

Software Architecture

for Developers



A METÁFORA DOS MAPAS



Like source code, Google Street View provides a very low-level and accurate view of a location.



Navigating an unfamiliar environment becomes easier if you zoom out though.



Zooming out further will provide additional context you might not have been aware of.



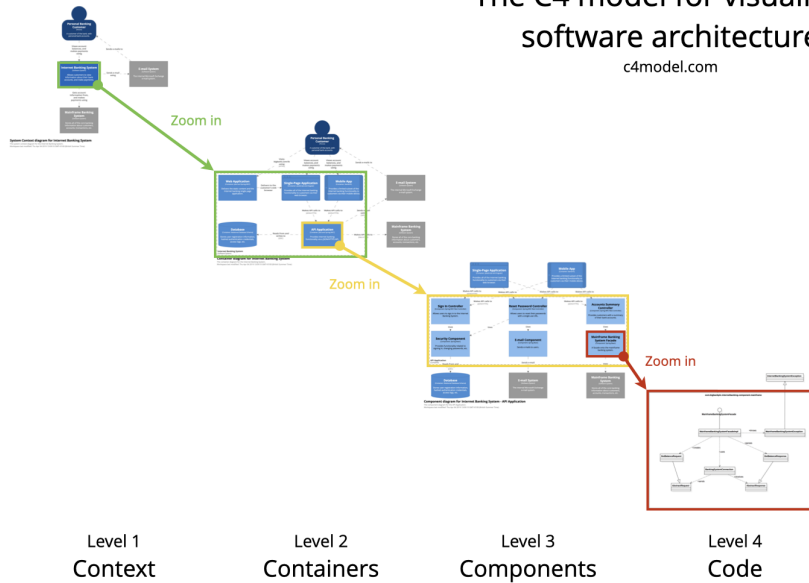
Different levels of zoom allow you to tell different stories to different audiences.

- Diferentes níveis de detalhes.
- Diferentes visões.
- O foco inicial está na estrutura estática.

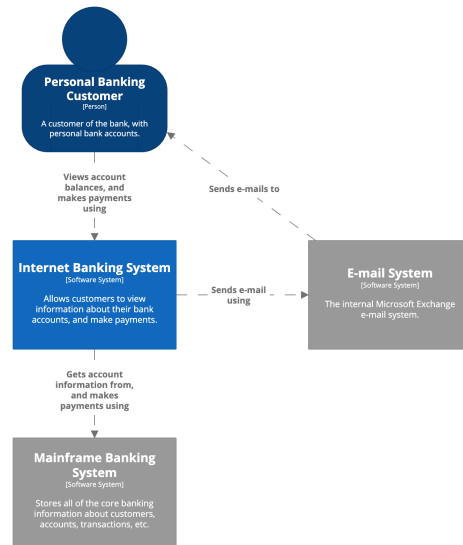
C4: CONTEXTO, CONTAINERS, COMPONENTES E CÓDIGO

The C4 model for visualising
software architecture

c4model.com



NÍVEL 1: DIAGRAMA DE CONTEXTO

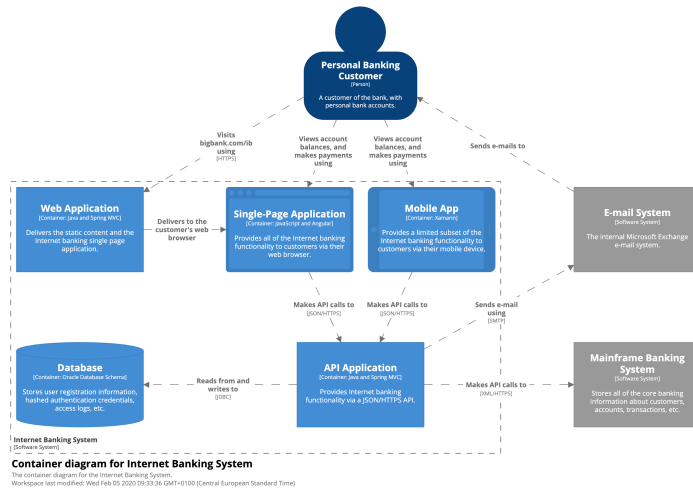


System Context diagram for Internet Banking System

The system context diagram for the Internet Banking System.
Workspace last modified: Wed Feb 05 2020 09:33:36 GMT+0100 (Central European Standard Time)

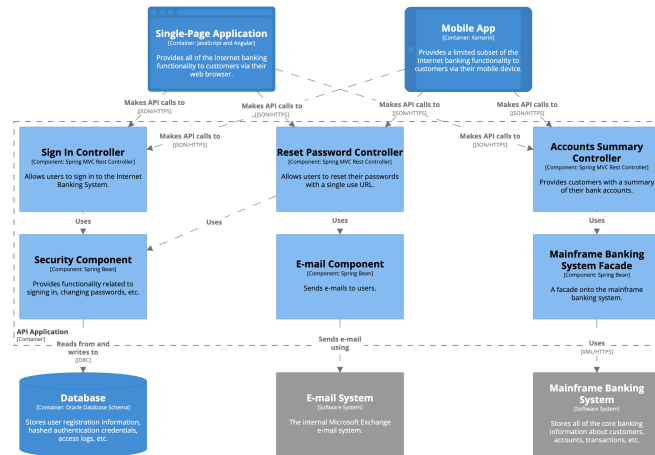
NÍVEL 2: CONTAINERS

- Containers: also implantável.
 - single-page application, datastore*, aplicação desktop, aplicação mobile, microserviços, aplicação do lado do servidor...



NÍVEL 3: COMPONENTES

- Componentes: abstrações com responsabilidades específicas, coesas e delimitadas.
 - Componente de envio de email, componente de segurança, componente de estatísticas, *controllers*, fachadas...

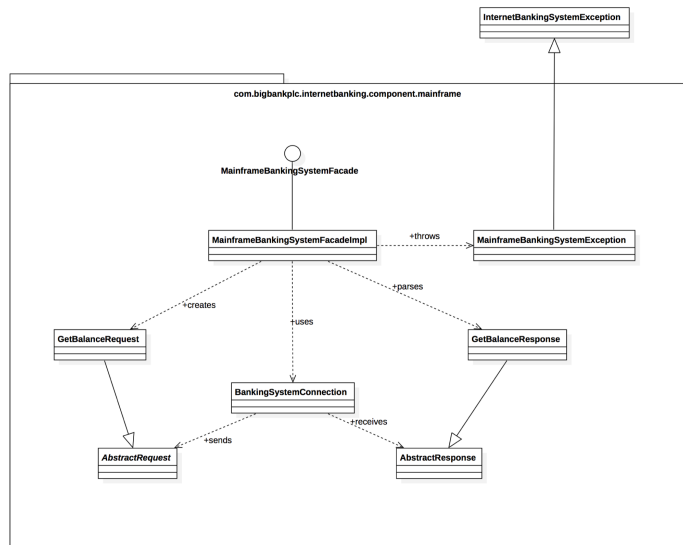


Component diagram for Internet Banking System - API Application

The component diagram for the API Application.
Workspace last modified: Wed Feb 05 2020 09:33:36 GMT+0100 (Central European Standard Time)

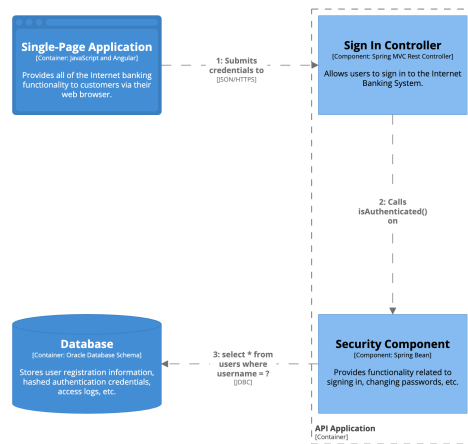
NÍVEL 4: CÓDIGO

- Proximidade com o design de baixo-nível.
 - Classes, interfaces, padrões de projeto...



ALGUNS OUTROS DIAGRAMAS

DIAGRAMA DINÂMICO

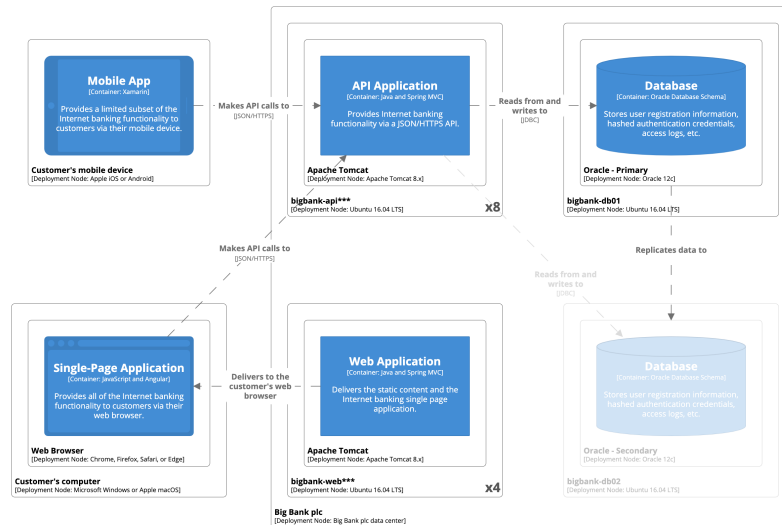


Dynamic diagram for API Application

Summarizes how the sign in feature works in the single-page application.
Workpage last modified: Wed Feb 05 2020 09:31:36 GMT+01:00 (Central European Standard Time)

ALGUNS OUTROS DIAGRAMAS

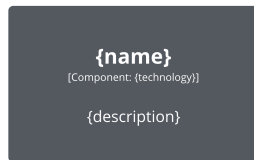
DIAGRAMA DE IMPLANTAÇÃO



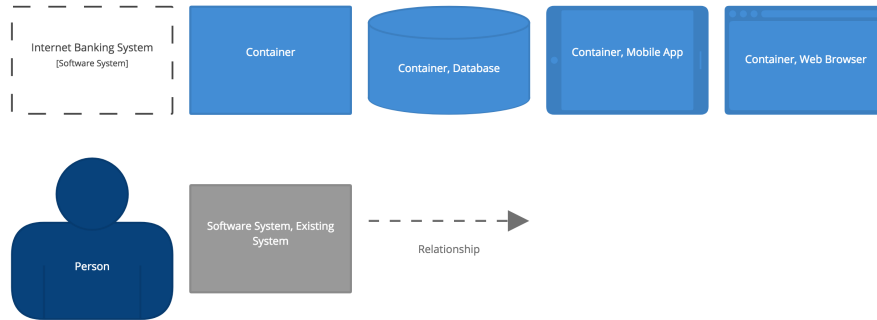
Deployment diagram for Internet Banking System - Live

An example live deployment scenario for the Internet Banking System.
Workpage last modified: Wed Feb 05 2020 09:35:36 GMT+0100 (Central European Standard Time)

NOTAÇÃO

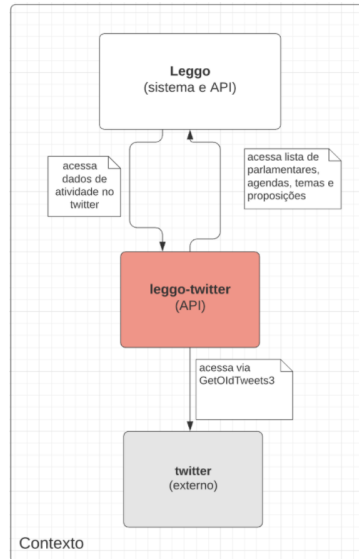


NOTAÇÃO



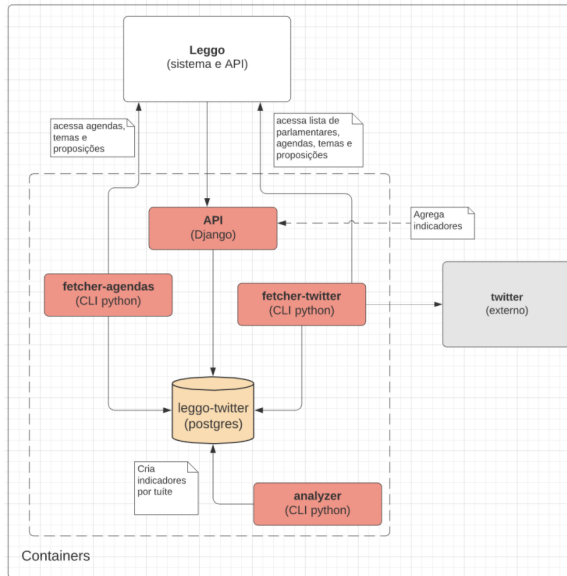
UM CASO CONCRETO: PARLAMETRIA

Serviço no twitter para um sistema já desenvolvido.



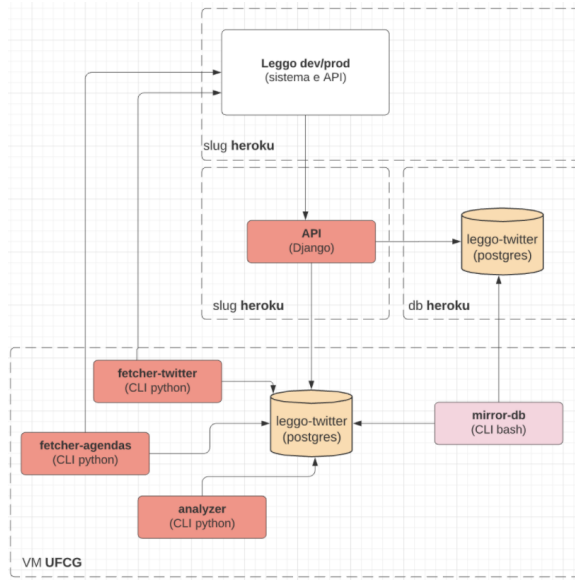
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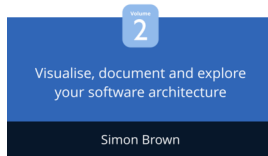


UM CASO CONCRETO: PARLAMETRIA

Mais detalhes: [documento de descrição arquitetural](#).

REFERÊNCIAS

Software Architecture for Developers



- <https://c4model.com/>
- <https://www.infoq.com/articles/C4-architecture-model>