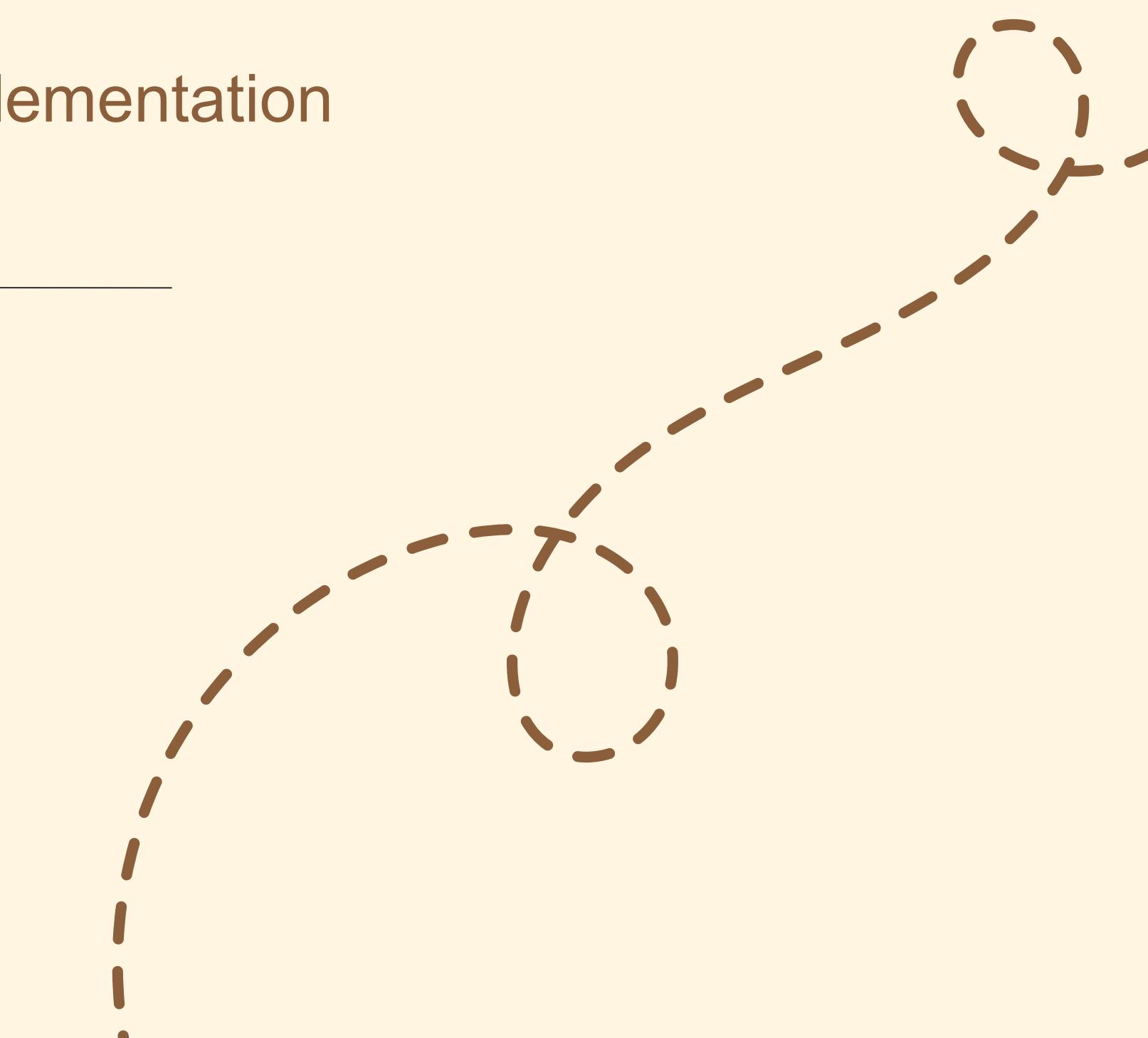


Knit To Knit: An AWS Implementation

by Marco Cassar

April, 2025



Lets Recap

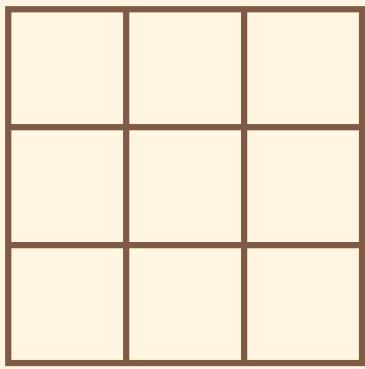
But Marco Why Knitting?



November, 2024

Key Knitting Challenges?

Knit To Knit

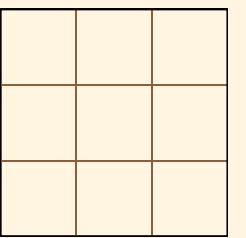
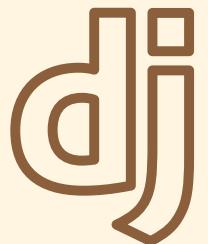


Solutions Stack

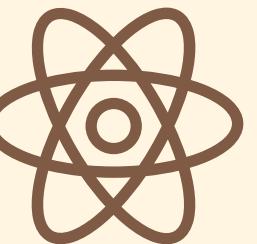
Knit To Knit



Django



React



Website



Demo Example

Knit To Knit

The screenshot displays a web application interface for knitting patterns. On the left, a vertical sidebar titled "KNITTING NAVBAR" lists navigation options: Dashboard, Patterns, Pattern Create, Designs, and Design Create. The main content area shows a form for creating a pattern named "Fall Raglan Sweater". The "Pattern Content" field contains the description: "Fall Colored Sweater with ribbing and a light taper". The "Sweater Type" dropdown is set to "Separated Sweater". Below this, a "Swatch Info" section provides specific dimensions: Width 4, Height 4, Stitches 20, Rows 28, and Needle Size 3.5. Further down, a "Torso Dimensions" section shows Width 17 and Height 24, with checkboxes for Ribbing, Taper, and Neck all checked.

Pattern Name: Fall Raglan Sweater

Pattern Content: Fall Colored Sweater with ribbing and a light taper

Sweater Type: Separated Sweater

Swatch Info

Width: 4

Height: 4

Stitches: 20

Rows: 28

Needle Size: 3.5

Torso Dimensions

Width: 17

Height: 24

Ribbing:

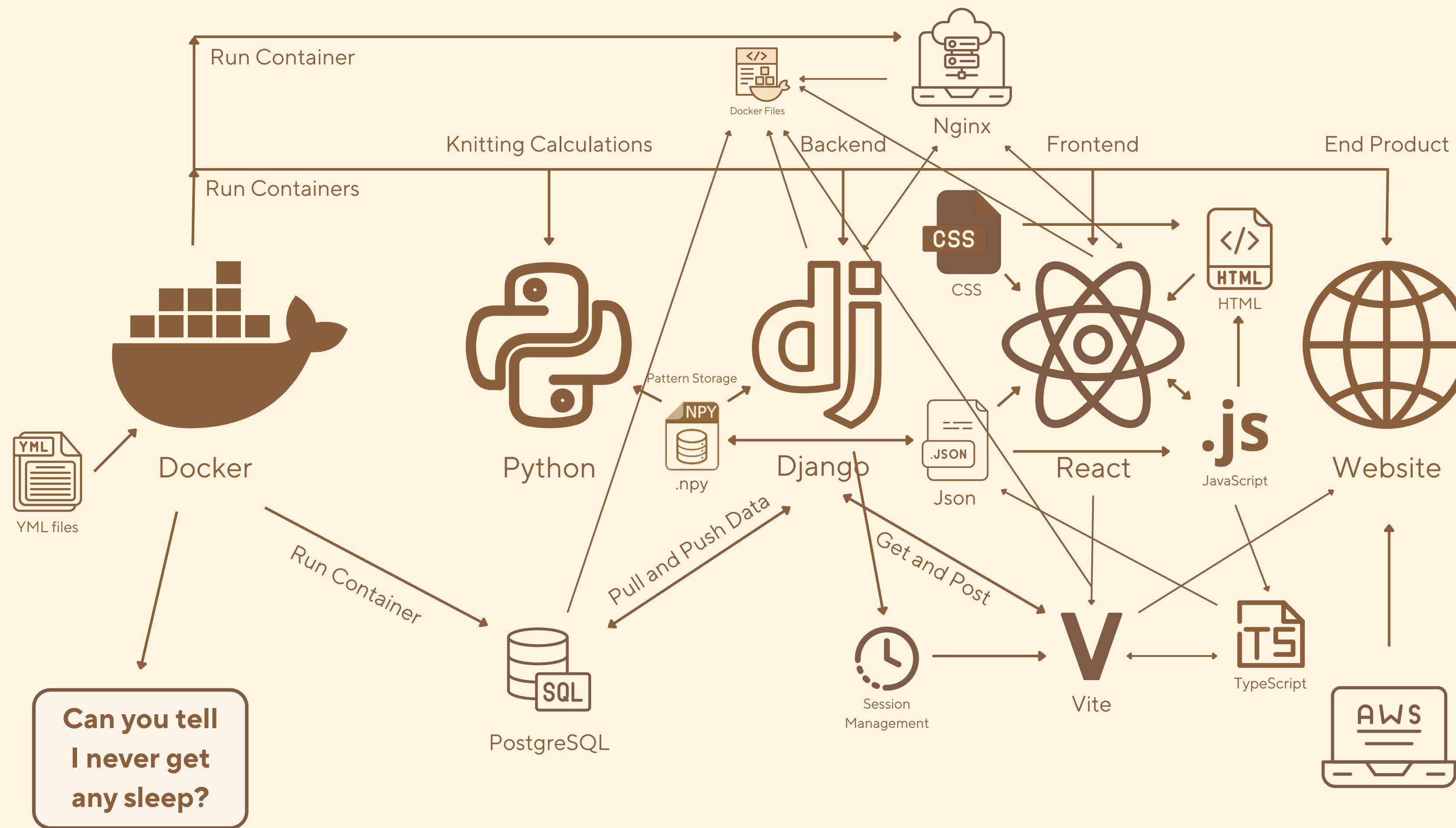
Taper:

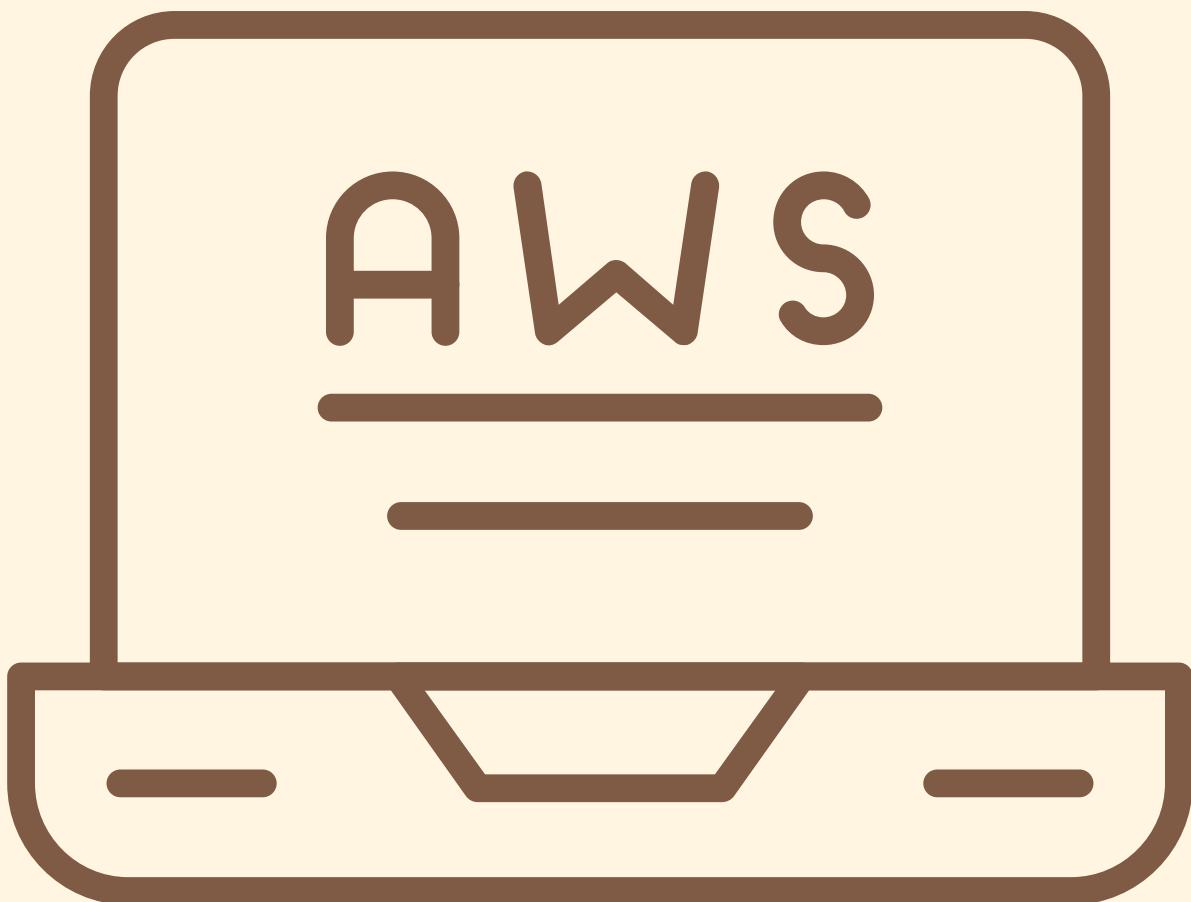
Neck:

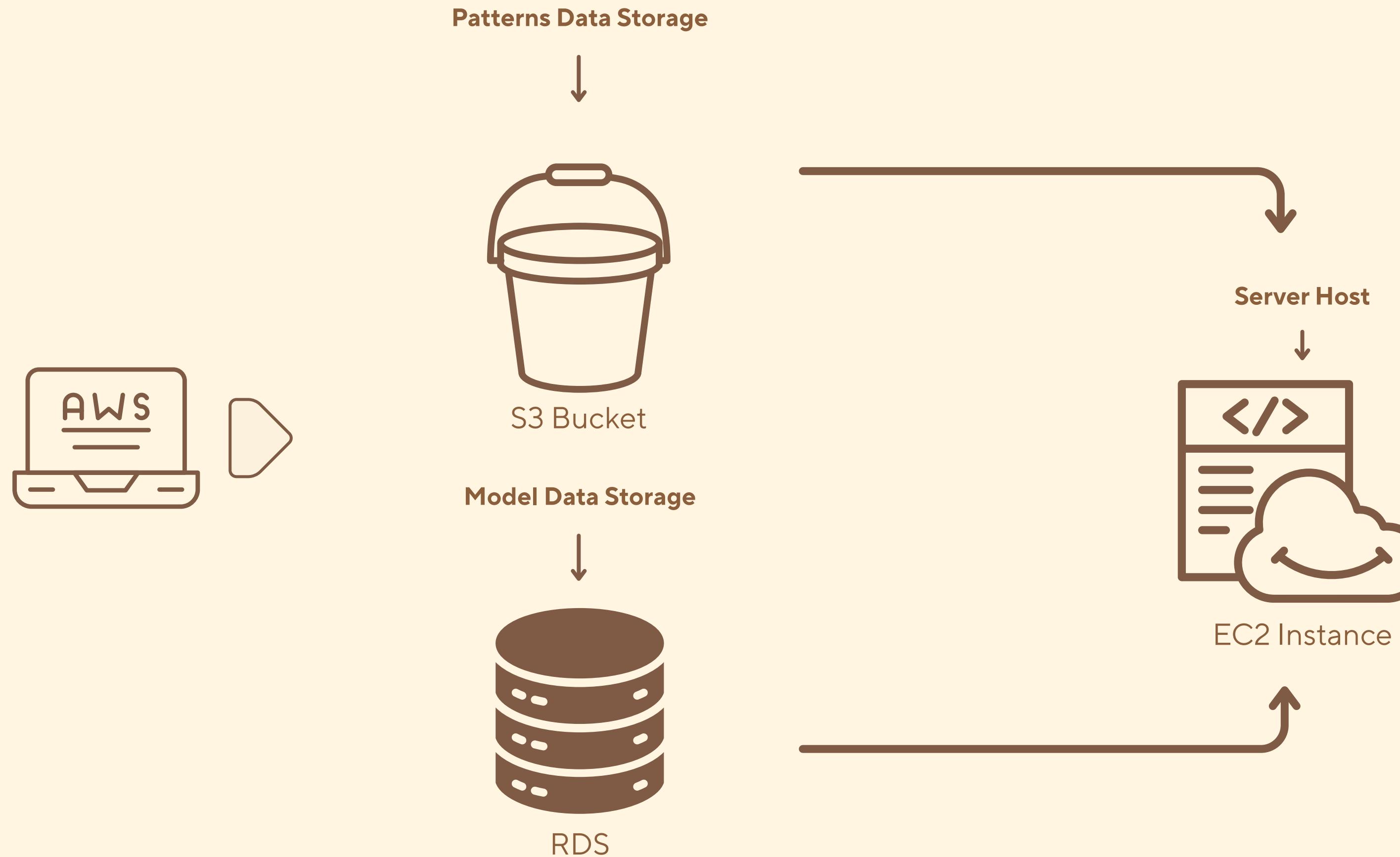
Full Tech Stack

Tech Stack

Knit To Knit







S3 Bucket

Knit To Knit



S3 Bucket

Objects (9)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your permissions. [Learn more](#)

Find objects by prefix

Show versions

Name	Type	Last modified
pattern_1/	Folder	-
pattern_2/	Folder	-
pattern_3/	Folder	-
pattern_4/	Folder	-

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your permissions. [Learn more](#)

Find objects by prefix

Name	Type
pattern_pieces.npz	npz

pattern_pieces.npz [Info](#)

[Copy S3 URI](#) [Download](#) [Open](#) [Object actions](#)

[Properties](#) [Permissions](#) [Versions](#)

Versions (4)

[Download](#) [Open](#) [Delete](#) [Actions](#)

Version ID	Type	Last modified	Size	Storage class
7mRvtDLn5GiOCFPf_BrQ_h... (Current version)	npz	March 4, 2025, 10:08:50 (UTC-06:00)	144.5 KB	Standard
R3lcdYF4uO.2IFcXDBAWV7...	npz	March 3, 2025, 12:52:24 (UTC-06:00)	144.5 KB	Standard
IZom.Q1JSqEA.F69_UYRaYc...	npz	March 3, 2025, 12:43:47 (UTC-06:00)	144.5 KB	Standard
vV3SZzQLe6RI8nzreJYjniiz...	npz	March 3, 2025, 12:29:20 (UTC-06:00)	144.2 KB	Standard

S3 Bucket

Knit To Knit



Patterns



Profile Photos



Marketplace Listing Info



EC2 Instance



EC2 Instance

SSH Connect

```
(.venv) marcocassar@Marcos-MacBook-Pro knit_to_knit % make connect-aws
```

Looking at the files

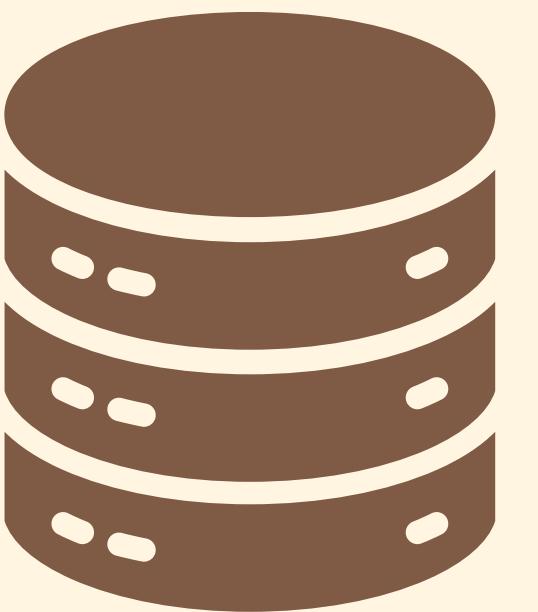
```
,      #_
~\_\_ #####_      Amazon Linux 2023
~~ \_\#####\
~~   \###|
~~     \#/ ___  https://aws.amazon.com/linux/amazon-linux-2023
~~       V~' '->
~~~      /
~~.._. _/
~/_/
~/m/'
```

Last login: Fri Mar 28 18:01:40 2025 from 62.106.78.210

```
[ec2-user@ip-172-31-11-23 ~]$ ls
Makefile backend docker-compose.yml logs media_backup nginx
[ec2-user@ip-172-31-11-23 ~]$
```

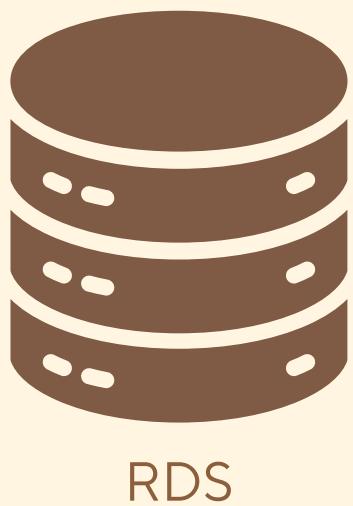
Backend Stack

```
[ec2-user@ip-172-31-11-23 backend]$ ls
Dockerfile app.log app.log.1 app.log.2 app.log.3 authentication backup.json core entrypoint.sh error.log manage.py patterns requirements static staticfiles
```



RDS

What data does it hold?

A screenshot of a web-based database management interface. The top navigation bar has tabs for 'AUTHENTICATION AND AUTHORIZATION' and 'PATTERNS'. Under 'AUTHENTICATION AND AUTHORIZATION', there are sections for 'Groups' and 'Users', each with 'Add' and 'Change' buttons. Under 'PATTERNS', there is a section for 'Patterns' with 'Add' and 'Change' buttons, followed by four specific pattern entries: 'Separated sweaters', 'Sleeve_projections', 'Swatches', and 'Torso_projections', each with its own 'Add' and 'Change' buttons.

AUTHENTICATION AND AUTHORIZATION	
Groups	+ Add Change
Users	+ Add Change
PATTERNS	
Patterns	+ Add Change
Separated sweaters	+ Add Change
Sleeve_projections	+ Add Change
Swatches	+ Add Change
Torso_projections	+ Add Change



PostgreSQL

Knit To Knit Demo

KnitToKnit.com

Credentials

Username *belmont*

Password *SparkTest!*

Q&A

Feel free to ask any questions you may have.
I'll do my best to answer them!

Thank You

Knit To Knit