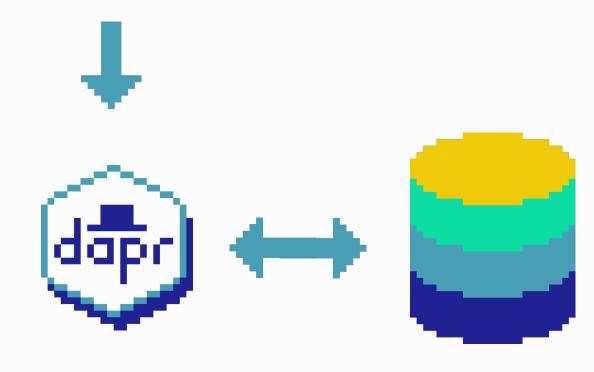


Store input & output



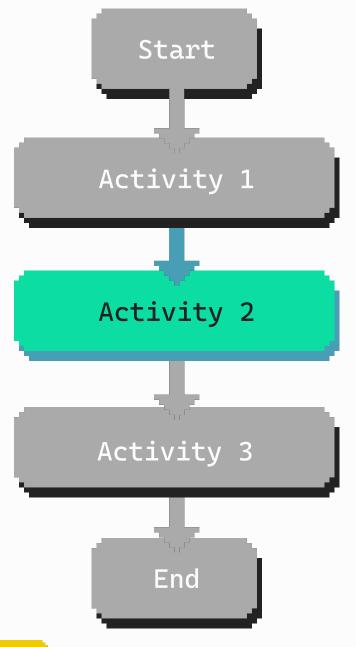


Replay Workflow

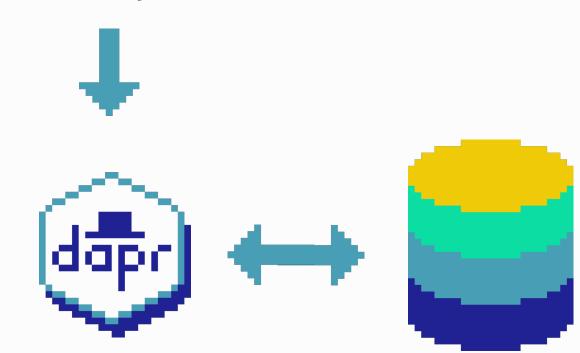


Activity 1 has been executed already



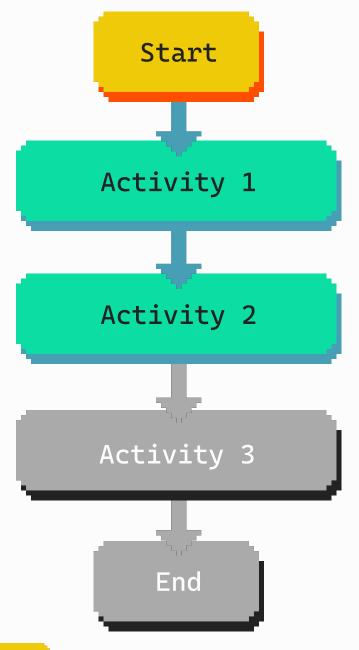


Schedule & execute Activity 2

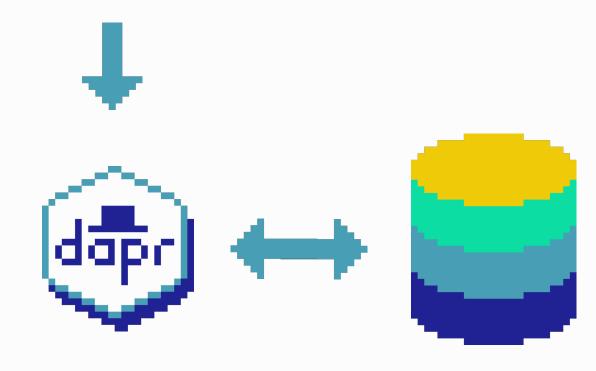


Store input & output



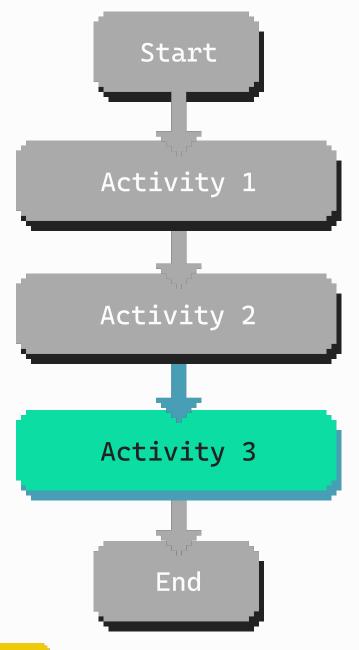


Replay Workflow

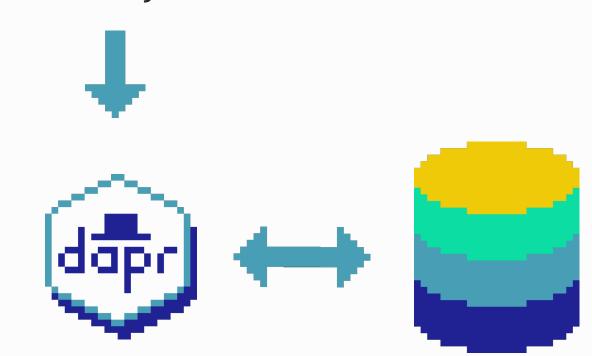


Activity 1 & 2 have been executed already



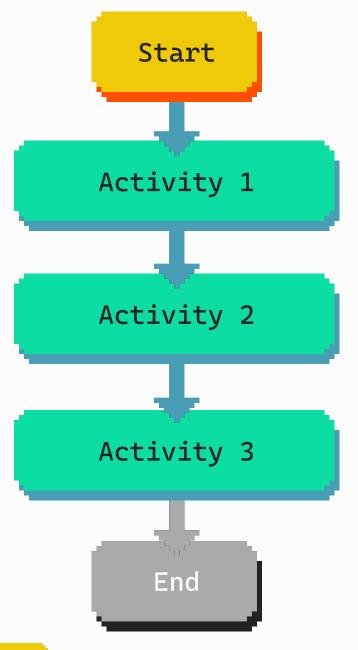


Schedule & execute Activity 3

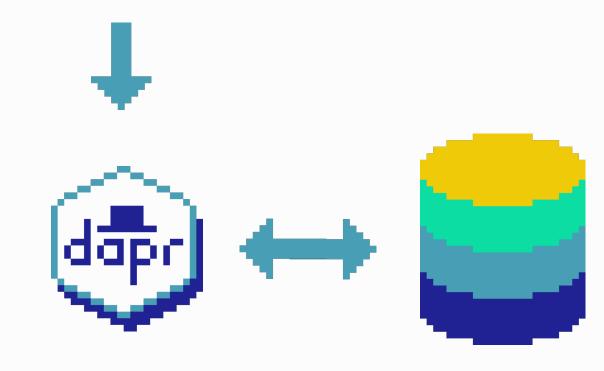


Store input & output



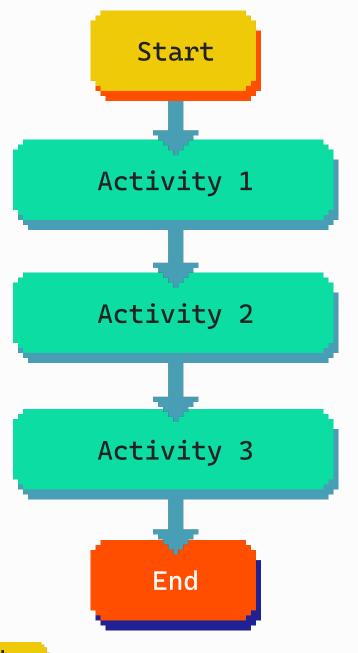


Replay Workflow

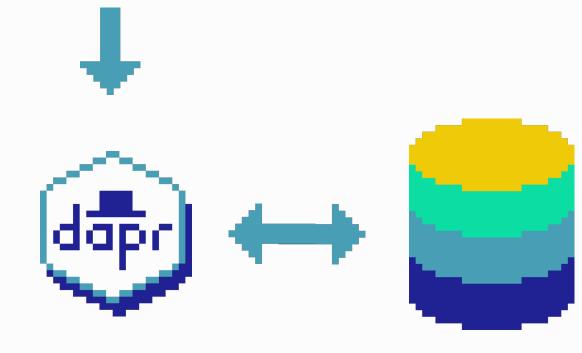


Activity 1,2 & 3 have been executed already





Workflow is completed



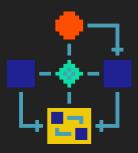
Store completion & output



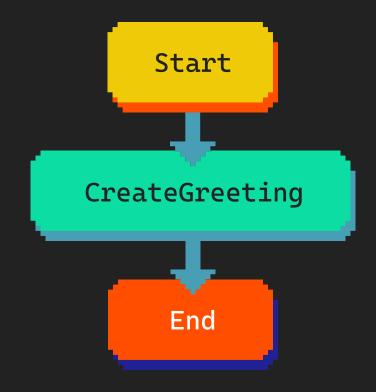
Workflow demos

github.com/diagrid-labs/dapr-workflow-demos

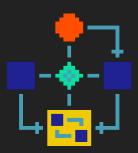


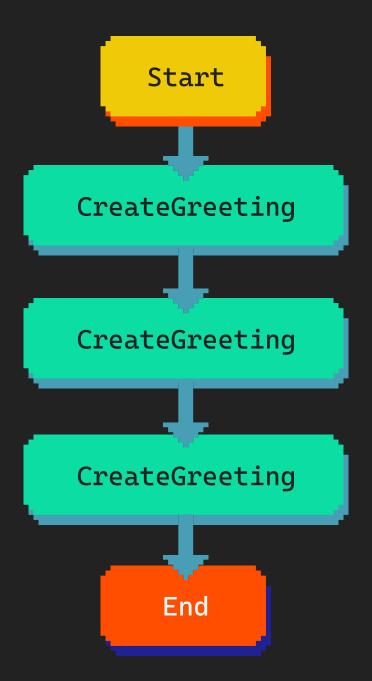


Hello World



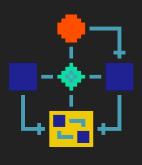






Chaining

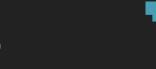




Start







CreateGreeting

CreateGreeting

CreateGreeting

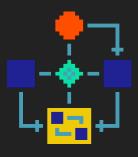




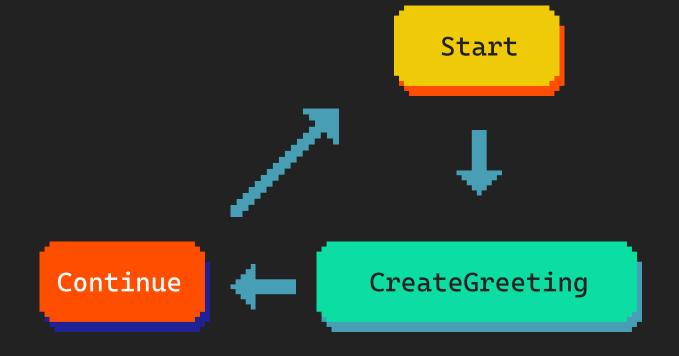


End

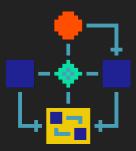




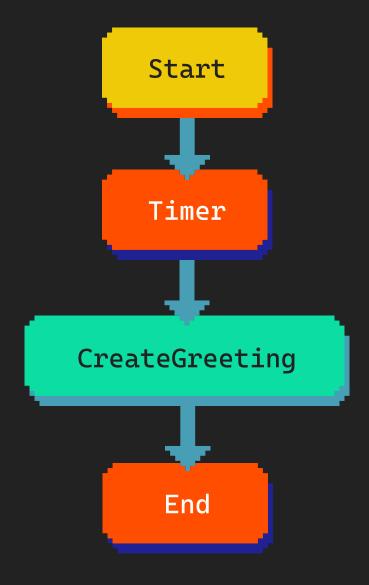
Monitor



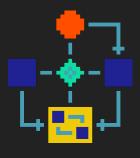




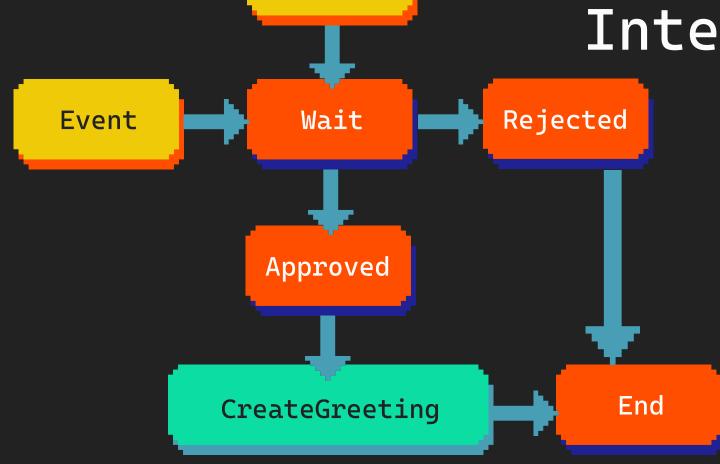
Timer



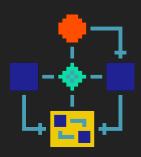








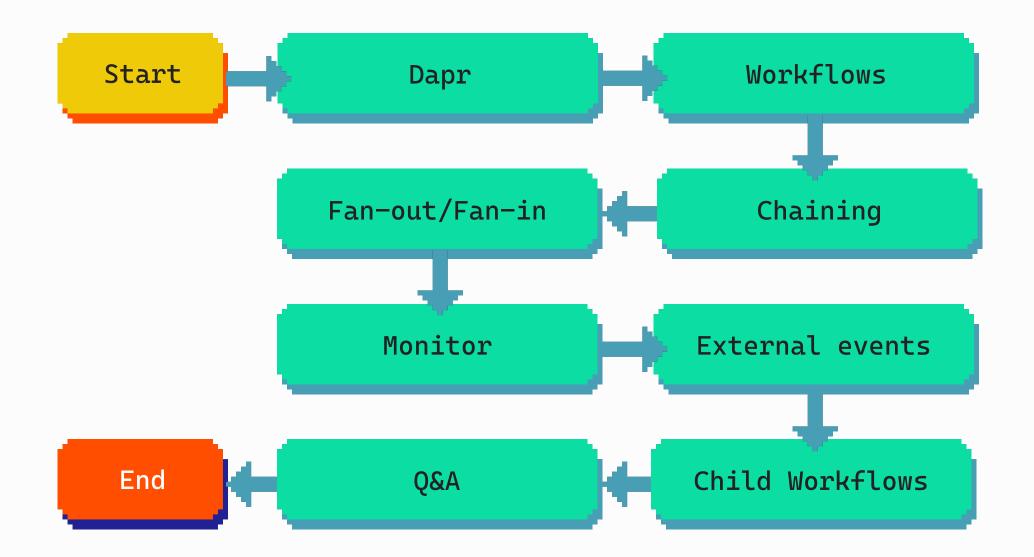




Start Child Workflow 1 Child Workflow 2 Child Workflow 3 End

Child Workflows







Claim this Holopin badge!





bit.ly/dapr-supporter



github.com/diagrid-labs/dapr-workflow-demos



Join the Dapr Discord!

bit.ly/dapr-discord

marcduiker.dev



