



# 4. Semester Afsluttende-Projekt

## Sapphire Avenue Toolkit

Oliver Boots

# Agenda

## Sapphire Avenue

- Præsentation af projekt
- Hvordan fungere markedet?
- Teknisk Overview
  - Item Search
  - Crafting Calculator
  - Character Search
- Live demo
- Konklusion

# Præsentation af projekt

# Præsentation af projekt

- Et sæt af værktøjer som supplement til spillere af Final Fantasy XIV
- Fokus på den virtuelle markedsplads og hjælpe med at anskaffe sig valuta i spillet
- Bygget ud fra observeret ønsker fra fælleskabet
- Projektet tager i brug metoder lært under uddannelsen



# Hvordan fungere markedet?

- “Marketboard” er hvor spillere kan intergere med markedet
  - Spillere kan sælge og købe herfra. Hver server har deres eget marked
  - Spillere kan hoppe over til de forskellige servere, hvor de kan købe, men ikke sælge.



**Item Search**

SEARCH Partial Match

fire shard

CATEGORY SEARCH

Main Arm/Off Arm

Armor

Items

Housing

lv. 66 + - lv. 1

lv. 66 + - lv. 1

Warrior

Items

Search

Partial Match

Fire Shard

Search Results

8,493,658

| HQ  | Materia | Price | Qty. | Total    | Retainer            |
|-----|---------|-------|------|----------|---------------------|
| 64p |         | 9,000 | ▶    | 604,800p | Zvezda              |
| 67p |         | 500   | ▶    | 35,175p  | Thordar-stormcaller |
| 67p |         | 500   | ▶    | 35,175p  | Thordar-stormcaller |
| 68p |         | 1,000 | ▶    | 71,400p  | Aeonmall            |
| 69p |         | 1,400 | ▶    | 101,430p | Adelena-thorne      |
| 69p |         | 500   | ▶    | 36,225p  | Maximel             |
| 69p |         | 500   | ▶    | 36,225p  | Maximel             |
| 69p |         | 500   | ▶    | 36,225p  | Maximel             |
| 69p |         | 500   | ▶    | 36,225p  | Maximel             |
| 69p |         | 500   | ▶    | 36,225p  | Maximel             |

Display price with fee included. 48 hits

NORTH AMERICAN DATA CENTERS

Aether  
Crystal  
Dynamis  
Primal

★ Chaos

CERBERUS  
LOUISOIX  
MOOGLE  
OMEGA  
PHANTOM  
RAGNAROK  
SAGITTARIUS  
SPRIGGAN

EUROPEAN DATA CENTERS

Light

ALPHA  
LICH  
ODIN  
PHOENIX  
RAIDEN  
SHIVA  
TWINTANIA  
ZODIARK

JAPANESE DATA CENTERS

Shadow

INNOCENCE  
PIXIE  
TITANIA

Elemental  
Gaia  
Mana  
Meteor

Proceed

# Teknisk Overview

# Teknisk Overview

## Item Search

Wind Shard

Spriggan

```
def get_item_id_from_name(item_name):
```

```
    json_item=requests.get(f"https://universalis.app/api/v2/{server}/{item_id}")
```

```
{"itemID":4,"worldID":85,"lastUploadTime":1717489171252,"listings":  
[{"lastReviewTime":1717434442,"pricePerUnit":60,"quantity":2000,"stainID":0,"creatorName":"","creatorID":null,"hq":false,"isCrafted":false,"listingID":"6933c26c1948e76bb4ec5a1af782ba573693e8654ef9a5f1341b77056b06963","materia":  
[],"onMannequin":false,"retainerCity":3,"retainerID":"9f99ba37e7c9b7b907975e18b2be0491274f16c5c6d543de4f27ece7c8f36ed0","retainerName":"Aeonmall","sellerID":"cdb2208bf9006d49844a7bd89b49e498c6fd371b4e7579d6bd6a3da5bef85b47","total":120000,"tax":6000},
```

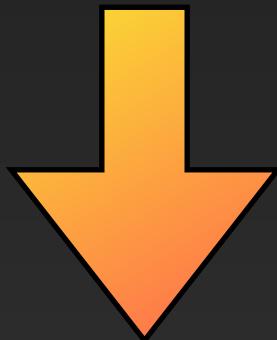
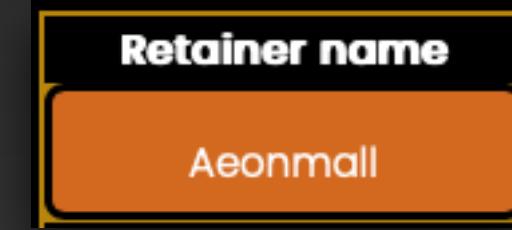
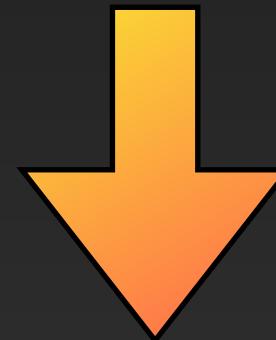
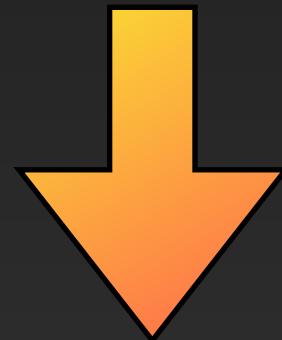
"lastUploadTime":1717489171252

"pricePerUnit":60,

"quantity":2000

"retainerName": "Aeonmall"

"total":120000

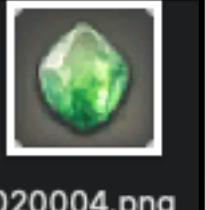
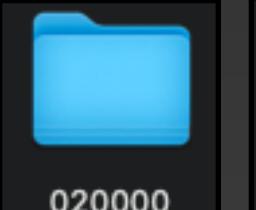


```
data=requests.get(f"https://xivapi.com/item/{item_id}")
```

"IconID": 20004,

```
def find_picture_path(icon_id):
```

```
path = 'static/icons/' + folder_id + '/' + icon_id + '.png'
```



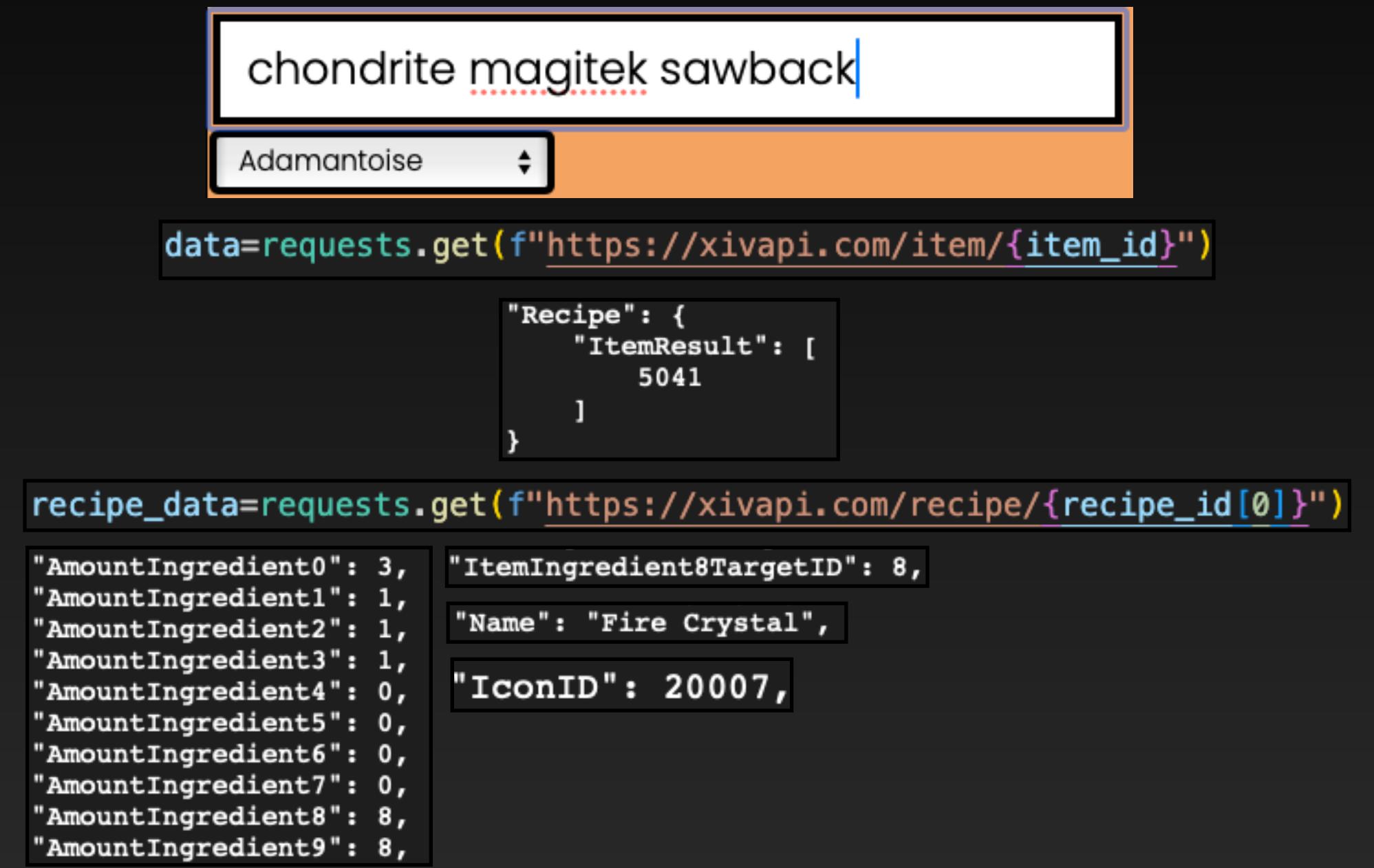
# Teknisk Overview

## Item Search

|  |   |                                 |                                 |                                 |                                 |                                  |                                  |                                  |  |
|--|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|--|
|  Wind Shard |   |                                 |                                 |                                 |                                 |                                  |                                  |                                  |  |
| Server: Spriggan   |   |                                 |                                 |                                 |                                 |                                  |                                  |                                  |  |
| Last Update: 2024-06-04 08:19:31   |   |                                 |                                 |                                 |                                 |                                  |                                  |                                  |  |
| <b>Retainer name</b><br>Aeonmall   | <b>Retainer name</b><br>Tournesol   | <b>Retainer name</b><br>Ropert  | <b>Retainer name</b><br>Ropert  | <b>Retainer name</b><br>Ropert  | <b>Retainer name</b><br>Chaneko | <b>Retainer name</b><br>Chaneko  | <b>Retainer name</b><br>Caenya   | <b>Retainer name</b><br>Chaneko  |  |
| <b>Listing quantity</b><br>2000  | <b>Listing quantity</b><br>70   | <b>Listing quantity</b><br>1001 | <b>Listing quantity</b><br>1001 | <b>Listing quantity</b><br>1001 | <b>Listing quantity</b><br>1000 | <b>Listing quantity</b><br>2000  | <b>Listing quantity</b><br>2000  | <b>Listing quantity</b><br>2000  |  |
| <b>Price per unit</b><br><span style="background-color: #90EE90; padding: 2px;">60</span>    | <b>Price per unit</b><br><span style="background-color: #90EE90; padding: 2px;">60</span> | <b>Price per unit</b><br>71     | <b>Price per unit</b><br>71     | <b>Price per unit</b><br>71     | <b>Price per unit</b><br>79     | <b>Price per unit</b><br>79      | <b>Price per unit</b><br>79      | <b>Price per unit</b><br>79      |  |
| <b>Listing total</b><br>120000   | <b>Listing total</b><br>4200  | <b>Listing total</b><br>71071   | <b>Listing total</b><br>71071   | <b>Listing total</b><br>71071   | <b>Listing total</b><br>79000   | <b>Listing total</b><br>158000   | <b>Listing total</b><br>158000   | <b>Listing total</b><br>158000   |  |
| <b>Retainer name</b><br>Caenya   | <b>Retainer name</b><br>Chaneko   | <b>Retainer name</b><br>Chaneko | <b>Retainer name</b><br>Chaneko | <b>Retainer name</b><br>Chinoka | <b>Retainer name</b><br>Chaneko | <b>Retainer name</b><br>Takahara | <b>Retainer name</b><br>Takahara | <b>Retainer name</b><br>Takahara |  |
| <b>Listing quantity</b><br>2000  | <b>Listing quantity</b><br>2000   | <b>Listing quantity</b><br>2000 | <b>Listing quantity</b><br>2000 | <b>Listing quantity</b><br>4000 | <b>Listing quantity</b><br>2000 | <b>Listing quantity</b><br>1000  | <b>Listing quantity</b><br>1000  | <b>Listing quantity</b><br>1000  |  |
| <b>Price per unit</b><br>79  | <b>Price per unit</b><br>79   | <b>Price per unit</b><br>79     | <b>Price per unit</b><br>79     | <b>Price per unit</b><br>79     | <b>Price per unit</b><br>79     | <b>Price per unit</b><br>80      | <b>Price per unit</b><br>80      | <b>Price per unit</b><br>80      |  |

# Teknisk Overview

## Crafting Calculator



The image shows a screenshot of a crafting calculator application. At the top, there is a search bar containing the text "chondrite magitek sawback". Below the search bar is a dropdown menu with the option "Adamantoise" selected. The main area displays two JSON API responses. The first response is for an item, showing a "Recipe" object with a single "ItemResult" entry containing the ID 5041. The second response is for a recipe, showing a "AmountIngredient" array with nine entries, each having a "Name" field set to "Fire Crystal".

```
chondrite magitek sawback
Adamantoise

data=requests.get(f"https://xivapi.com/item/{item_id}")

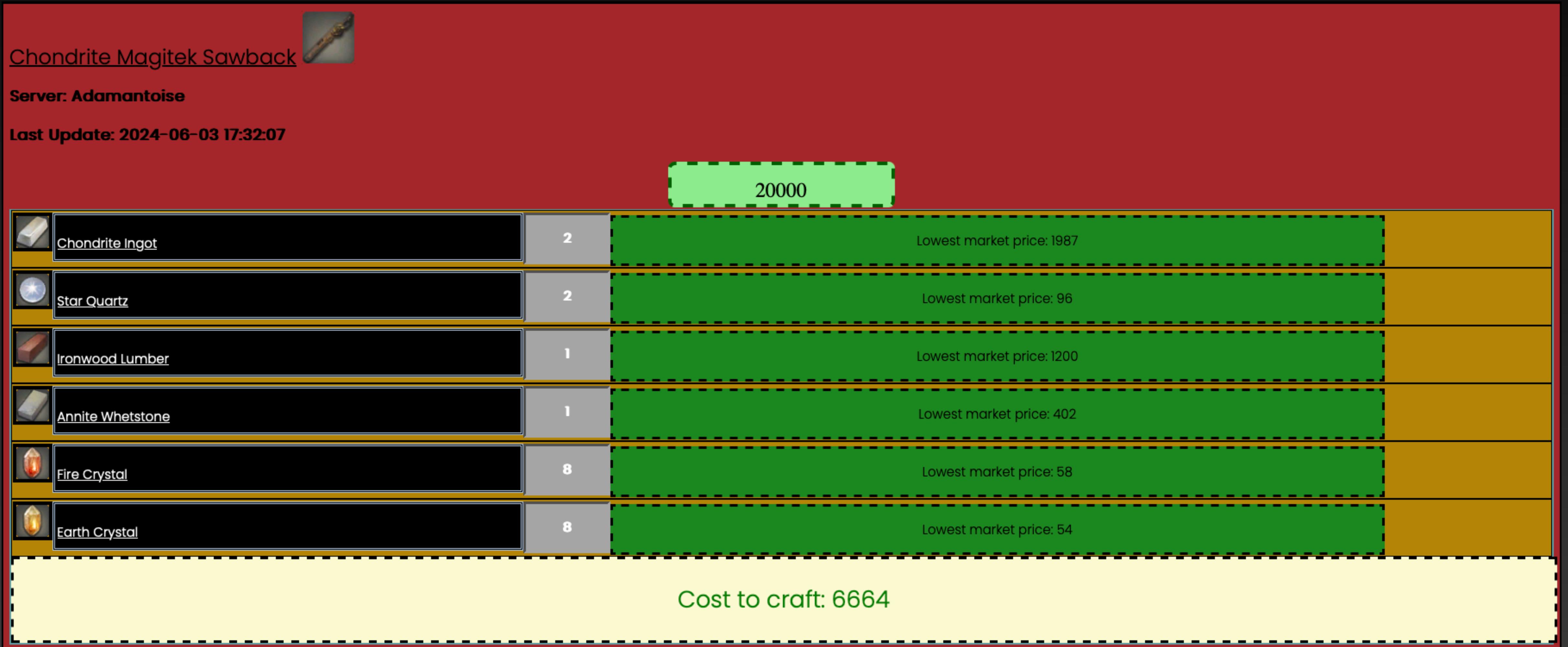
{
    "Recipe": {
        "ItemResult": [
            5041
        ]
    }
}

recipe_data=requests.get(f"https://xivapi.com/recipe/{recipe_id[0]}")

{
    "AmountIngredient0": 3,
    "AmountIngredient1": 1,
    "AmountIngredient2": 1,
    "AmountIngredient3": 1,
    "AmountIngredient4": 0,
    "AmountIngredient5": 0,
    "AmountIngredient6": 0,
    "AmountIngredient7": 0,
    "AmountIngredient8": 8,
    "AmountIngredient9": 8,
    "ItemIngredient8TargetID": 8,
    "Name": "Fire Crystal",
    "IconID": 20007,
}
```

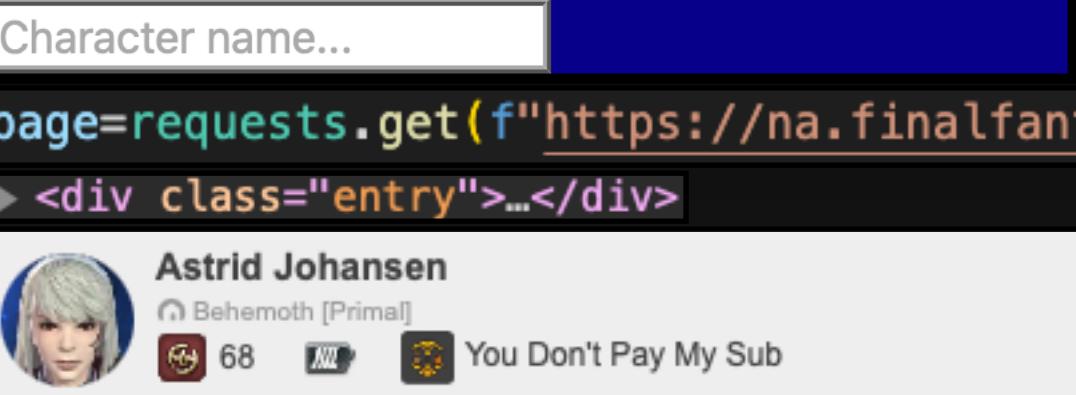
# Teknisk Overview

## Crafting Calculator



# Teknisk Overview

## Character Select



```
Character name...  
page=requests.get(f"https://na.finalfantasyxiv.com/lodestone/character/?q={name}")  
► <div class="entry">...</div>
```

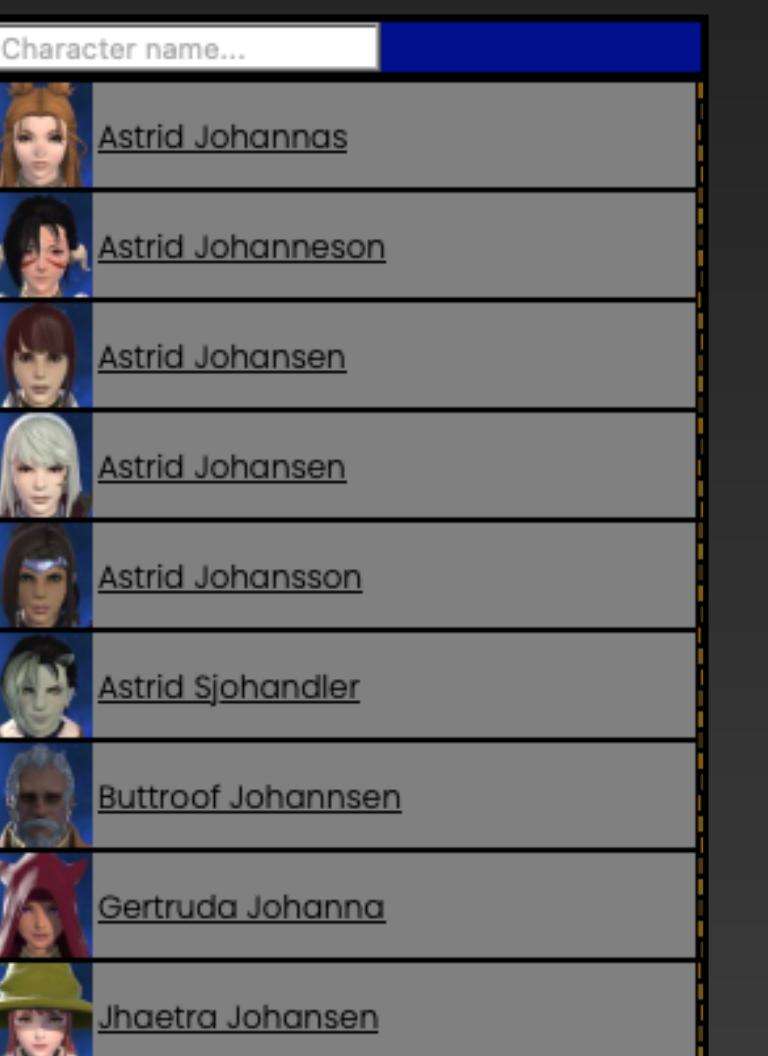
Astrid Johansen  
Behemoth [Primal]  
68 You Don't Pay My Sub

EN

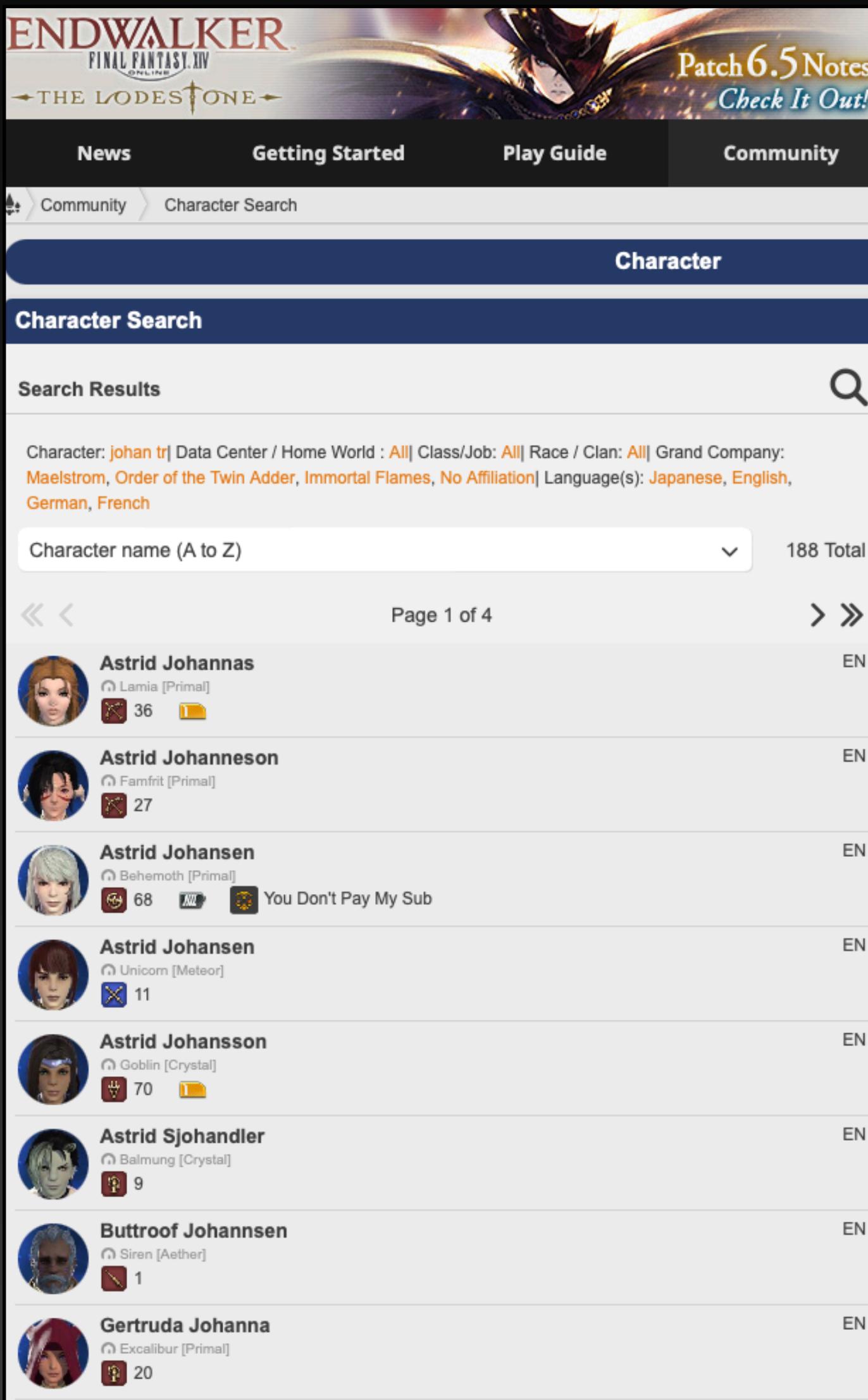
```
ikon =   
navn = <p class="entry_name">Astrid Johansen</p>  
  
href = <a href="/lodestone/character/18243618/" class="entry_link">Event</a>
```



[ikon, navn, href] →



Character name...  
Astrid Johannas  
Astrid Johanneson  
Astrid Johansen  
Astrid Johansen  
Astrid Johansson  
Astrid Sjohandler  
Buttroof Johannsen  
Gertruda Johanna  
Jhaetra Johansen



ENDWALKER FINAL FANTASY XIV ONLINE Patch 6.5 Notes Check It Out!

News Getting Started Play Guide Community

Community Character Search Character

Character Search

Search Results

Character: johan | Data Center / Home World : All | Class/Job: All | Race / Clan: All | Grand Company: Maelstrom, Order of the Twin Adder, Immortal Flames, No Affiliation | Language(s): Japanese, English, German, French

Character name (A to Z) 188 Total

Page 1 of 4

| Character Name     | Race               | Job | Level                | Subjob |
|--------------------|--------------------|-----|----------------------|--------|
| Astrid Johannas    | Lamia [Primal]     | 36  |                      |        |
| Astrid Johanneson  | Famfit [Primal]    | 27  |                      |        |
| Astrid Johansen    | Behemoth [Primal]  | 68  | You Don't Pay My Sub |        |
| Astrid Johansen    | Unicorn [Meteor]   | 11  |                      |        |
| Astrid Johansson   | Goblin [Crystal]   | 70  |                      |        |
| Astrid Sjohandler  | Balmung [Crystal]  | 9   |                      |        |
| Buttroof Johannsen | Siren [Aether]     | 1   |                      |        |
| Gertruda Johanna   | Excalibur [Primal] | 20  |                      |        |

# Teknisk Overview

## Character Select

```
page=requests.get(f"https://na.finalfantasyxiv.com/lodestone/character/{id}/")
```

```
<div class="character_detail_image">
<a href="https://img2.finalfantasyxiv.com/f/
bb786edc7f2bf91019f6d8861376dfd2_be20385e18333edb329d4574f364a1f0f0_640x873.jpg?1717492552">
```



Flame Howler  
**Astrid Johansen**  
Behemoth [Primal]

Profile Class/Job Minions Mounts

Follow

```
page=requests.get(f"https://na.finalfantasyxiv.com/lodestone/character/{id}/minion/")
```

```
page=requests.get(f"https://na.finalfantasyxiv.com/lodestone/character/{id}/mount/")
```

Minions

Total: 11

**Minions**

**Buffalo Calf**

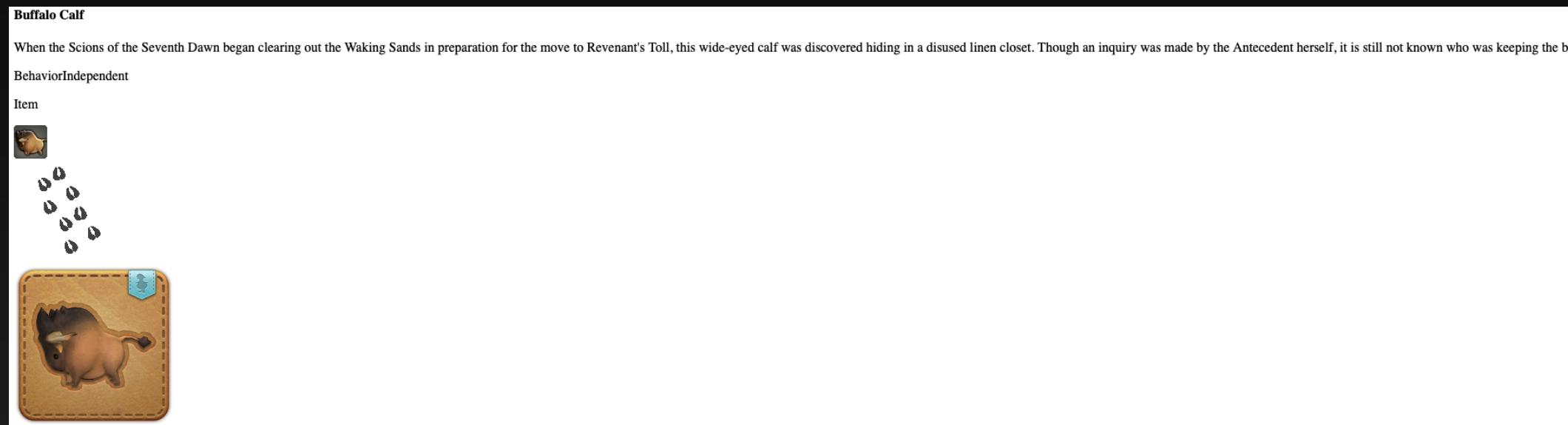
When the Scions of the Seventh Dawn began clearing out the Waking Sands in preparation for the move to Revenant's Toll, this wide-eyed calf was discovered hiding in a disused linen closet. Though an inquiry was made by the Antecedent herself, it is still not known who was keeping the beast.

Behavior: Independent  
Item:

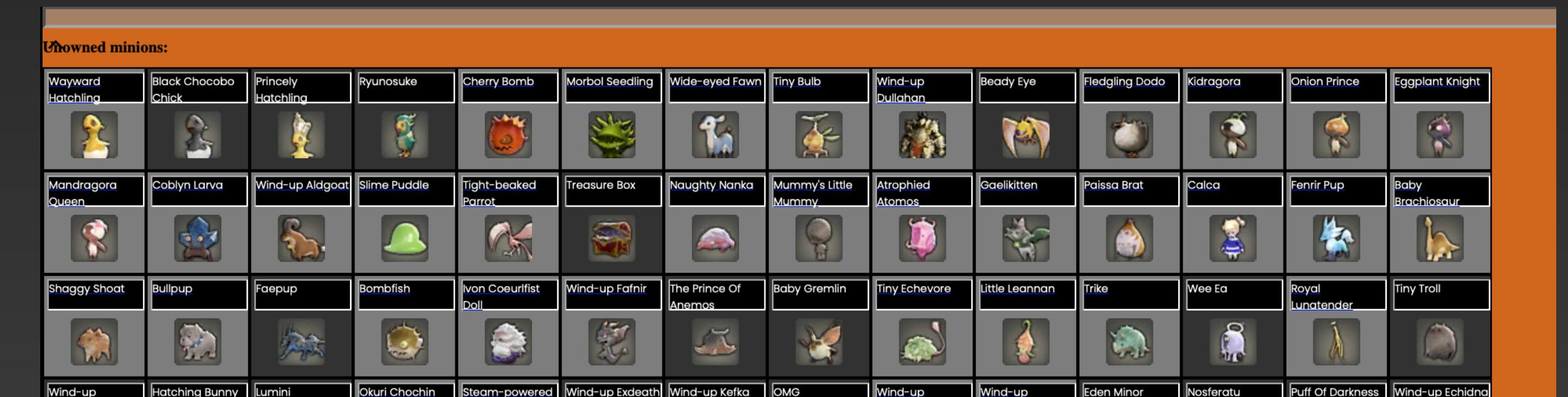
# Teknisk Overview

## Character Select

```
minion_page=requests.get(f"https://na.finalfantasyxiv.com/{minion.get('data-tooltip_href')}")
```



[owned\_minions]



[unowned\_minions]

# Live Demo

# Konklusion

- Kan aktivt bruges som et fungerende supplement til markedet
- Det er muligt at spare penge, hvis man bruger hjemmesiden taktisk
- Skal opdateres løbende som nye versioner af Final Fantasy XIV bliver udgivet
- Kan have juristiske problemstillinger
- Via donationer, on-site reklamer og/eller abonnement der giver adgang til nye features, kan der være indtægtsgenerering

# Spørgsmål