

# YugiStore

A WEB SHOP FOR TRADING CARD GAMES

yugistore.web.app

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# Agenda

- Creation of a Web Shop
- Website Overview
- Cloud and Architecture
- Technologies
- Backend
- Frontend
- NoSQL
- Storage
- Authentication
- Live Demo
- Sources
- Conclusion

# Creation of a Web Card Shop

- Create and Register cards
- Same product with different prices
- Image uploads and card database
- Shopping Cart
- Set of different technologies



# The Website

YugiStore

Search Card...

Search

Register Card

Announce Card

Toni Lommez ▾



Snake-Eye Ash

Edition: AGOV-EN007

State: NM

9.32 R\$

Add to cart



Snake-Eye Oak

Edition: AGOV-EN008

State: SP

2.25 R\$

Add to cart



Divine Temple of the Snake-Eye

Edition: AGOV-EN056

State: NM

5.99 R\$

Add to cart



Startling Stare of the Snake-Eyes

Edition: AGOV-EN075

State: MP

0.10 R\$

Add to cart



Startling Stare of the Snake-Eyes

Edition: AGOV-EN075

State: NM

0.25 R\$

Add to cart



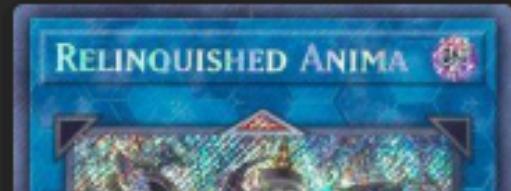
Snake-Eyes Vengeance Dragon

Edition: ALIN-EN040

State: NM

9.45 R\$

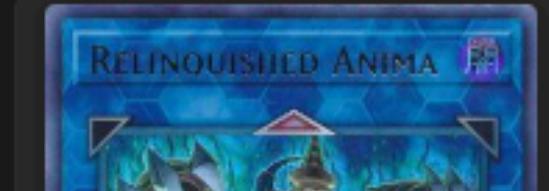
Add to cart



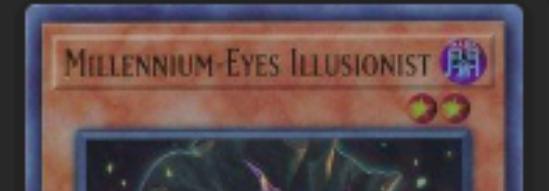
Relinquished Anima



Relinquished Anima



Relinquished Anima



Millennium-Eyes Illusionist



Snake-Eyes Diabellstar



Relinquished Anima



# Cloud and Architecture



Google Cloud



Firebase

User → Frontend → Backend → Storage

User → Cloud

Backend → Cloud

# Technologies

Backend



Cloud Run

Frontend



Firebase  
Hosting

Authentication



Firebase  
Authentication

NoSQL



Cloud  
Firestore

Images



Cloud  
Storage

✓ **yugistore** Region: us-central1 URL: <https://yugistore-650237781960.us-central1.run.app> Scaling: Auto (Min: 0)

Metrics SLOs **Logs** Revisions Source Triggers Networking Security YAML

Severity	Timestamp	Summary
> *	2025-05-19 03:06:26.801 BRT	2025/05/19 06:06:26 Connected to Firestore
> *	2025-05-19 03:06:26.801 BRT	2025/05/19 06:06:26 Connected to Cloud Storage
> *	2025-05-19 03:06:26.801 BRT	2025/05/19 06:06:26 listening on port 8080
> i	2025-05-19 03:06:26.802 BRT	Default STARTUP TCP probe succeeded after 1 attempt for container "yugistore-1" on port 8080.
> i	2025-05-19 03:06:26.889 BRT	Cloud Run ReplaceService yugistore-00005-xd7 {@type: type.googleapis.com/google.cloud.audit.Audit...
> i	2025-05-19 03:06:28.209 BRT	Cloud Run ReplaceService yugistore {@type: type.googleapis.com/google.cloud.audit.AuditLog, metho...
> i	2025-05-19 03:11:03.401 BRT	GET 200 3.05 KB 69 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/card
> i	2025-05-19 03:11:03.691 BRT	GET 200 256 B 51 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:03.913 BRT	GET 200 256 B 35 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:04.113 BRT	GET 200 256 B 40 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:04.305 BRT	GET 200 310 B 37 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:04.504 BRT	GET 200 256 B 31 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:04.697 BRT	GET 200 254 B 26 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:04.877 BRT	GET 200 309 B 40 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:05.082 BRT	GET 200 257 B 44 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:05.297 BRT	GET 200 257 B 25 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:05.504 BRT	GET 200 254 B 33 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:05.697 BRT	GET 200 254 B 34 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:05.892 BRT	GET 200 256 B 35 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...
> i	2025-05-19 03:11:06.090 BRT	GET 200 257 B 45 ms Chrome 133 https://yugistore-650237781960.us-central1.run.app/product?edition...

# Backend

- Golang
- API
- Cold Start
- Auto Scaling
- Container

# Backend

- Get/Post Cards
- Database management (NoSql and Storage)
- Turn images into links

```
type Card struct {
    Name      string `json:"name" firestore:"name"`
    Edition   string `json:"edition" firestore:"edition"`
    ImageURL string `json:"image_url" firestore:"image_url"`
}

func CreateCard(ctx context.Context, card Card) error {
    _, err := FirestoreClient.Collection("cards").Doc(card.Edition).Set(ctx, card)
    if err != nil {
        log.Printf("Failed to save card with ID '%s': %v", card.Edition, err)
        return err
    }

    return nil
}
```

```
func setupRoutes() {
    http.HandleFunc("/ping", withCORS(ping))
    http.HandleFunc("/card", withCORS(cardsHandler))
    http.HandleFunc("/editions", withCORS(editionsHandler))
    http.HandleFunc("/product", withCORS(productsHandler))
}
```

1 app

+ Adicionar app

# Frontend

- HTML/CSS
- Javascript - Vanilla
- Firebase Hosting
- Https

## Criação

### Hosting

Downloads (total de sete dias)

**118KB**

97.7K

48.8K

0

mai. 12

[Histórico de implantação](#)**Implantado**

19 de mai. de 2025 03:03

Implantação por

 tonilommez@gmail.com

— Esta semana

-- Semana passada

### Storage

Armazenamento (atual)

**1.32MB**

1.91M

977K

0

mai. 12

mai. 13

mai. 14

mai. 15

mai. 16

mai. 17

mai. 18

— Esta semana -- Semana passada

### Firebase

Leituras (atual)

**3,5 mil**

4 mil

2 mil

0

mai. 12

mai. 18

Gravações (atual)

**76**

100

50

0

mai. 12

mai. 18

— Esta semana -- Semana passada

# Frontend

- Shopping Cart
- <https://yugistore.web.app>

Announce Card

Edition Code  
Snake-Eye Ash - AGOV-EN007

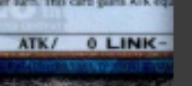
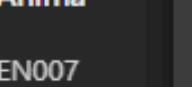
State  
NM (Near Mint)

Price (R\$)  
4.50

Publish

State: NM    State: MP    State:

Shopping Cart

Add to cart			
	Relinquished Anima	2.25 R\$	<a href="#">X</a>
	Divine Temple of the Snake-Eye	x1 R\$	<a href="#">X</a>
	Startling Stare of the Snake-Eyes	x1 R\$	<a href="#">X</a>
	Relinquished Anima	x2 R\$	<a href="#">X</a>
	Relinquished Anima	x1 R\$	<a href="#">X</a>
	Snake-Eyes Flamberge Dragon	x1 R\$	<a href="#">X</a>
	Original Sinful Spoils - Snake-Eye	x1 R\$	<a href="#">X</a>
Total: 159.04 R\$			<a href="#">Checkout</a>

# Cloud Firestore

The screenshot shows the Cloud Firestore interface with a dark theme. The navigation bar at the top includes a home icon, a 'cards' icon, and the document ID 'AGOV-EN007'. On the right, there's a 'Mais no Google Cloud' button and a dropdown menu.

The left sidebar lists collections: 'cards' (selected, showing its documents) and 'products'. The 'cards' collection has a 'default' rule and a '+ Iniciar coleção' button. Its documents are listed as follows:

- AGOV-EN007 (selected, shown in detail view)
- AGOV-EN008
- AGOV-EN056
- AGOV-EN075
- ALIN-EN040
- BROL-EN087
- DUOV-EN052
- LED2-EN001
- LEDE-EN011
- MP24-EN007
- MP24-EN104
- MP24-EN111
- MP24-EN112

The right panel shows the detailed view for the 'AGOV-EN007' document. It has fields: 'edition' (value: "AGOV-EN007"), 'image\_url' (value: "https://storage.googleapis.com/yugistore-images/Snake-Eye Ash-AGOV-EN007"), and 'name' (value: "Snake-Eye Ash"). There are also '+ Iniciar coleção' and '+ Adicionar campo' buttons.

# Cloud Firestore

The screenshot shows the Google Cloud Platform Firestore interface. At the top, there's a navigation bar with a home icon, the path 'products > 88sUrSFaVCo9...', and a 'Mais no Google Cloud' button. On the left, a sidebar shows a 'cards' section and a 'products' collection with a '+' button to start a new collection. The main area displays the 'products' collection with several document IDs: 1QRT3W11resmhLdneH9d, 1cJw7RLn8z2DXWta28xa, 4fwL1R3lboZtX3zHBhSc, 5CET1wfXFSwBXqXULfE6, 88sUrSFaVCo9NTezG22C (selected), 9HehU5M03ipIc1k7ct1g, BWXSkrysdErRLE3SooNE, CI6X1p0iPUua7NZbZn7B, HJpvR2QvrpKGZBFkTGPe, IW2CqT2jh8lyNLPTgb2Q, N7SurpWMct7yixMMWjIA, NnJsVr3Gs6DiYVfcjh0x, and Sio99T2ve9i0JWPCalIU. The selected document (88sUrSFaVCo9NTezG22C) has fields: edition: "AGOV-EN008", price: "2.25", and state: "SP".

cards	products	88sUrSFaVCo9NTezG22C
+ Iniciar coleção	+ Adicionar documento	+ Iniciar coleção
products	1QRT3W11resmhLdneH9d	edition: "AGOV-EN008"
	1cJw7RLn8z2DXWta28xa	price: "2.25"
	4fwL1R3lboZtX3zHBhSc	state: "SP"
	5CET1wfXFSwBXqXULfE6	
	88sUrSFaVCo9NTezG22C	
	9HehU5M03ipIc1k7ct1g	
	BWXSkrysdErRLE3SooNE	
	CI6X1p0iPUua7NZbZn7B	
	HJpvR2QvrpKGZBFkTGPe	
	IW2CqT2jh8lyNLPTgb2Q	
	N7SurpWMct7yixMMWjIA	
	NnJsVr3Gs6DiYVfcjh0x	
	Sio99T2ve9i0JWPCalIU	

## Cloud Storage

Location	Storage class	Public access	Protection
us-central1 (Iowa)	Standard	⚠️ Public to internet	None

Objects Configuration Permissions Protection Lifecycle Observability **New** Inventory Reports Operations

Folder browser 

 [yugistore-images](#) 

Buckets > [yugistore-images](#) 

[Create folder](#) [Upload](#) [Transfer data](#) [Other services](#)

[Filter by name prefix only](#)  [Filter objects and folders](#) [Show](#) [Live objects only](#) 

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last	
<input type="checkbox"/>	 <a href="#">Divine Temple of the Snake-Eye-A...</a>	267.1 KB	image/jpeg	May 19, 2025, 2:40:10 AM	Standard	May	 
<input type="checkbox"/>	 <a href="#">Dramatic Snake-Eye Chase-PHNI-E...</a>	323.3 KB	image/jpeg	May 19, 2025, 2:36:48 AM	Standard	May	 
<input type="checkbox"/>	 <a href="#">Millennium-Eyes Illusionist-LED2-E...</a>	273.1 KB	image/jpeg	May 19, 2025, 2:44:58 AM	Standard	May	 
<input type="checkbox"/>	 <a href="#">Original Sinful Spoils - Snake-Eye...</a>	338.5 KB	image/jpeg	May 19, 2025, 2:33:00 AM	Standard	May	 
<input type="checkbox"/>	 <a href="#">Relinquished Anima-BROL-EN087</a>	324.9 KB	image/jpeg	May 19, 2025, 2:51:42 AM	Standard	May	 
<input type="checkbox"/>	 <a href="#">Relinquished Anima-DUOV-EN052</a>	290.8 KB	image/jpeg	May 19, 2025, 2:42:38 AM	Standard	May	 
<input type="checkbox"/>	 <a href="#">Relinquished Anima-MP24-EN007</a>	359.8 KB	image/jpeg	May 19, 2025, 2:42:59 AM	Standard	May	 
<input type="checkbox"/>	 <a href="#">Relinquished-SRL-EN029</a>	178.1 KB	image/jpeg	May 19, 2025, 2:44:07 AM	Standard	May	 
<input type="checkbox"/>	 <a href="#">Sinful Spoils of Subversion - Snake...</a>	312.3 KB	image/jpeg	May 19, 2025, 2:32:27 AM	Standard	May	 

# Cloud Storage

# Cloud Storage

Register Card

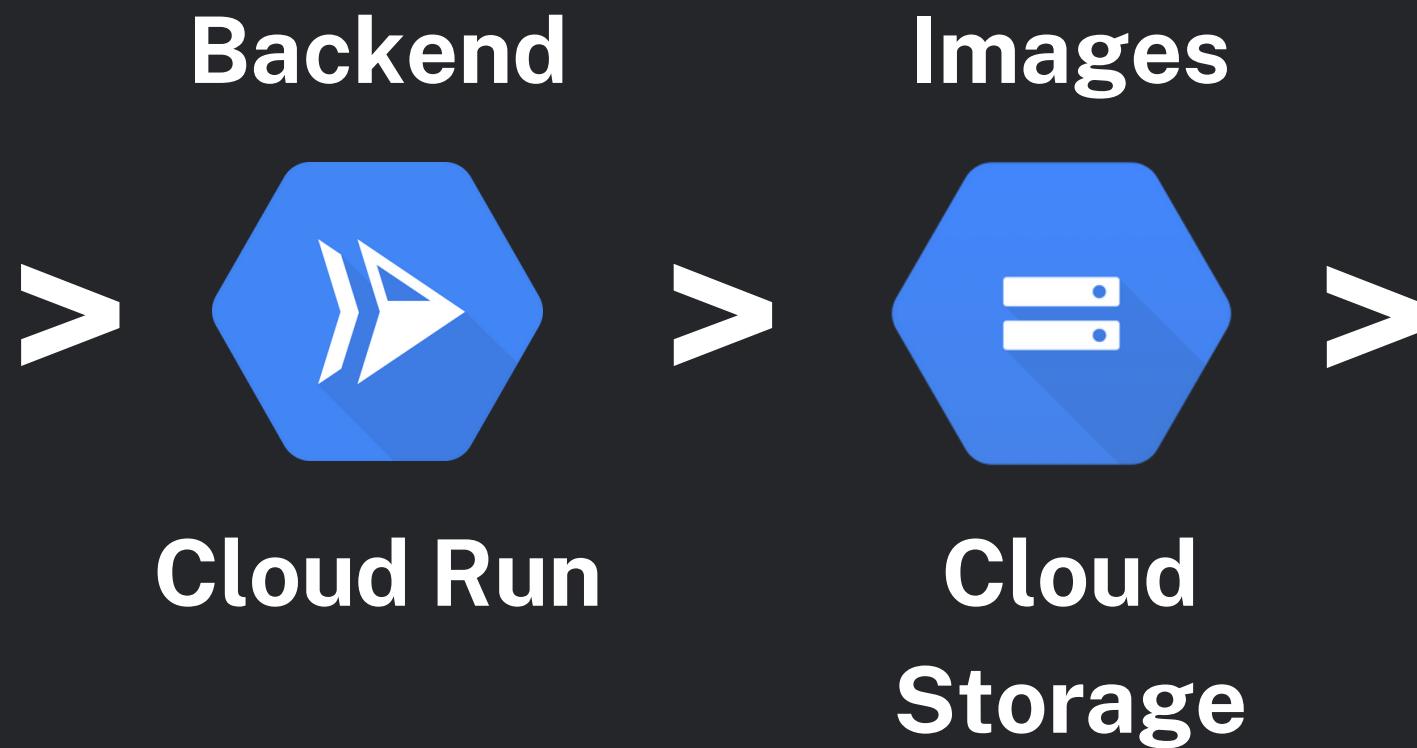
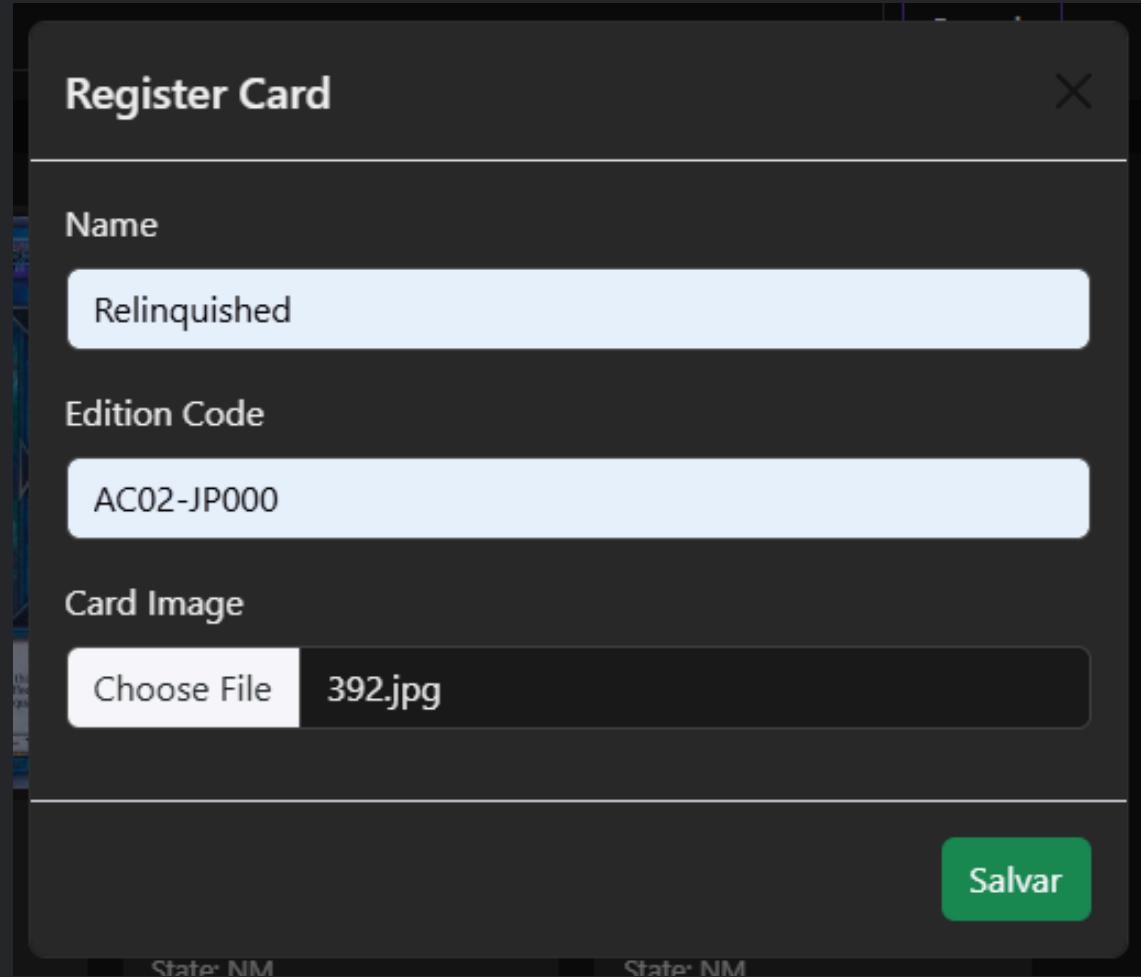
Name  
Relinquished

Edition Code  
AC02-JP000

Card Image  
Choose File 392.jpg

Salvar

State: NM State: NM



<https://storage.googleapis.com/yugistore-images/Relinquished-SRL-EN029>

# Authentication

YugiStore ▾

## Authentication

[Usuários](#)   [Método de login](#)   [Modelos](#)   [Uso](#)   [Configurações](#)

 Extensions

 Os seguintes recursos de autenticação vão parar de funcionar quando o Firebase Dynamic Links for desativado em 25 de agosto de 2025: autenticação por link de e-mail em apps para dispositivos móveis e suporte ao OAuth do Cordova em apps da Web.



Pesquise por endereço de e-mail, número de telefone ou UID do usuário

Adicionar usuário



Identificador	Provedores	Data de criação	Último login	UID do usuário
tonilommez@gmail.com		16 de mai. de 20...	16 de mai. de 20...	fMYYPcbOApTZHOkIEOFius8...

Linhos por página: 50 ▾ 1 – 1 of 1 < >



Snake-Eye Ash

Edition: AGOV-EN007

State: NM

**9.32 R\$**[Add to cart](#)

Snake-Eye Oak

Edition: AGOV-EN008

State: SP

**2.25 R\$**[Add to cart](#)

# Choose an account

to continue to [yugistore.firebaseioapp.com](https://yugistore.firebaseioapp.com)

**Toni Lommez**

tonilommez@gmail.com

Signed out



Startling Stare of the Snake-Eyes

Edition: AGOV-EN075

State: NM

**0.25 R\$**[Add to cart](#)

Snake-Eyes Vengeance Dragon

Edition: ALIN-EN040

State: NM

**9.45 R\$**[Add to cart](#)

malcribeiro@sga.pucminas.br

Signed out

**Use another account**

English (United States)

Help

Privacy

Terms





Snake-Eye Ash

Edition: AGOV-EN007

State: NM

9.32 R\$

[Add to cart](#)

Snake-Eye Oak

Edition: AGOV-EN008

State: SP

2.25 R\$

[Add to cart](#)

Divine Temple of the Snake-Eye

Edition: AGOV-EN056

State: NM

5.99 R\$

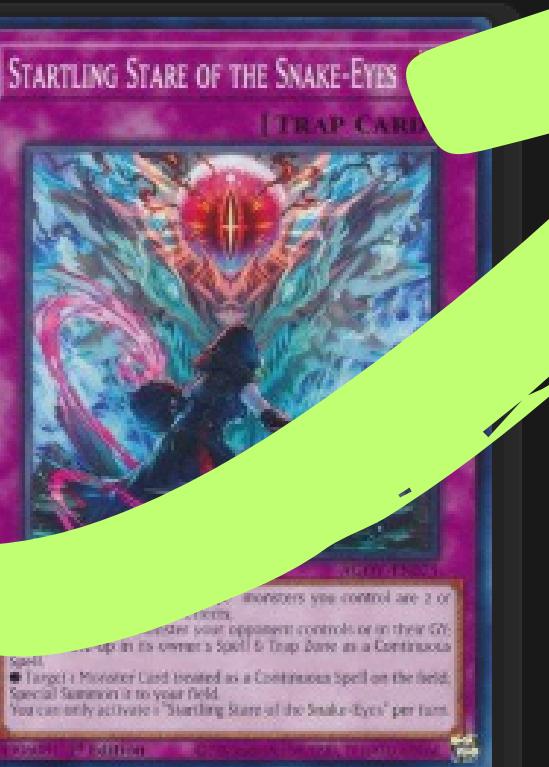
[Add to cart](#)

Startling Stare of the Snake-Eyes

Edition: AGOV-EN075

State: MP

0.10 R\$

[Add to cart](#)

Startling Stare of the Snake-Eyes

Edition: AGOV-EN075

State: NM

0.25 R\$

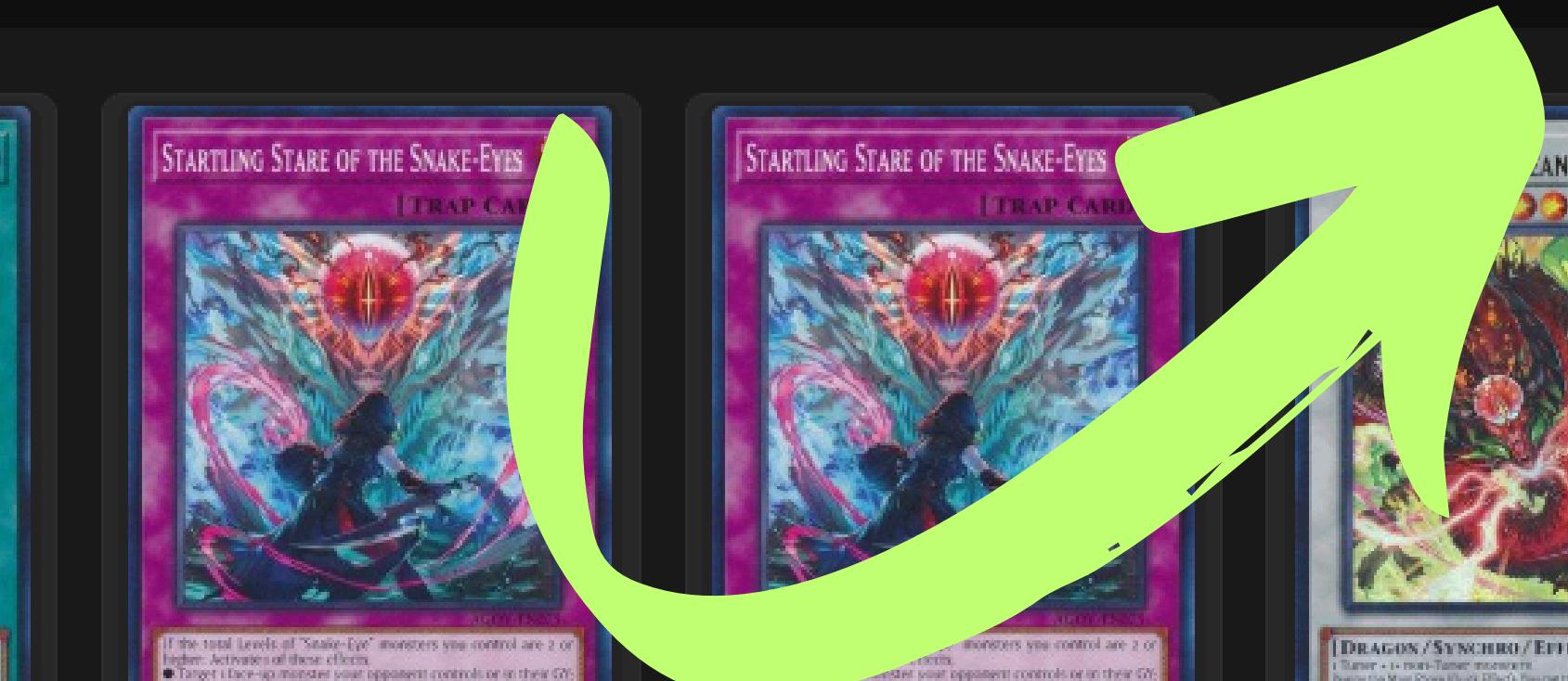
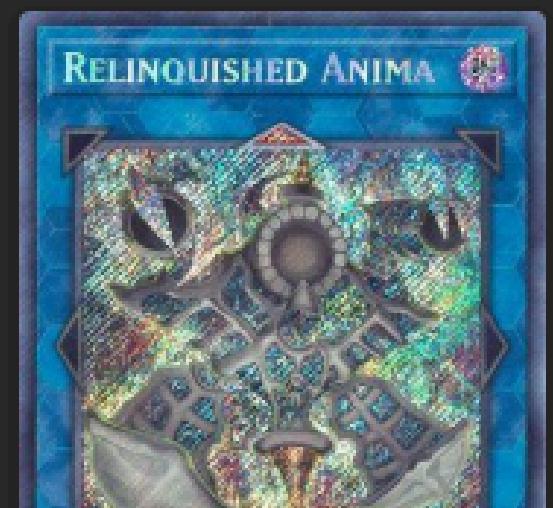
[Add to cart](#)

Snake-Eyes Vengeance Dragon

Edition: ALIN-EN040

State: NM

9.45 R\$

[Add to cart](#)

# Live Demo

<https://yugistore.web.app>

# Sources

**Cloud Run Go Container** - <https://cloud.google.com/run/docs/quickstarts/build-and-deploy/go>

**Firebase Hosting** - <https://firebase.google.com/docs/hosting>

**Firebase NoSQL Database** - <https://cloud.google.com/go/docs/reference/cloud.google.com/go/firestore/latest>

**Cloud Storage** - <https://cloud.google.com/storage/docs/reference/libraries#client-libraries-install-go>

**Firebase Authentication** - <https://firebase.google.com/docs/auth/web/google-signin>

**Golang Documentation** - <https://go.dev/doc/tutorial/getting-started>

# Conclusion

- Google Cloud = Good documentation = Easy to use
- A lot of services = A lot of cold starts
- Cheap and fair
- Good integration between services and language
- Fun to work with

Thank you!

Questions?