

Erbut: An Elegant Web-Based Linkfolio

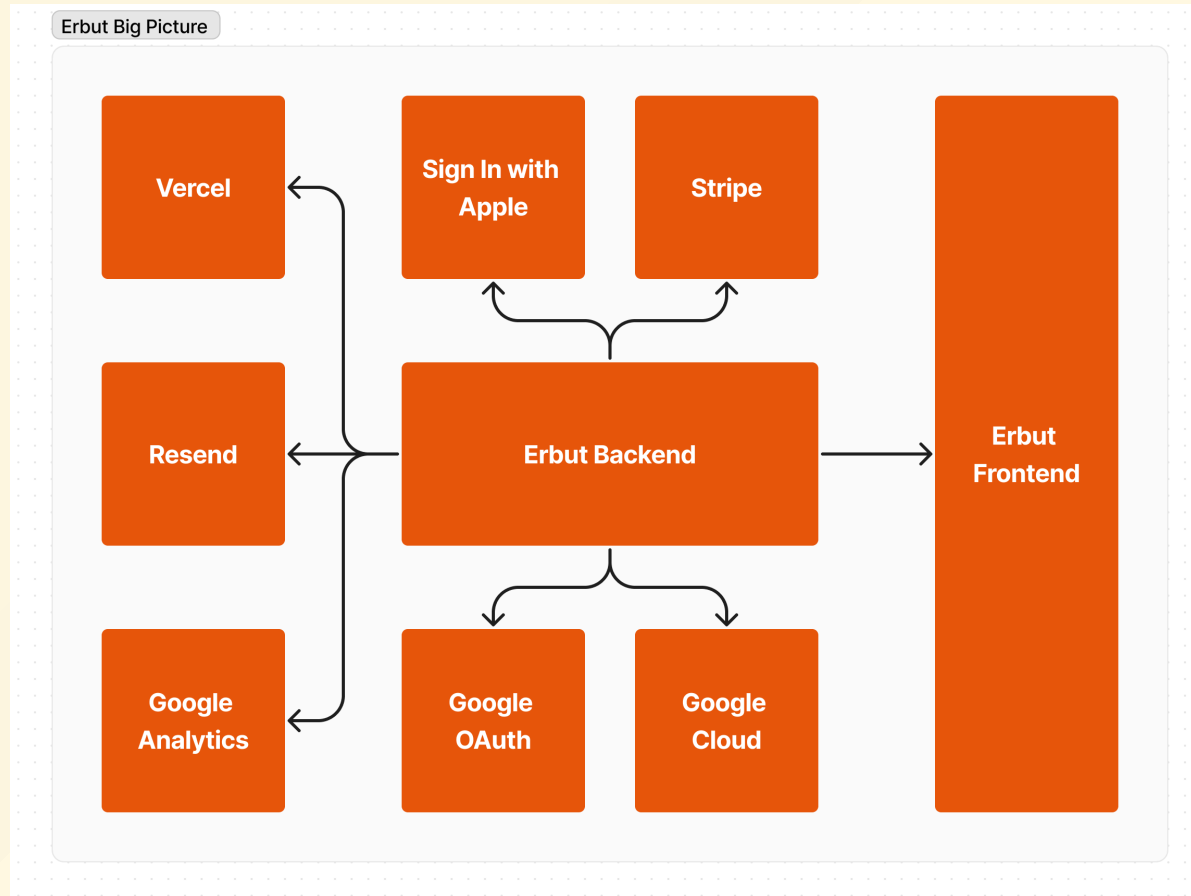
Introduction

- **What is Erbut?** A platform for creating 'Erbut's'—elegant, personalized linkfolios.
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- **Course:** SWE 302 - Software Design & Architecture
- **Instructor:** Dr. Ahmed Ghoneim
- **Date:** 25 Mar, 2024

System Overview

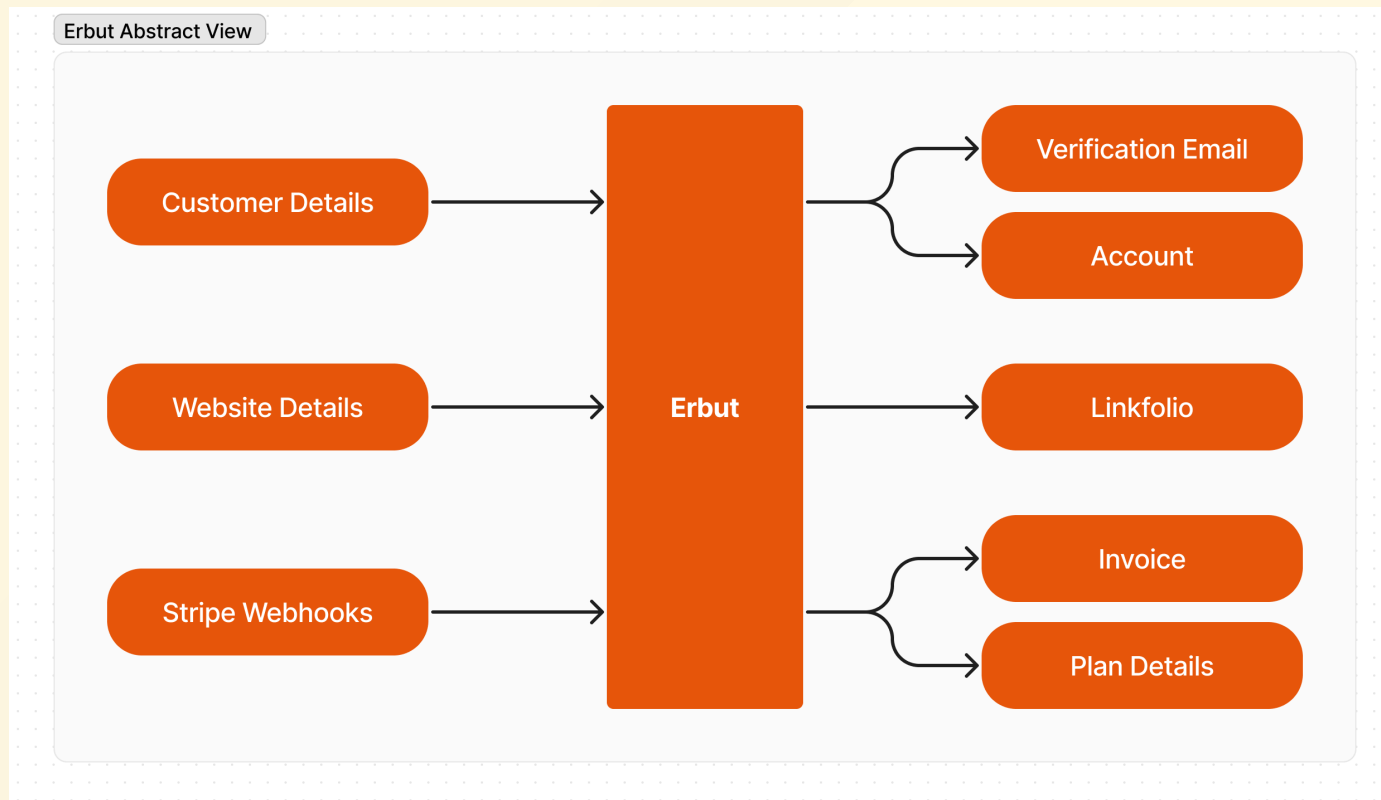
Big Picture

A glance at Erbut's architecture, integrated with **Vercel**, **Stripe**, **Google Analytics**, and more.



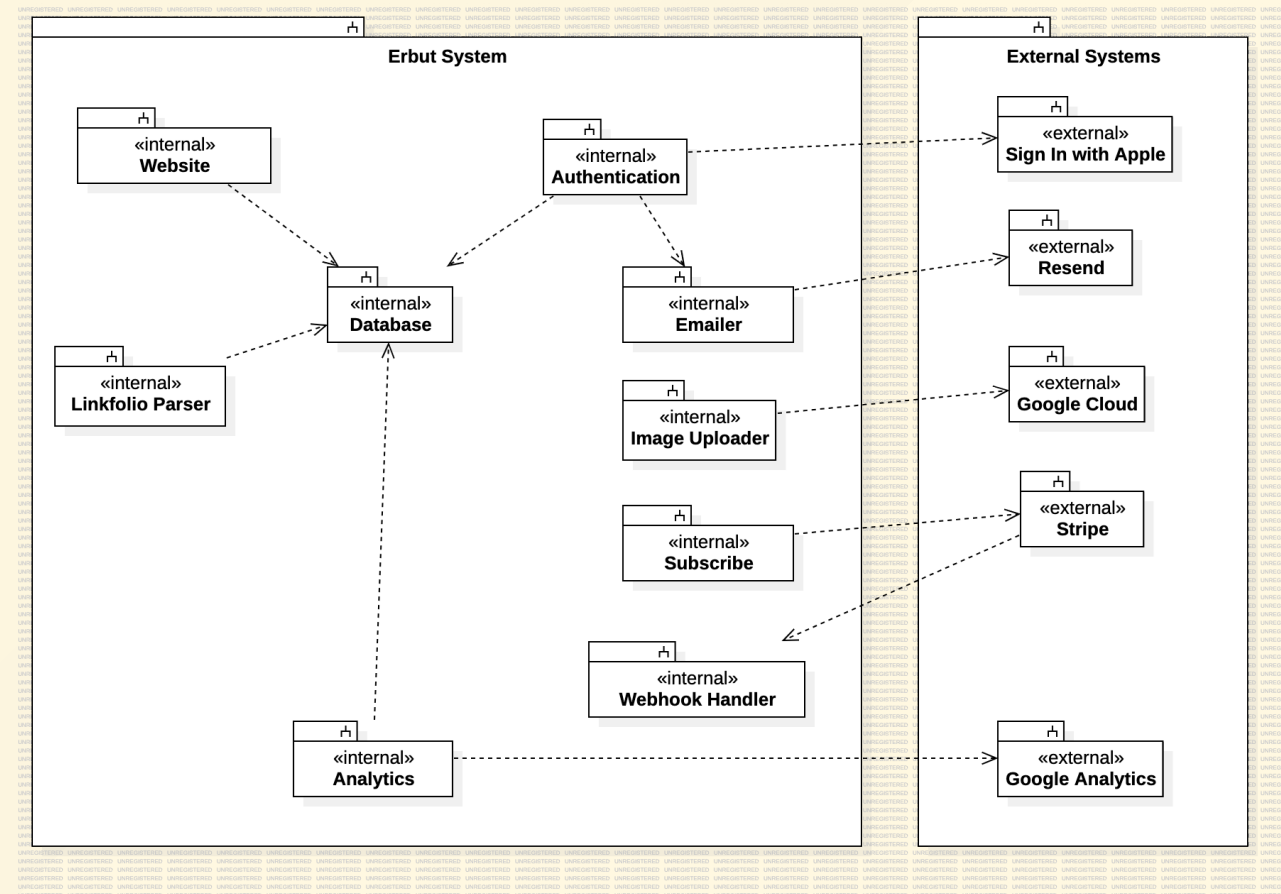
Abstract View

- **Inputs:** Customer Details, Website Details
- **Outputs:** Erbut Linkfolio



Subsystem View

Highlighting both **Internal** and **External** Components, focusing on modularity and integration.



Subsystem Functionalities

Discussing the functionalities of **Database**, **Authentication**, **Website**, and **External Services** like Google Cloud and Stripe.

Key Internal Subsystems

- **Database:** For customer and website data.
- **Authentication:** For user login and security.
- **Website & Linkfolio Parser:** For creating and customizing linkfolios.
- **Mailer & Image Uploader:** For enhancing user engagement.

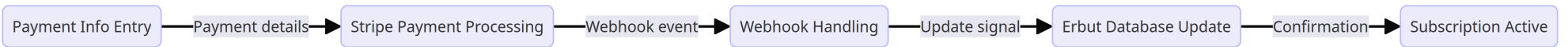
Key External Subsystems

- **Google Analytics:** For visitor tracking.
- **Stripe:** For payment processing.
- **Resend:** For email automation.

Data Flow Diagrams

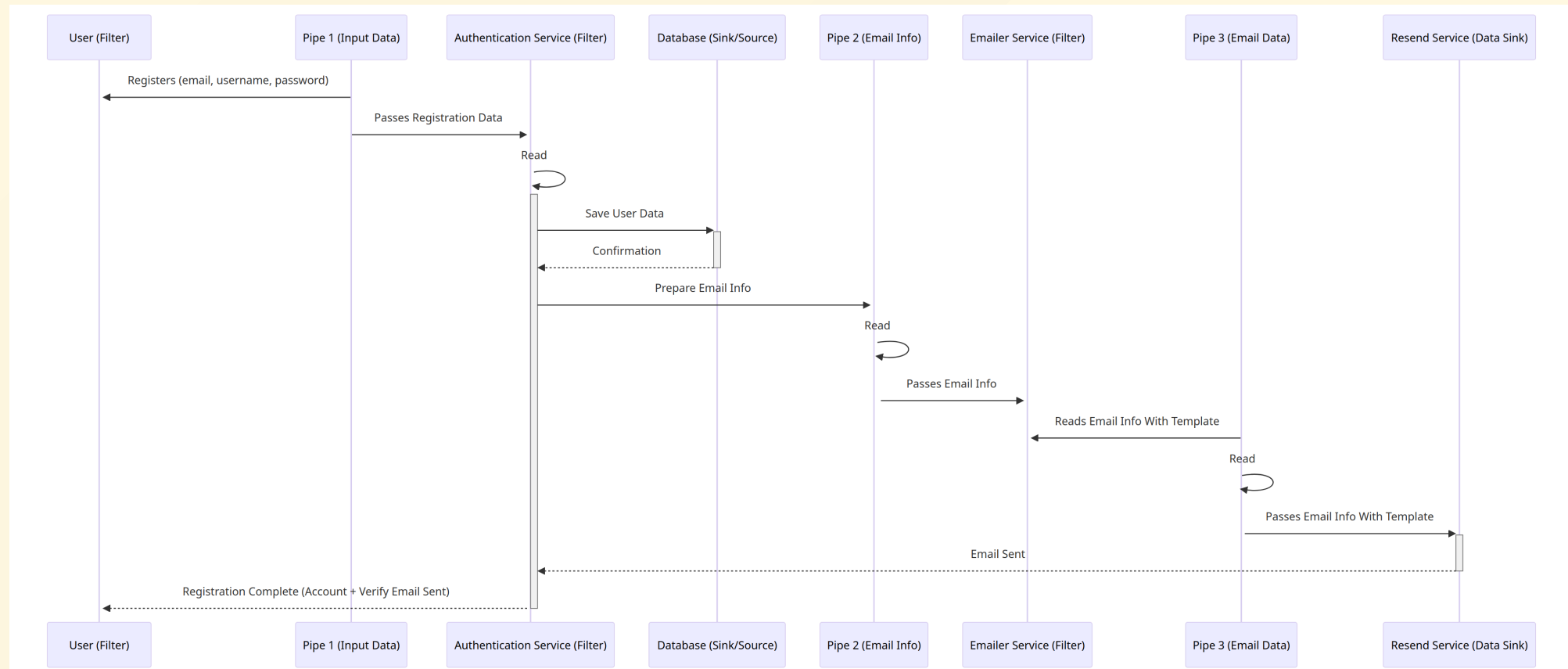
Batch Sequential

From **payment information** to **subscription activation**.



Pipe and Filter

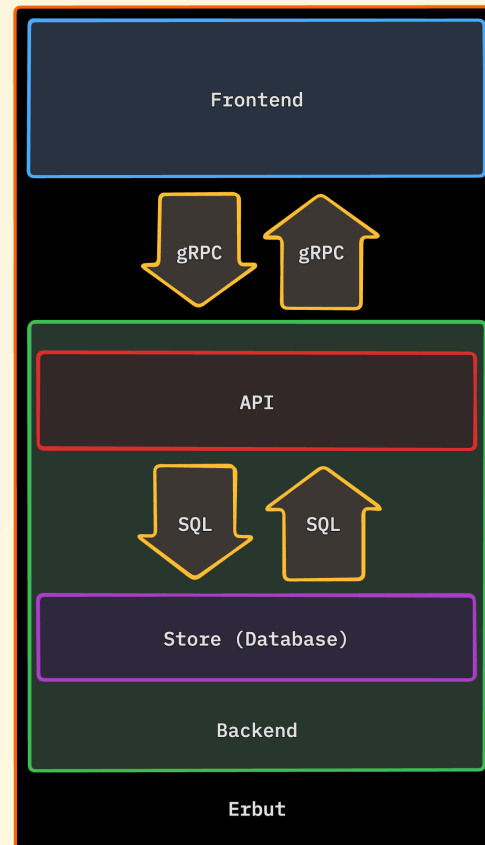
Visualizing the **user registration** data journey.



Architecture Deep Dive

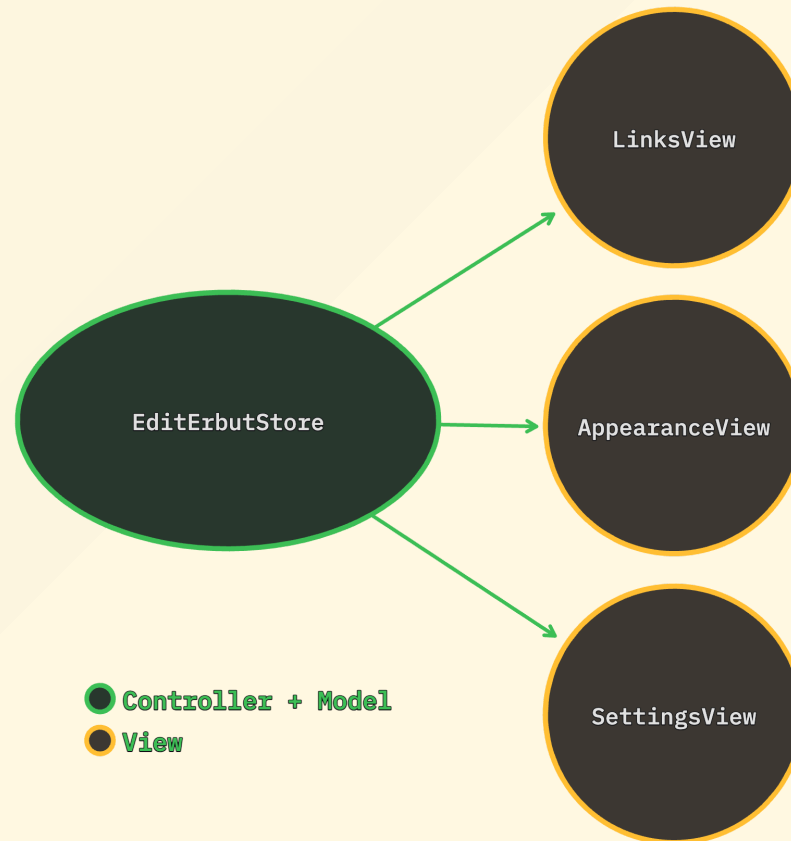
Layered Architecture

Detailing the **Presentation, Application, and Data** layers.



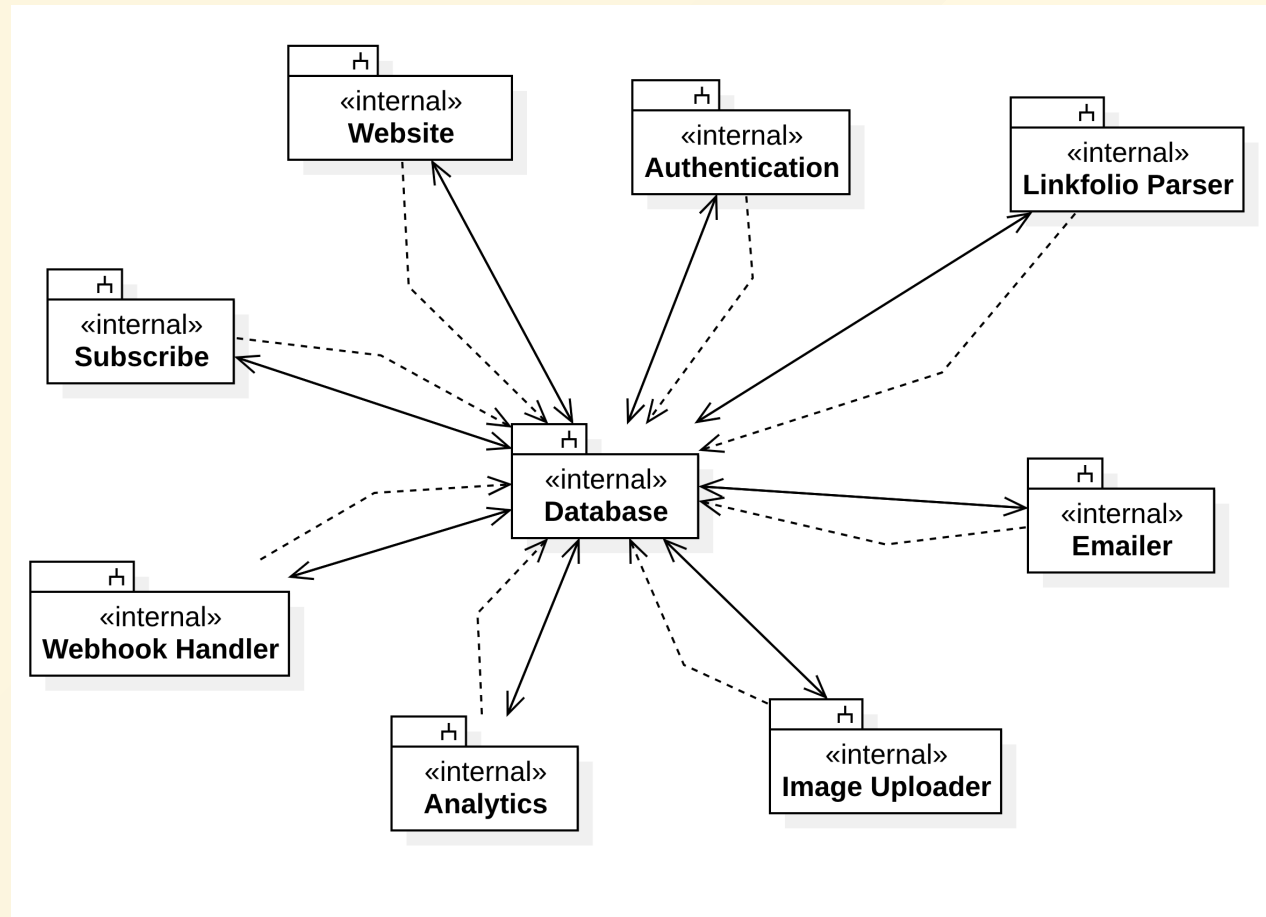
MVC in Action

Exploring the **Model-View-Controller** pattern in our frontend development.



Repository Diagram

Detailing **data management** and subsystem interactions.



Conclusion

Erbut blends scalable architecture with user-centric design for a unique online presence.