


Moeda Estudantil

Laboratório de Desenvolvimento de Software
Engenharia de Software – PUC Minas
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Agenda



Contexto



Arquitetura MVC



Front-end / Back-end



Camada de persistência



Diagramas

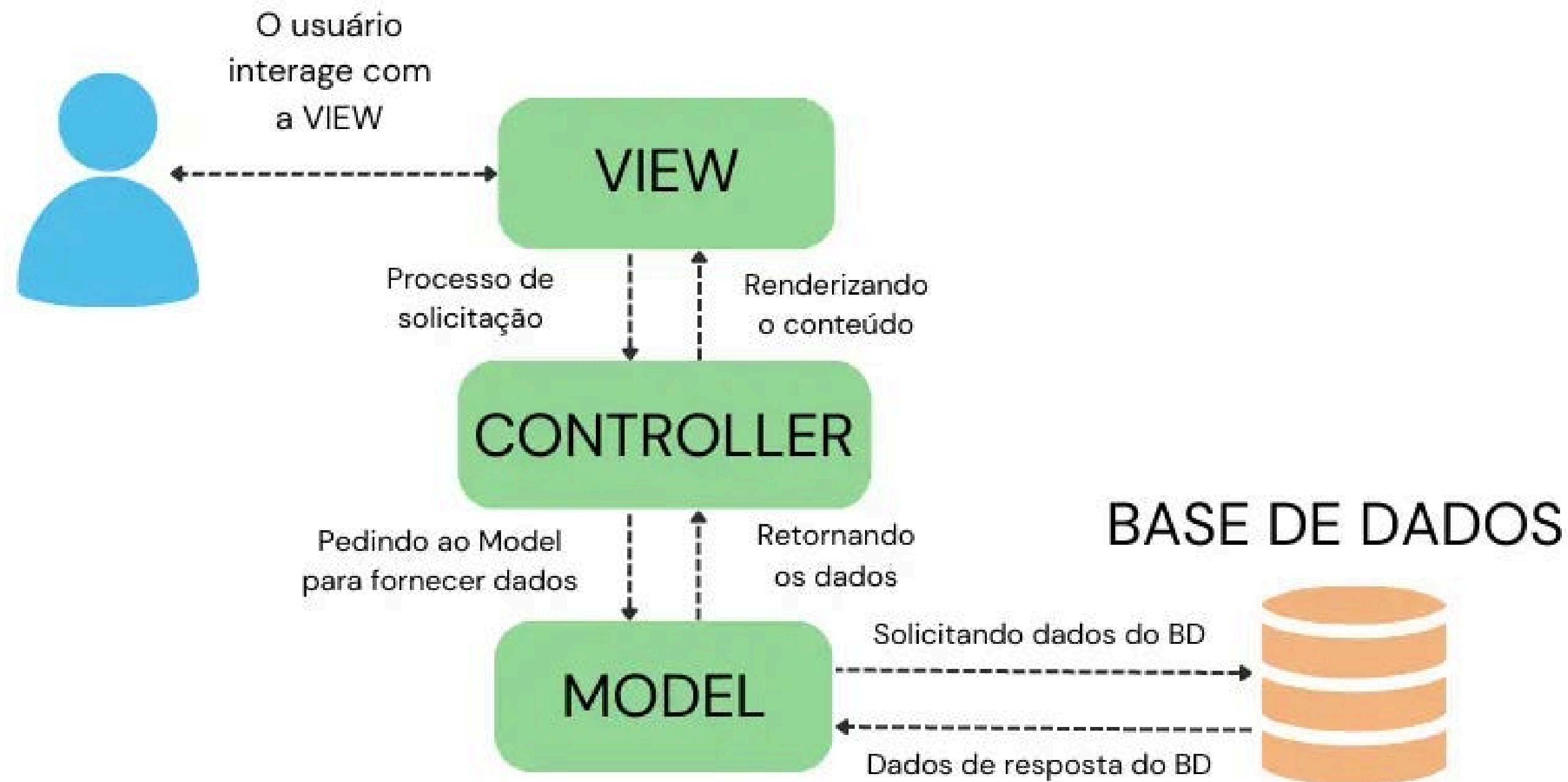


The background of the slide is a vibrant blue with a subtle grid pattern. On the left side, there is a collection of colorful, hand-drawn illustrations: an orange wallet with a green card featuring a 'C' logo, a green target with a yellow dollar sign in the center and several orange arrows hitting it, a white checklist with a pink border and several checkmarks, two large yellow coins with orange dollar signs, and a small green potted plant with a yellow and orange striped pot. The word 'Contexto' is written in a large, white, sans-serif font on the right side of the slide, with a small white starburst icon above it.

Contexto

Desenvolver um sistema para estimular o reconhecimento do mérito estudantil através de uma moeda virtual. Essa moeda pode ser distribuída por professores aos seus alunos e trocada pelos alunos por produtos e descontos em empresas parceiras.

Arquitetura MVC



Front-end



NEXT.js

 tailwindcss

// shadcn/ui

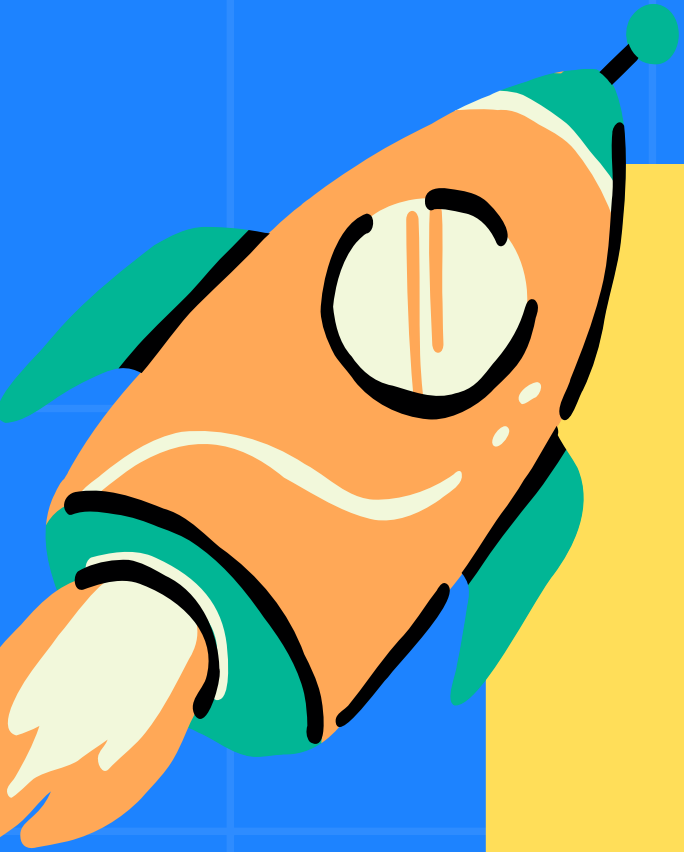
Back-end



 spring
Boot



Camada de persistência



- Baseada em **JPA** com o padrão **Repository** do **Spring Data**;
- As entidades foram mapeadas diretamente para tabelas no banco de dados **PostgreSQL** usando **ORM**, o que permitiu abstrair as operações de banco de dados e focar na lógica de negócio;
- Esse padrão também facilitou a **manutenção** e a **escalabilidade** da aplicação, além de reduzir o uso de SQL explícito.



Diagramas

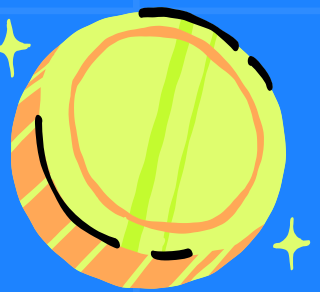
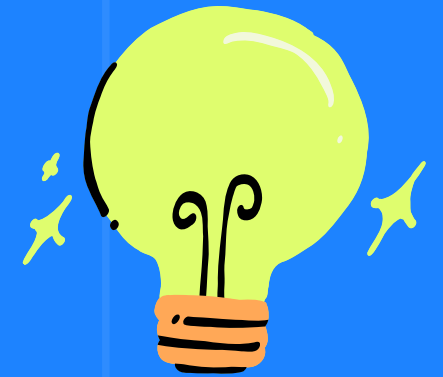


Diagrama Entidade-Relacionamento

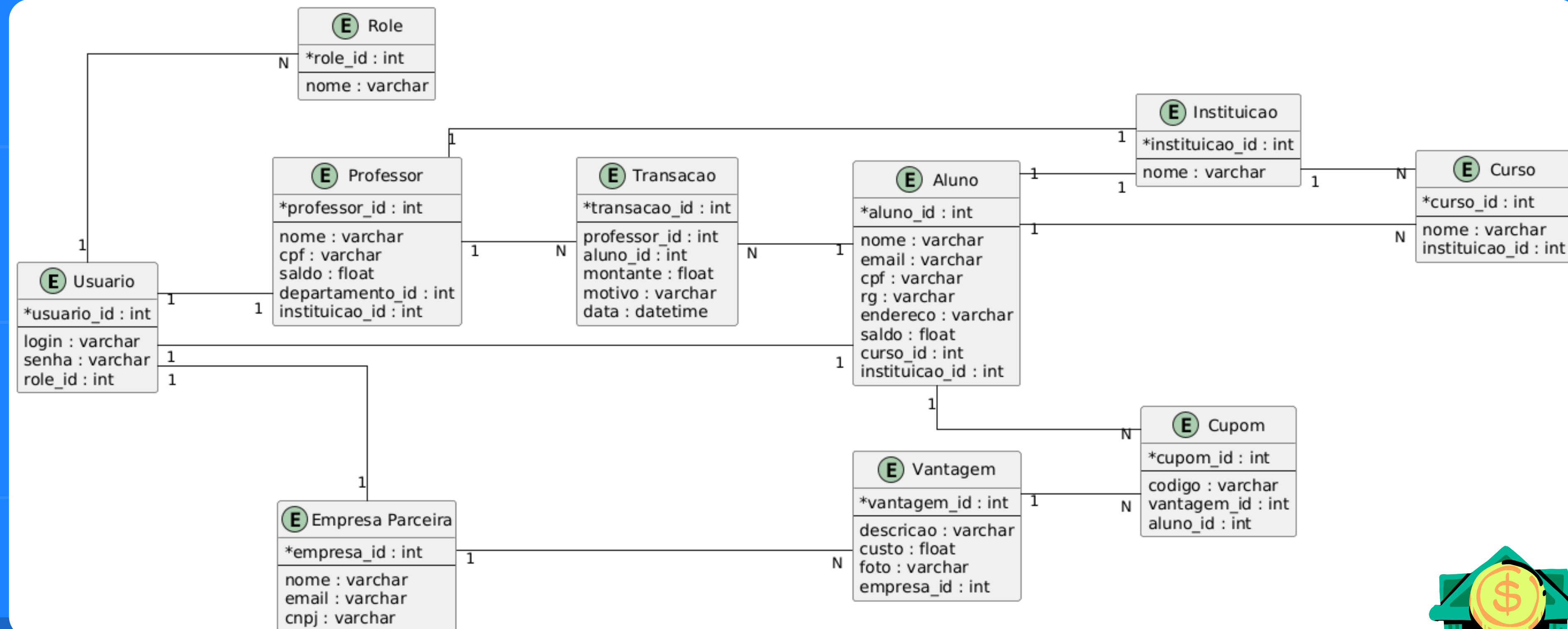


Diagrama de Caso de Uso

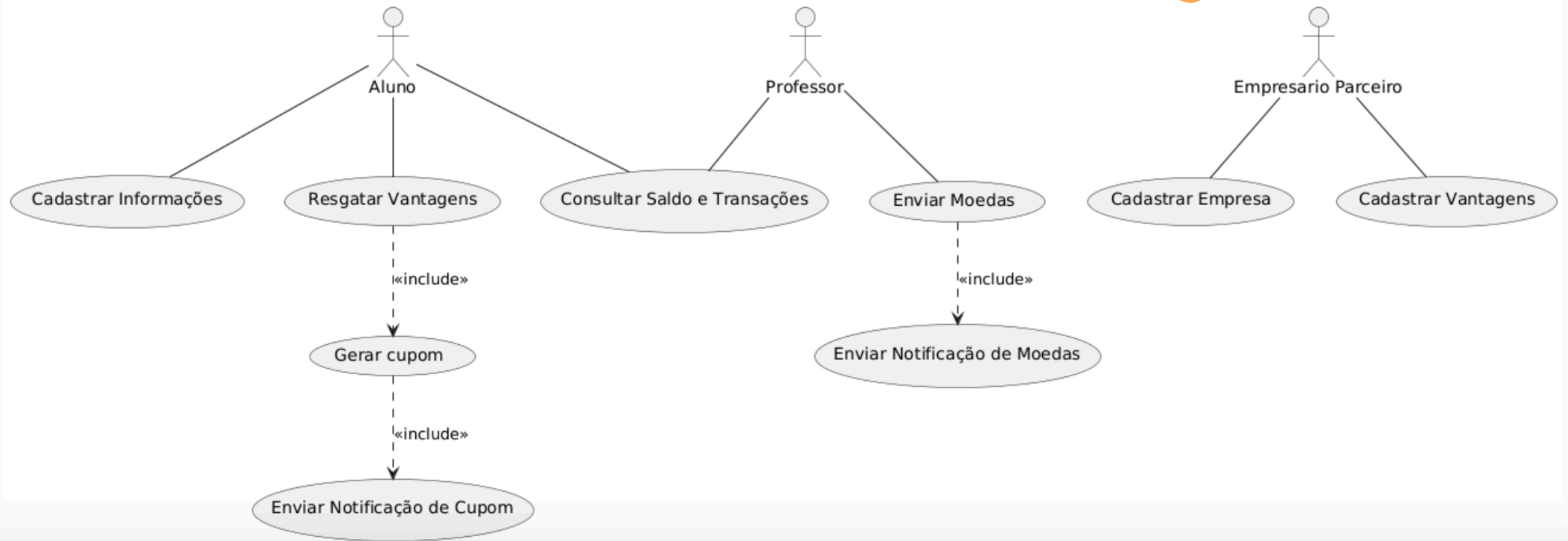


Diagrama de Classes

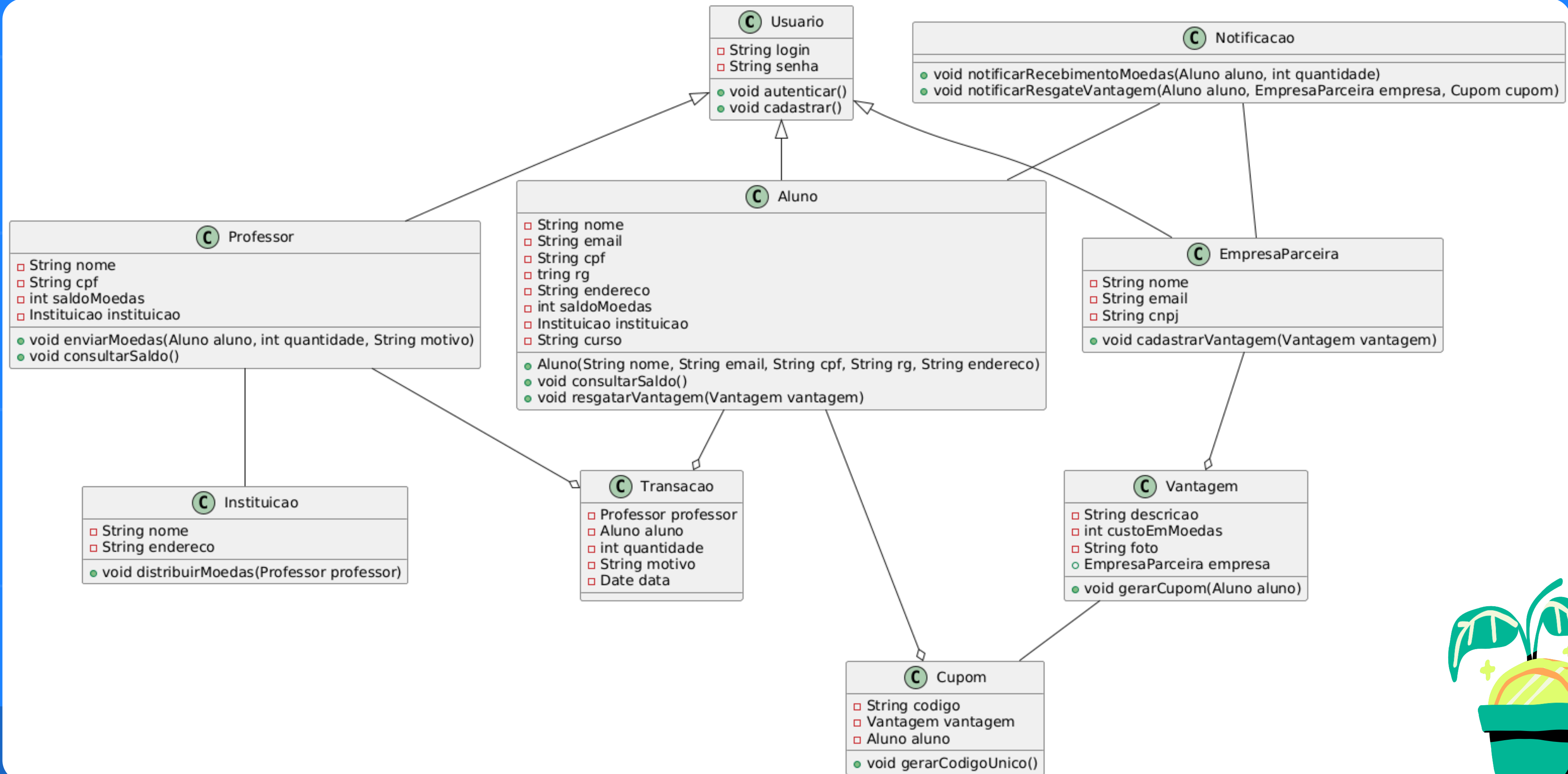


Diagrama de Componentes

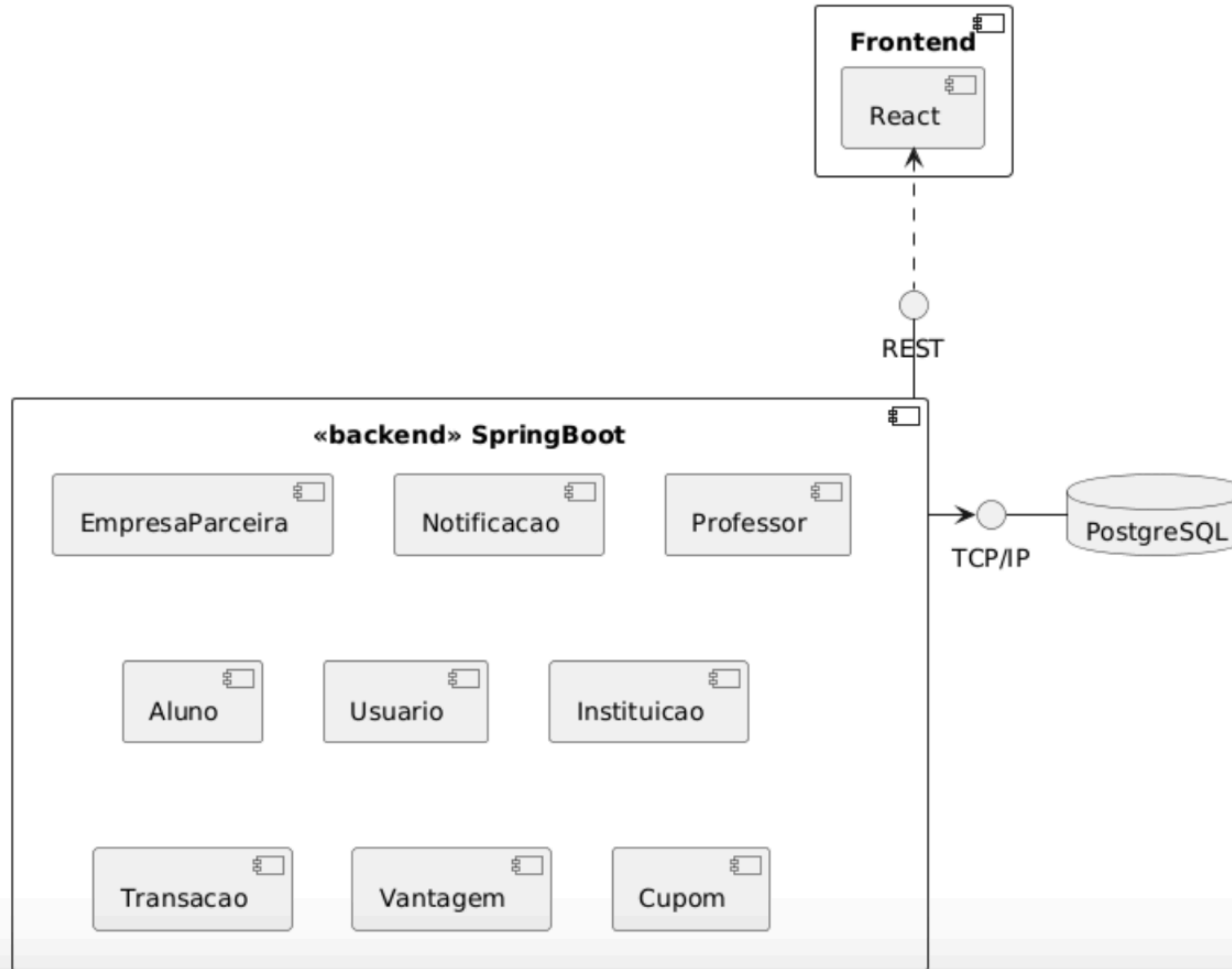
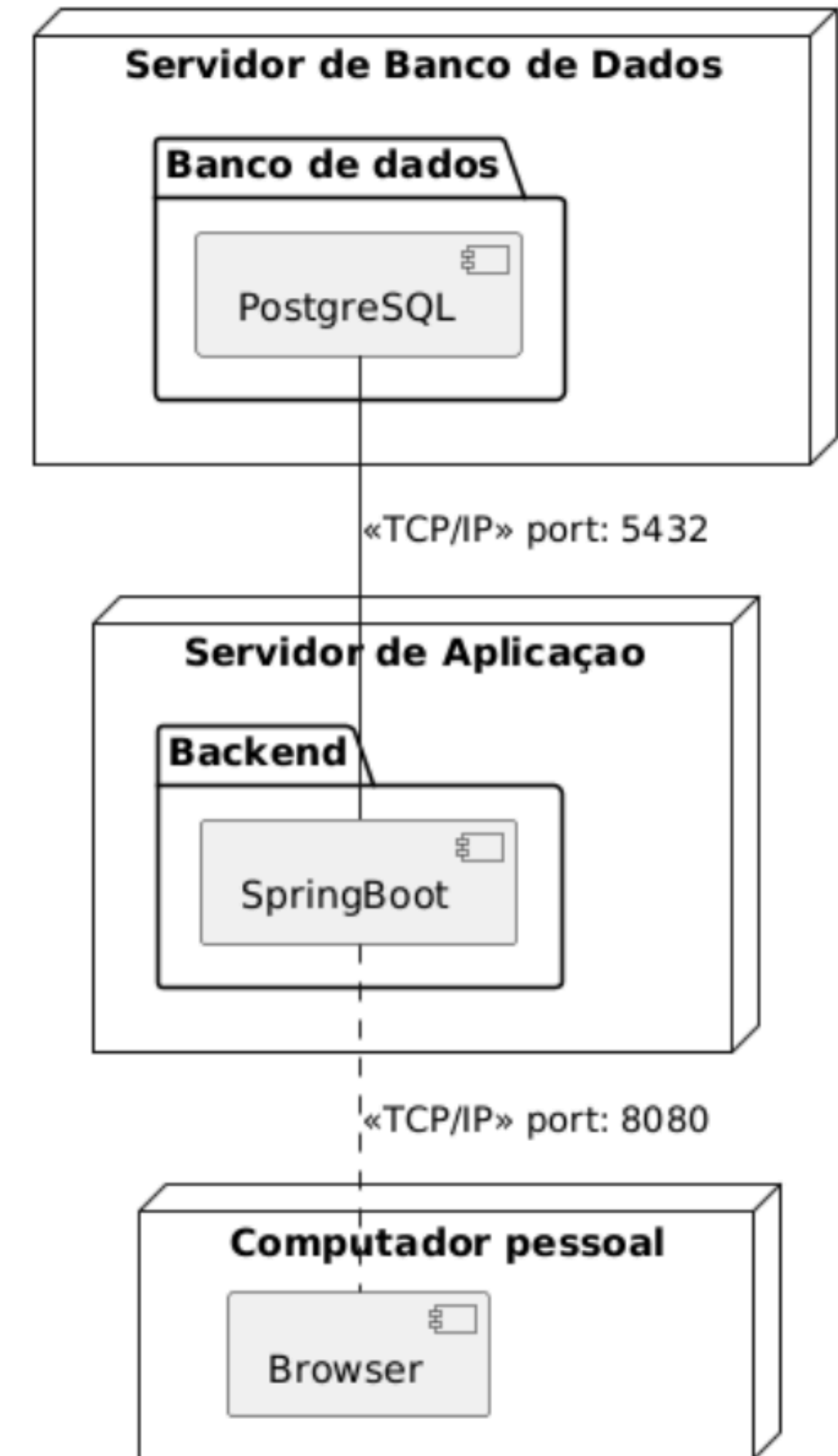
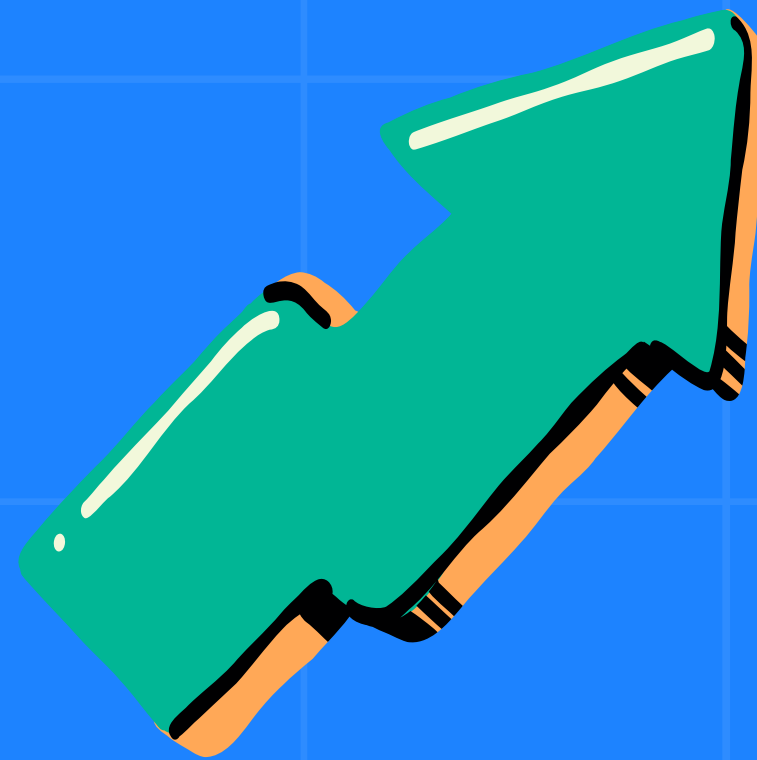


Diagrama de Implantação



Demonstração



Obrigado!

