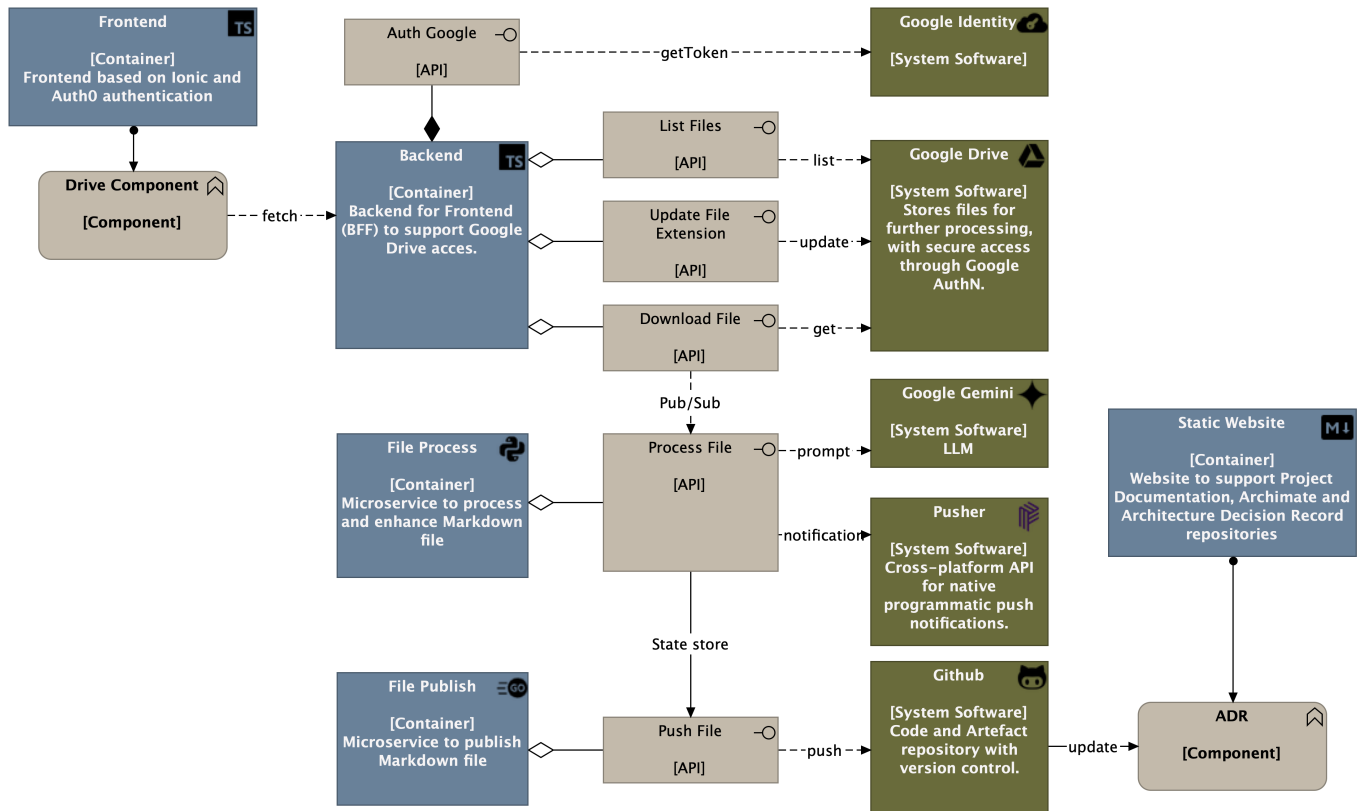


Components Diagram



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Introduction

![Components Diagram][embedView]

Backend for Frontend (BFF) architecture that facilitates secure access to Google Drive and integrates with GitHub for file management. The BFF handles user authentication via Google Identity to interact with Google Drive APIs for listing, updating, and downloading files. A File Process Microservice asynchronously processes Markdown files using a Pub/Sub mechanism and pushes the processed files to GitHub for version control. The architecture ensures separation of concerns, secure access, and scalability for file processing and artifact storage.

Backend (Application Component)

Properties

Stereotype	Github
Container	https://github.com/mickael-royer/unicorn-express-server

Relationships

From	Relationship	To	Name/Label	Description
Backend	Aggregation Relationship	List Files (Application Interface)		
Backend	Aggregation Relationship	Update File Extension (Application Interface)		
Backend	Aggregation Relationship	Download File (Application Interface)		
Backend	Composition Relationship	Auth Google (Application Interface)		

Backend for Frontend (BFF) to support Google Drive acces.

List Files (Application Interface)

Properties

Stereotype	Protocole
API	REST

Relationships

From	Relationship	To	Name/Label	Description
List Files	Flow Relationship	Google Drive (Application Component)	list	

Update File Extension (Application Interface)

Properties

Stereotype	Protocole
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Stereotype	Protocole
API	REST

Relationships

From	Relationship	To	Name/Label	Description
Update File	Flow	Google Drive (Application Component)	update	
Extension	Relationship			

Iterate through filelds and update each file

Download File (Application Interface)

Properties

Stereotype	Protocole
API	REST

Relationships

From	Relationship	To	Name/Label	Description
Download File	Flow Relationship	Process File (Application Interface)	Pub/Sub	
Download File	Flow Relationship			
Download File	Flow Relationship	Google Drive (Application Component)	get	

File Process (Application Component)

Properties

Stereotype
Container

Relationships

From	Relationship	To	Name/Label	Description
File	Aggregation	Process File (Application Interface)		
Process	Relationship			

Microservice to process and enhance Markdown file

Process File (Application Interface)

Properties

Stereotype	Protocole
API	REST

Relationships

From	Relationship	To	Name/Label	Description
Process File	Triggering Relationship	Push File (Application Interface)	State store	https://docs.dapr.io/developing-applications/building-blocks/state-management/howto-get-save-state/
Process File	Flow Relationship	Google Gemini (Application Component)	prompt	
Process File	Flow Relationship	Pusher (Application Component)	notification	

Retrieve the message sent by the publisher Extract the data field, which contains the file information Extract the file content (base64 encoded) and other info If content is base64 encoded, decode it first

Auth Google (Application Interface)

Properties

Stereotype	Protocole
API	REST

Relationships

From	Relationship	To	Name/Label	Description
Auth Google	Flow Relationship	Google Identity (Application Component)	getToken	

Google Identity (Application Component)

Properties

Stereotype	Provider	URL
System Software	Google	https://developers.google.com/identity

Google Drive (Application Component)

Properties

Stereotype	Provider	URL
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Stereotype	Provider	URL
System Software	Google	https://drive.google.com

Stores files for further processing, with secure access through Google AuthN.

Push File (Application Interface)

Properties

Stereotype	Protocole
API	REST

Relationships

From	Relationship	To	Name/Label	Description
Push File	Flow Relationship	Github (Application Component)	push	https://learn.microsoft.com/en-us/rest/api/azure/devops/git/pushes/create?view=azure-devops-rest-7.1&tabs=HTTP

Github (Application Component)

Properties

Stereotype	URL	Registry
System Software	https://github.com/mickael-royer	https://github.com/mickael-royer?tab=packages

Relationships

From	Relationship	To	Name/Label	Description
Github	Triggering Relationship	ADR (Application Function)	update	

Code and Artefact repository with version control.

Frontend (Application Component)

Properties

Stereotype	Github
Container	https://github.com/mickael-royer/unicorn-ionic

Relationships

From	Relationship	To	Name/Label	Description
Frontend	Assignment Relationship	Drive Component (Application Function)		

Frontend based on Ionic and Auth0 authentication

Drive Component (Application Function)

Properties

Stereotype
Component

Relationships

From	Relationship	To	Name/Label	Description
Drive Component	Flow Relationship	Backend (Application Component)	fetch	

Static Website (Application Component)

Properties

Stereotype	Github
Container	https://github.com/mickael-royer/unicorn-hugo-website

Relationships

From	Relationship	To	Name/Label	Description
Static Website	Assignment Relationship	ADR (Application Function)		

Website to support Project Documentation, Archimate and Architecture Decision Record repositories

ADR (Application Function)

Properties

Stereotype
Component

File Publish (Application Component)

Properties

Stereotype
Container

Relationships

From	Relationship	To	Name/Label	Description
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From	Relationship	To	Name/Label	Description
File	Aggregation	Push File (Application Interface)		
Publish	Relationship			

Microservice to publish Markdown file

Google Gemini (Application Component)

Properties

Stereotype	URL
System Software	https://aistudio.google.com/

LLM

Pusher (Application Component)

Properties

Stereotype	URL
System Software	https://dashboard.pusher.com/apps/1920401

Cross-platform API for native programmatic push notifications.