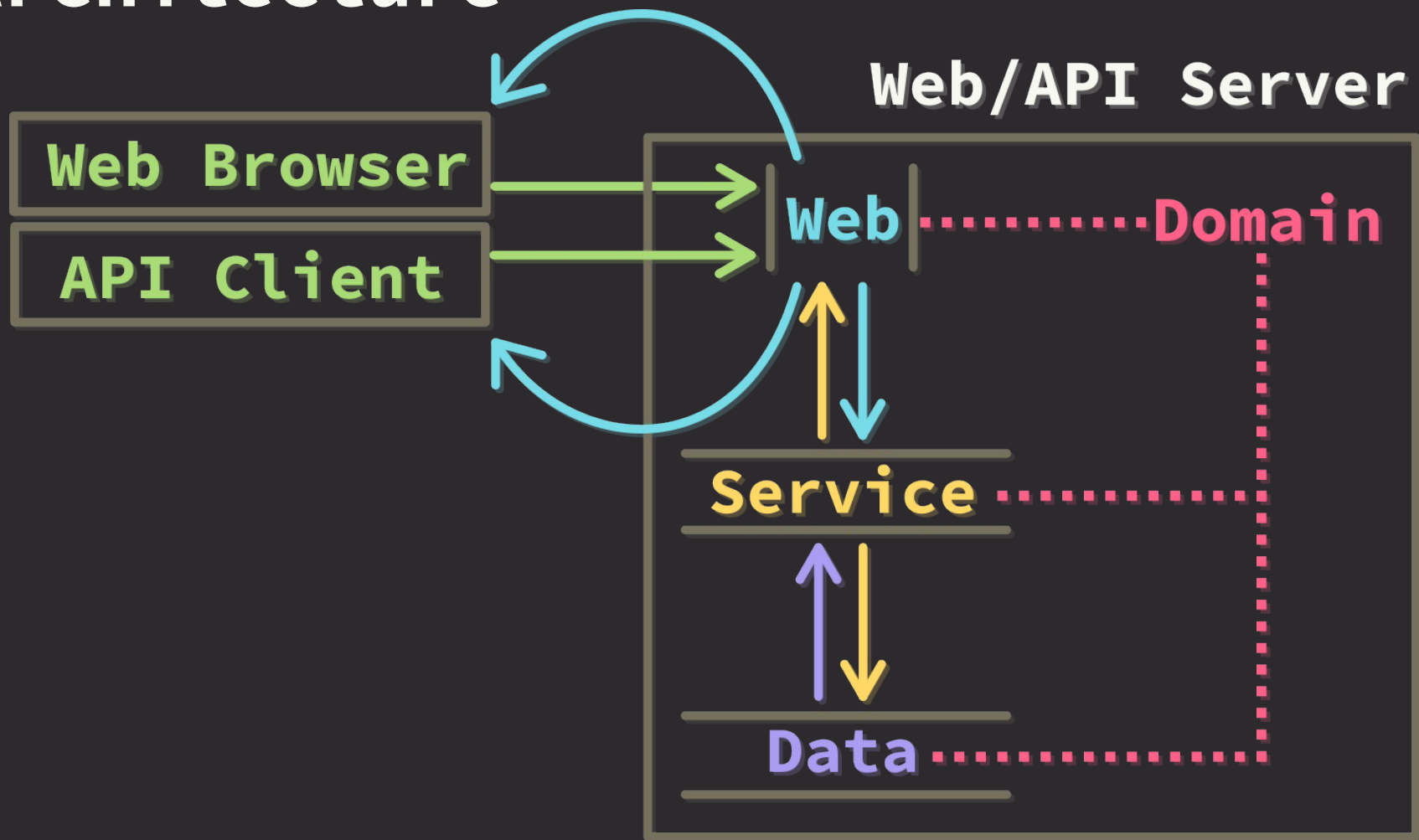# ClipStash
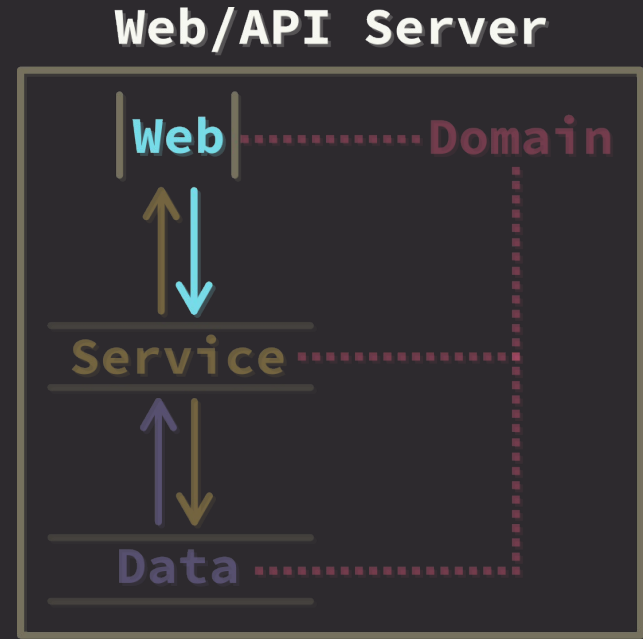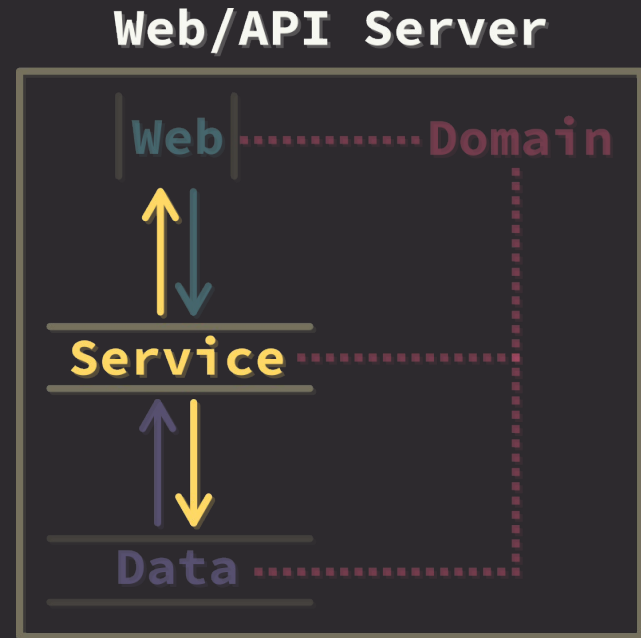## Architecture

Architecture

Web Component

- Communicates with the outside world
  - Reports errors
  - Renders pages
  - Provides API
- Manages application state
  - Establishes database connections
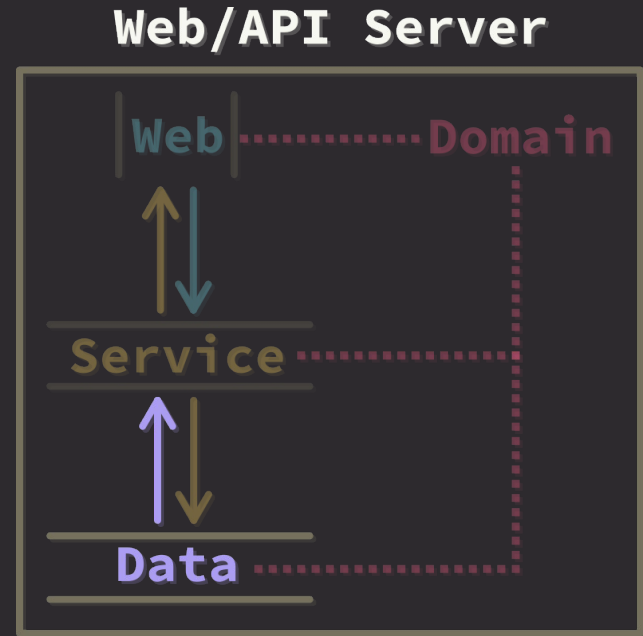 - Binds ports
  - Spawn background tasks

Web/API Server

Web ---------- Domain

Service -------

Data -------

Service Layer

- Intermediate layer between web requests and database

- Abstracts user requests and data access

- Application logic is applied here

  - Will apply to all clients accessing the system

Web/API Server

Data Layer

- Manages data storage & retrieval
- Works directly with database
- No logic outside of queries
  - All incoming and outgoing data is unmodified
  - Maintains internal consistency when applicable

Domain

- Data types that are shared with all layers & components

- Enforces business rules on data
  - Domain objects cannot be created unless all rules pass
    - Ok to access from any layer

Web/API Server

Web ---------- Domain

Service

Data