ESCOLA SENAI

“PROF. DR. EURYCLIDES DE JESUS ZERBINI”

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Campinas SP

2021

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Projeto apresentado à Escola SENAI “Prof. Dr. Euryclides de Jesus Zerbini” para obtenção do certificado de conclusão do Curso Técnico de Desenvolvimento de Sistemas.

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Trabalho de conclusão de curso aprovado como requisito parcial para obtenção do grau de técnico, do curso Técnico de Desenvolvimento de Sistemas da Escola SENAI “Prof. Dr. Euryclides de Jesus Zerbini”.

**BANCA EXAMINADORA**

1º Examinador

2º Examinador

3º Examinador

Local e data

**DEDICATÓRIA**

Dedicamos esse trabalho primeiramente ao grupo que se manteve unido durante a realização do projeto. À estrutura que nos foi disponibilizada e aos professores que nos capacitaram desde o início da nossa jornada.

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**EPÍGRAFE**

**“A persistência é o caminho do êxito”.****Charles Chaplin**

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# INTRODUÇÃO

Com a pandemia do Covid-19, muitas empresas tiveram que se adaptar para se manterem funcionando, e uma dessas empresas, é a Robiel. Ao entrar em contato com a empresa, que trabalha com produção, manutenção e distribuição de injeção a diesel e peças para caminhão, surgiu uma proposta para que fosse feito um sistema para um melhor controle de cadastro de clientes.

Após uma análise dos requisitos e das necessidades do sistema, foi decido o que fazer: trata-se de uma plataforma para cadastrar os clientes da empresa, onde o foco é trazer facilidade para os funcionários.

Os clientes, normalmente são empresas também, e precisam ter seus dados cadastrados e exibidos para melhor organização e atendimento. Tudo deve ser datado para o melhor controle possível, como o momento em que foi realizado cadastro de um cliente.

Todos os requisitos são fundamentais para o projeto, além dos adicionais que vão ser ferramentas (tão necessárias quanto as outras) para melhorar o controle de vendas.

# JUSTIFICATIVA

Em meio a pandemia do Covid-19, a empresa viu a necessidade de um controle geral sobre cadastros e vendas de forma virtual. Por um dos integrantes do projeto ter contato direto com um funcionário da Robiel, houve uma conversa em que foi decidido que esse seria o projeto realizado.

O objetivo é que todos da empresa que tiverem acesso as suas respectivas áreas, possam facilitar o seu processo de trabalho de forma rápida e prática, tendo em visto que já havia um software anterior, porém não atendia as expectativas dos funcionários que o utilizava, como a falta de dinâmica quando eles desejavam algum dado do cliente, que era um processo lento.

# OBJETIVOS

Facilitar o dia a dia dos funcionários de forma que estes possam se organizar da melhor forma para atender aos seus clientes.

# Objetivos Gerais

Desenvolver sistema para web e aplicativo Android para consulta e organização de atendimentos realizados a clientes cadastrados.

# Objetivos Específicos

* Documentação de acordo com normas ABNT;
* Desenvolver tabela entidade/relacionamento e dicionário de dados;
* Desenvolver modelo lógico e conceitual;
* Banco de dados utilizando MySql;
* Conectar sistemas ao banco de dados;
* Desenvolver back-end do aplicativo em Java;
* Desenvolver back-end do sistema para web em C#;

# PRODUCT BACKLOG

* Gerenciamento de funcionários por um superior;
* Realizar login dos funcionários;
* Realizar login do gerente;
* Realizar cadastro de clientes;
* Realizar cadastro de produtos;
* Realizar busca e mostrar informações realizadas aos clientes;
* Registrar um histórico de cada ação realizada pelos funcionários;
* Alarme para ligação ao cliente;
* Gerar relatório de venda diária;

# REQUISITOS NÃO FUNCIONAIS

* Facilidade na utilização do sistema;
* Segurança em informações importantes, como senhas;
* Portabilidade para diferentes ambientes.

# PREMISSAS

* O projeto será desenvolvido por um grupo de 3 integrantes;
* Desenvolver projeto em casa e em ambiente escolar;
* Dúvidas serão esclarecidas com os professores;
* O aplicativo será desenvolvido para Android versão 4.1;
* O sistema precisa estar conectado à internet para funcionar corretamente;
* Será utilizado o programa Android Studio para o desenvolvimento do sistema *mobile*;
* O projeto será apresentado em julho.

# RESTRIÇÕES

* A estrutura do banco de dados será desenvolvida utilizando o aplicativo MySql Workbench 8.0 CE;
* O aplicativo mobile será desenvolvido na IDE Android Studio;
* O aplicativo mobile será desenvolvido para dispositivos com Android 6 ou superior;
* Nosso desenvolvimento web será feito pelo Visual Studio 2019;
* A documentação será realizada no aplicativo Microsoft Word;
* Os nossos serviços necessitam de conexão com a internet para ter acesso ao banco de dados e ao site;
* Sistema Operacional Windows 10 professional;
* Computador com no mínimo um Intel i5, 4GB de RAM e 500 GB de armazenamento.

# ANÁLISE DE RISCOS DE UM PROJETO

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TABELA DE RISCOS | | | | |
| ID | Ameaça | Impacto | Probabilidade | Risco |
| 1 | Falta de energia | 3 | 3 | 9 |
| 2 | Falta de internet | 2 | 3 | 6 |
| 3 | Falta de integrante | 2 | 1 | 2 |
| 4 | Falhas no software | 4 | 1 | 4 |
| 5 | Perda de dados | 4 | 1 | 4 |
| 6 | Atraso na execução | 4 | 2 | 8 |
| 7 | Eventos no Senai | 3 | 2 | 6 |

# Nível e Planos de Ação para os Riscos

|  |  |
| --- | --- |
| IMPACTO | |
| Nível | |
| 1 | Leve |
| 2 | Moderado |
| 3 | Sério |
| 4 | Crítico |

|  |  |
| --- | --- |
| PROBABILIDADE | |
| 1 | Pouco provável |
| 2 | Provável |
| 3 | Muito provável |

|  |  |
| --- | --- |
| NÍVEL DE RISCO | |
| ID | Risco |
| 1 | 9 |
| 6 | 8 |
| 7 | 6 |
| 2 | 6 |
| 4 | 4 |
| 5 | 4 |
| 3 | 2 |

# Planos de ação

**Risco 01 – Falta de Energia**

Plano 01:

* Realizar tarefas que não necessitam de energia, como continuar documentação, esboçar tarefas ou diagramas em folha de papel ou utilizar o celular para fazer alguma pesquisa.

**Risco 02 – Falta de Internet**

Plano 02:

* Utilizar celular para alguma pesquisa, continuar documentação.

**Risco 03 – Falta de integrante**

Plano 03:

* O integrante deve adiantar o máximo de tarefas possíveis em outro momento;
* Se o integrante não conseguir realizar, o restante do grupo realiza.

**Risco 04 – Falhas no software**

Plano 04:

* Pedir ajuda de um mentor;
* Utilizar outro software que atenda às necessidades.

**Risco 05 – Perda de dados**

Plano 05:

* Buscar backup;
* Realizar o processo perdido novamente.

**Risco 06 – Atraso na execução**

Plano 06:

* Realizar reunião para melhor divisão de tarefas a fim de realizá-las dentro do prazo;
* Adiantar o projeto sempre que puder.

**Risco 07 – Eventos no Senai**

Plano 07:

* Se houver atrasos no projeto, realizar tarefas em casa;
* Se necessário, reorganizar cronograma.

# SPRINTS

Apresenta-se nesta seção a documentação referente ao desenvolvimento do software.

# Primeiro Sprint

O foco do primeiro sprint é adiantar a documentação que foi exigida, elaborar o banco de dados e criar o front-end de algumas telas do aplicativo Android.

# Product Backlog

Não houve modificações no product backlog nesse sprint.

# Sprint Backlog

* Realizar login dos funcionários;

# Burn Down Chart

![Gráfico, Gráfico de linhas

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SiQRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA0OjE3IDE1OjU0OjMxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM0NAAAkpIAAgAAAAM0NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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pVaqqsKmU0AWFapVaq6tUitQBYVqkVqrhqkU0AWVapA1V1NSKaAJlapFaoFanq1AE4anBqiVqcGoAmVqeDUG6nhvXigC1DcSW774pGjb+8jEGrX9tX//AD/XP/f5v8azQ1P3VtGtUpq0JNL1IlThLWSuaP8AbV/3vrn/AL/N/jS/2xf9ft1z/wB/m/xrP3Gl3VX1it/O/vZPsqf8q+40l1y9XS7rTvPY2d1PFdTIwBLyRrIqNuIzws0gxnB3c5wMaFn421qxhhhgvTHFDp02lInlpj7LK8kkkZ45y8rtuOWBxgjaMc+GNLmsG23dmp0msePNW8QaVBYX32CaKGKGBJl0y2S42RII41M6xiRgEVV5Y8AVZ1X4oeKNb1S71G81eaS+uraKzlnVURvKikjljVSoG0h4o23Lg5XOeTnkwaMmkB2Wo/FjxNqizJLe28UUsE9s8VrYW9uhScoZvljjUBn8tMvjcQoGccVW0n4j+INEhsYLS+RbezgntYoJbaKWJoZm3SRyI6FZULYba4YAgEAHmuX3GjcfSgDX8ReJ9R8WX63mpzrNKkSQRrHCkMcUajCpHGihUUc/KoAySepNZqyGNgyMyupyGU4IPrmotx9KTcaN9GBtr4z19QANb1IAcAC7kH9aX/hNPEH/AEHdS/8AAyT/ABrDyaQmub6rQ/59r7kdX1rEf8/H97Nv/hNPEH/Qd1L/AMDJP/iqfb+Otftbhp11W5lmaGW333D+cVSRCj7d+dpKsw3DBGTgisHPsabuz7VUcPRg+aMEn6ImWIrTXLKba9Wb+l+ONb0VNJWzvfKXSbt72x3RI5glYJuYFlOQfLU7TkZBOMk0/wAM+Pta8Iwyw6bPb/Z5JUnNveWcF1EJUBCSKkyMFcBmAYAHB61zm7PvTSa3Oc6ab4j+I7jXNL1iTVJH1PTWL21wUTKsZWlZmGMOWd3ZiwO7cc5HFJrXxE1rX9FttLv2sJ7a2iSCB/7MtVnjjQ5VFmEYkCj03Yrmc0zdQA4mms1N3U0mgAZqaTSFqaWoAGao2ahmpjGgAZqYTSM1MY4oARjUbNSsaiY0ADNUTNSlqjZqAEY1ExpWb/OaiZvegBGNRM1OZutQswoAazVExpWaonNADWaoefX9aczVHux2J+gzQB//2Q==)

Figura 1: BurnDown - 1°Sprint

# Diagramas

![Diagrama

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TBaRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA0OjE3IDE2OjEyOjIxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM0NgAAkpIAAgAAAAM0NgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMTowNDoxMiAxOTo1MTo0NgAyMDIxOjA0OjEyIDE5OjUxOjQ2AAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAHq0AAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAkgEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9yxNNdyRrO0SpGh+VVOSS3qD6U/7LP8A8/0v/fCf4UAH2a4/5/pf++E/wrLW81A8NBqCnIHMcZ6gHsOxOKALFpJd3DhXa9hyCcyRpgdParn2Wf8A5/pf++E/woAT7LP/AM/0v/fCf4Uts0hMqO7OY5NobABPyg/1oAnGdo69B6Uc+/6UAHOP4v0pGztPXofSgBec9+vt6VVJuZbp4o5EjVERvmTcSST7j0oAf5V5/wA/MX/fk/8AxVHlXn/P1F/35P8A8VQBmy6rLAzLI75DMvFqT0IH973B+lTWd5cXrlUkKYUP+8tiuQeP71AFzybz/n6i/wC/J/8AiqTybzP/AB9Rd/8Alif/AIqgB1u8rGVZGDNHJt3KuAflB6Z96lGffoPSgBef9r9KOfft6UAMlkWGJpJCQqgknFRfa03E7Ljrn/UN6fSgA+1pj7lx2/5YN/hR9sjA5W4GScfuG/woAX7Yn9y4/wC/Df4Un2tMfcuP+/Df4UAL9sTP3Ljr/wA8G/wpFu48ohEyliFG6JlGfqRQBCUU3s7lZWxEnEblf73YEZqtBdtNOiHT7+NWHLNK/wAp54PNAEksrxyugsr1wrEBlmfBAxz19/0NWbVY7qDzdtzH8zLteVweCR6+1AE32WP+9N/3+f8Axo+yx/3pv+/z/wCNAB9lj/vTf9/n/wAahtVWOW6UZIE38WWP3F7mgCwMbRx2H8JpePT/AMdNABxjp/46aRsbTx2P8JoAOM9O/wDdPpVExB9QlO2VvkjB8uRkwMtycEZoAr+bPjJ029HA63h75/2v85qeVWTydlvcOXHzj7W4MfpnnmgBbRPPZlmt7qBlUHm4kI5APXOPb8DVr7FF/fn/APAh/wDGgBfsUX9+f/wIk/xo+xRf35//AAIk/wAaAIrRFjkukG4gTfxZY/cXuasDHp2H8JoAXj0/8dNHHp6fwmgCpqR/0CXaBnHGQR3FWN11/wA8Yf8Av6f/AImgA3XX/PGH/v6f/iar3drNeKqyRINp6pOQf/QfYf5zQBSbQUddpi/ukf6SeCO/3a00+0xxqghiIUADMxJ/9BoAduuv+eMP/f0//E1WvGnIt/MijVfPTJVyx6+m0UANMtumoSCa4WIhI2GZducFvzFVoreyilVxrcx2tna1yuD1JyPfPNAD3isTKzpqzR7mZiEuFAJOf8f0HpV5b6yVQv2yA4GMmUE/zoAX+0LL/n7t/wDv4P8AGj+0LL/n7t/+/g/xoAP7Qsv+fu3/AO/g/wAajs5I5ZLp43V1M3DK2R9xaALQ+6PoO9NkcRxs55CgnrQAwNOVB8uPoP8Alqf8KRmn2n93H0P/AC1P+FADZ2uvJk8uOPzMHbiQk5xx1FVofNee6EsbEmNQAjYOPnxnnr24zQBmpp7RlZV0u6yBkr9pALcHt068en5CrF5p4a5SZbCWVig+7ME2kYGCMegH5UAWtGRoFmtvs00Ko28GRtwOcjAIHPAH581qUAFFAGXm6F3ceSBt89e+M8LnOe2PSrm6f/nnH0H/AC1P+FACGcxyKswjRWBw3md/TkD/ACKX7Tb/APPeLt/y0FAFXUbiJrCUJLEzEcDzOpyKnNxcL95LUc45uD/8TQAz7bJx/wAefJwP9J6n0+7Sfb2wTmywvU/aun/jtAC/bpMgf6HkkKB9p7noPu0rXsqbtwtF29c3J44z/doAVbqZ2CqtqzHoBcHP/oNRXbXJ+ziSKJV89MlZST1/3RQA7cy38m2VI8iIHeM7hluByOazk1G++TzNQ0wMzYCqSfXPQnsPw96AJ4ry7lnjVbyxkBkBIibPyd8/k3Prj0OSW6umnfy7+zjjD4xJwRtwHHQZ5zz70AaVp9p8j/Swglz/AAdP89anoAKq2/8Ar7rr/rv/AGRaAJx90degqO5P+izdfuN/KgB6fcXr0FDfdPXoaAF79+v9KpCZ49QmC28suYo+UK8ct6kUATG8kBANlcAnp80fP/j1H2uXOPsNx+af/FUAH2uTOPsVxk+8f/xVH2yTGfsVxg990f8A8VQAv2qX/nxuPzT/AOKo+1S/8+Nx+af/ABVAEdk5d7lmjeMmb7rYyPkX0Jq0Px6CgBfzoz9e1AFXUf8Ajwl69P6iq19Cxh2ra2km5mJVmwG+YH8z39xQBnmCcyg/Y9Nz5jMxY8kHP+11P49/rRHbMkESx2GmDKgMFkGAck4HTODg/nQAptXSVdljpyqjh0IlwRhuD74yD+NWYoWnud99b2gLx8MGBLHGOueRhiPofcgAFeCK4tpFmgsdNWUDDMr4PIHf8+P14yb7vePHEbuKKM+fHtEbZ7nr+n50ATN50d28iQLKjog+/gggn1+tVls4kjVF0eHapyAXU4NAD44BFL5selxo/QssgGfr69TTJ4o9peXSIWy2TllOST/jQBc+0XXT7H/5FFH2m6/58/8AyKKAE+1XX/Pn6/8ALUU+2WQGV5VCNJJu2hs4+UD+lAEw+6OnQd6juf8Aj1m6fcbv7UASJ9xfoO9I33T06GgBe/4/0qlKky3EjrCJY5I1XiTaQRu/xoAojSogVb+z33Kcg/aOR/j1PX1pBpKqrKLSYbiMn7SCSRnH5bjQBNbWTWuzy7OQ7B/FcA5425OfaoJNIjdstYycnP8Ax8D1z/T/ADk0AW7OB7EP5Nk3znLFpwf8/wD66s/arrP/AB5+v/LUUAPtlcGV5VCtJJu2hs4+UD+lTD8OgoAX8qO/bt3oAq6j/wAeEv0/qKqX1mZPLxpcU3zyMdsuzGR17ZLdD6UAUhp0gE//ABIowGXAAuuG69fb/wCvU39nEY3aNbM2ACySbVPGOF9OSPwoAYdPkdvm0WP7pIY3WdpxnH4lR+eanntbi5tj5uno8kbgxI0vUbhnJB64Gc+vGOOQCp/ZbE5Ph+DgEgG66tzj+Q/P2rWuGkaC3M0YjczplQ2cc+tAFoE56HoPSnZPoe/pQAZOeh6+1Q3ZP2c8H7y+n94UATZOeh6+3pSZOOh7elAETzxxYEjqhbdgMwGeaPtlvn/XJ1/vigBBeW+B++ToP4xTLi7gNtKBMhJRgBuHpQA9by32L++ToP4xQ15b7T++Tof4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Figura 2: Diagrama de Classes - 1°Sprint

# Kanban e Retrospectiva

Interface gráfica do usuário, Site

Descrição gerada automaticamente

Figura 3: Kanban- 1° semana 1°Sprint

Interface gráfica do usuário, Site

Descrição gerada automaticamente

Figura 4: Kanban 2° semana 1°Sprint

Interface gráfica do usuário, Site

Descrição gerada automaticamente

Figura 5: Kanban - 3° semana 1°Sprint

Interface gráfica do usuário, Site

Descrição gerada automaticamente

Figura 6: Kanban- 4° semana 1°Sprint

Nesse Sprint o foco foi a documentação e planejamento de classes que seriam criadas. A maioria das tarefas conseguiram ser executadas dentro do prazo estipulado, com exceção da criação do banco de dados, que o grupo planeja dar continuidade no próximo sprint.

# Segundo Sprint

O foco do segundo sprint é realizar o back-end do sistema para web, principalmente a tela de login, dar início ao front-end e conectar o sistema ao banco de dados.

# Product Backlog

Não houve modificações no product backlog nesse sprint.

# Sprint Backlog

* + Realizar login do gerente;

# BurnDown Chart

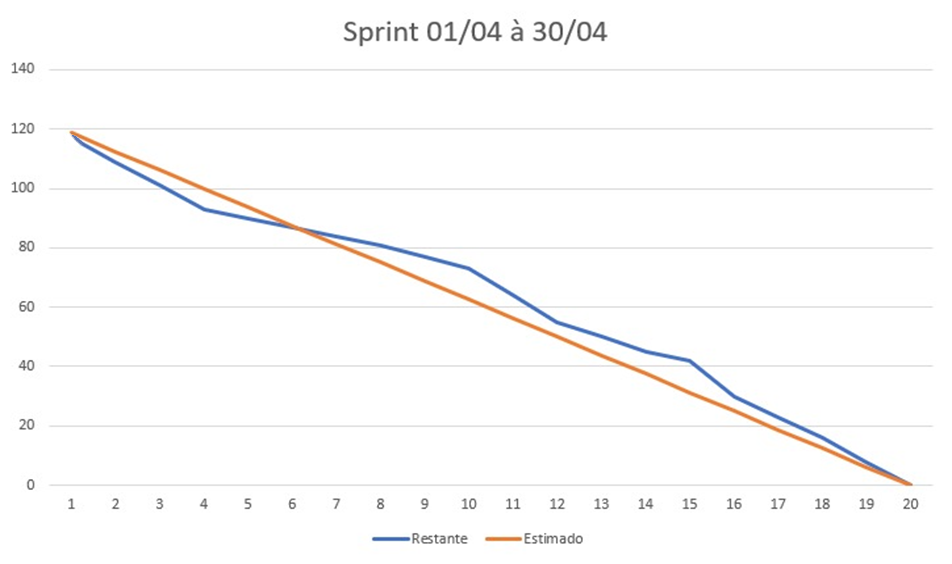


Figura 7: BurnDown - 2°Sprint

# Diagramas

Diagrama

Descrição gerada automaticamente

Figura 8: Diagrama Caso de Uso (Funcionário)

Diagrama

Descrição gerada automaticamente

Figura 9: Diagrama Caso de Uso (Gerente)

Diagrama

Descrição gerada automaticamente

Figura 10: Diagrama Caso de Uso (Login)

# Plano de testes

Tabela

Descrição gerada automaticamente

# Resultados

Conforme mostra a tabela, o Login foi realizado com sucesso no sistema para web.

# Kanban e Retrospectiva

Interface gráfica do usuário, Site

Descrição gerada automaticamente com confiança média

Figura 11: Kanban - 1°semana 2°Sprint

Interface gráfica do usuário, Site

Descrição gerada automaticamente

Figura 12: Kanban-2° semana 2°Sprint

Interface gráfica do usuário, Aplicativo, Site

Descrição gerada automaticamente

Figura 13: Kanban - 3°semana 2°Sprint

Interface gráfica do usuário, Site

Descrição gerada automaticamente

Figura 14: Kanban - 4° semana 2°Sprint

Neste Sprint, grande parte das tarefas planejadas conseguiram ser cumpridas. O aplicativo Android não foi conectado ao banco de dados devido a uma mudança de decisão do grupo em relação a ferramenta utilizada.

# Terceiro Sprint

O foco do terceiro sprint é realizar o front-end e o back-end de cadastro de cliente, produto.

# Product Backlog

Não houve modificações no product backlog nesse sprint.

# Sprint Backlog

* + Realizar cadastro de clientes;
  + Realizar cadastro de produtos;
  + Gerenciamento de funcionários por um superior;

# BurnDown Chart

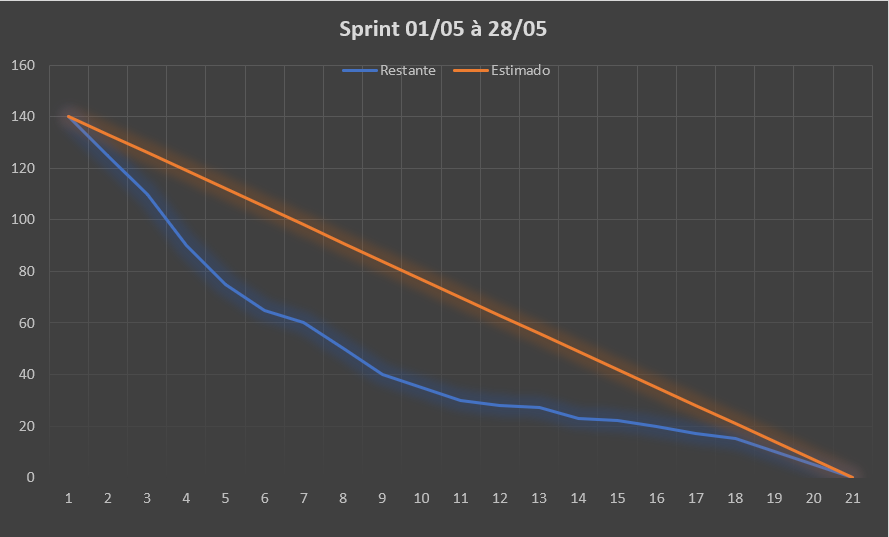


Figura 15: BurnDown - 3°Sprint

# Diagramas

Diagrama

Descrição gerada automaticamente

Figura 16: Fluxograma (Login) - 3°Sprint

Diagrama

Descrição gerada automaticamente com confiança média Uma imagem contendo Gráfico

Descrição gerada automaticamente

Diagrama

Descrição gerada automaticamenteDiagrama

Descrição gerada automaticamente

Diagrama

Descrição gerada automaticamente

# Narrativa do caso de uso

|  |
| --- |
| **NARRATIVA DE CASO DE USO** |
| **Sigla/Nome**: Login  **Objetivo**: Controlar o acesso ao sistema.  **Frequência estimada**: Todas as vezes que for necessário acessar o sistema.  **Ator Principal**: Funcionário |
| **CENÁRIO PRINCIPAL** |
| 1. O caso de uso inicia quando o funcionário (ou gerente) acessa o sistema e seleciona a opção Login. 2. O sistema apresenta uma tela contendo e-mail e senha 3. O funcionário insere o e-mail e a sua senha. 4. O sistema valida os dados e abre a tela principal do sistema. |
| **CENÁRIO ALTERNATIVO** |
|  |
| **CENÁRIOS DE EXCEÇÃO** |
| 1. **Falha na validação de e-mail e/ou senha**   4.1.1 Caso os dados estejam incorretos, o sistema reporta e volta ao passo 2. Não existe nenhum limite quando ao número de tentativas de acesso. |
| **PRÉ-CONDIÇÕES** |
| 1. O funcionário deve estar cadastrado. |
| **PÓS-CONDIÇÕES** |
| 1. O funcionário conseguirá acessar o seu perfil. |

|  |
| --- |
| **NARRATIVA DE CASO DE USO** |
| **Sigla/Nome**: Sistema do Funcionário - Cadastro  **Objetivo**: Cadastrar clientes.  **Frequência estimada**: Uma vez, quantas vezes for necessário cadastrar.  **Ator Principal**: Funcionário |
| **CENÁRIO PRINCIPAL** |
| 1. O caso de uso inicia quando o funcionário acessa o sistema e seleciona a opção Cadastrar Cliente. 2. O sistema apresenta uma tela contendo informações necessárias para o cadastro (nome, sobrenome, telefone, endereço) 3. O funcionário insere os valores nos determinados campos. 4. O sistema valida os dados e abre a tela principal do sistema. |
| **CENÁRIO ALTERNATIVO** |
|  |
| **CENÁRIOS DE EXCEÇÃO** |
| 1. **Falha na validação de e-mail e/ou senha**   4.1.1 Caso os dados estejam incorretos, o sistema reporta e volta ao passo 2. Não existe nenhum limite quando ao número de tentativas de acesso. |
| **PRÉ-CONDIÇÕES** |
| 1. O cliente não pode estar cadastrado. |
| **PÓS-CONDIÇÕES** |
| 1. O funcionário conseguirá manter contato e atender o cliente. |

|  |
| --- |
| **NARRATIVA DE CASO DE USO** |
| **Sigla/Nome**: Sistema do Gerente - Cadastro  **Objetivo**: Cadastro de um novo funcionário.  **Frequência estimada**: Uma vez, quantas vezes que for necessário cadastrar.  **Ator Principal**: Gerente |
| **CENÁRIO PRINCIPAL** |
| 1. O caso de uso inicia quando o gerente acessa o sistema e seleciona a opção Cadastrar Funcionário. 2. O sistema apresenta uma tela contendo informações necessárias para o cadastro (nome, sobrenome, telefone, endereço, e-mail) 3. O gerente insere os valores nos determinados campos. 4. O sistema valida os dados e abre a tela principal do sistema. |
| **CENÁRIO ALTERNATIVO** |
|  |
| **CENÁRIOS DE EXCEÇÃO** |
| 1. **Falha na validação de e-mail e/ou senha**   4.1.1 Caso os dados estejam incorretos, o sistema reporta e volta ao passo 2. Não existe nenhum limite quando ao número de tentativas de acesso. |
| **PRÉ-CONDIÇÕES** |
| 1. O funcionário não pode estar cadastrado. |
| **PÓS-CONDIÇÕES** |
| 1. As informações do funcionário ficarão disponíveis (para o gerente). 2. O funcionário conseguirá acessar o sistema. |

# Plano de testes

Tabela

Descrição gerada automaticamente

Interface gráfica do usuário, Aplicativo

Descrição gerada automaticamente

Tabela

Descrição gerada automaticamente

# Resultados

Conforme mostram as tabelas, o cadastro de produto e cliente foram realizados com sucesso, assim como o login de funcionário e do gerente.

# Kanban e Retrospectiva

Interface gráfica do usuário, Site

Descrição gerada automaticamente

Figura 17: Kanban - 1°semana 3°Sprint

Interface gráfica do usuário, Aplicativo, Site

Descrição gerada automaticamente

Figura 18: Kanban - 2°semana 3°Sprint

Interface gráfica do usuário, Aplicativo, Site

Descrição gerada automaticamente

Figura 19: Kanban - 3°semana 3°Sprint

Interface gráfica do usuário, Aplicativo, Site

Descrição gerada automaticamente

Figura 20: Kanban - 4°semana 3°Sprint

O grupo conseguiu cumprir todas as tarefas planejadas para esse sprint. Os fluxogramas realizados só foram decididos posteriormente, por isso teve início na segunda semana do sprint.

# Quarto Sprint

O foco do primeiro sprint é adiantar a documentação que foi exigida, elaborar o banco de dados e criar o front-end de algumas telas do aplicativo Android.

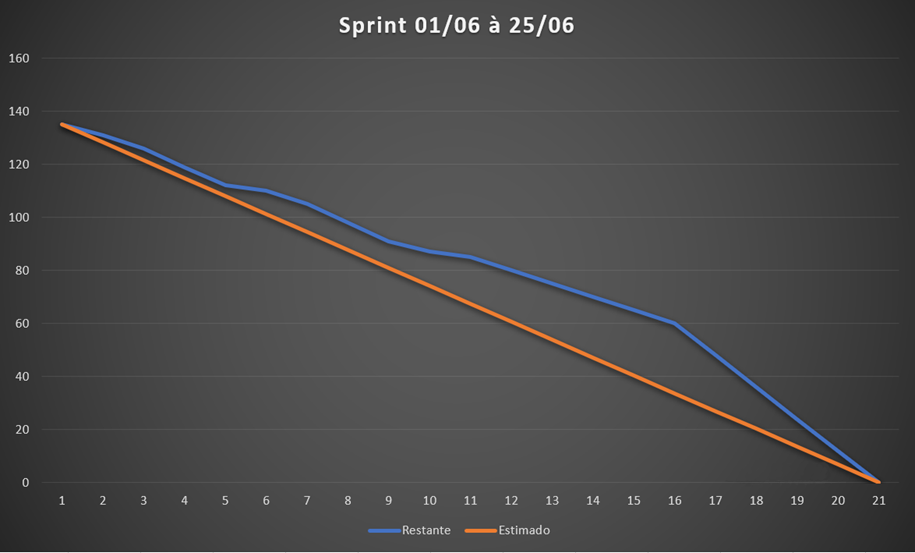
# Product Backlog

Não houve modificações no product backlog nesse sprint.

# Sprint Backlog

* Realizar busca e mostrar informações realizadas aos clientes;
* Registrar um histórico de cada ação realizada pelos funcionários;
* Gerar relatório de venda diária;

# BurnDown Chart



# Diagramas

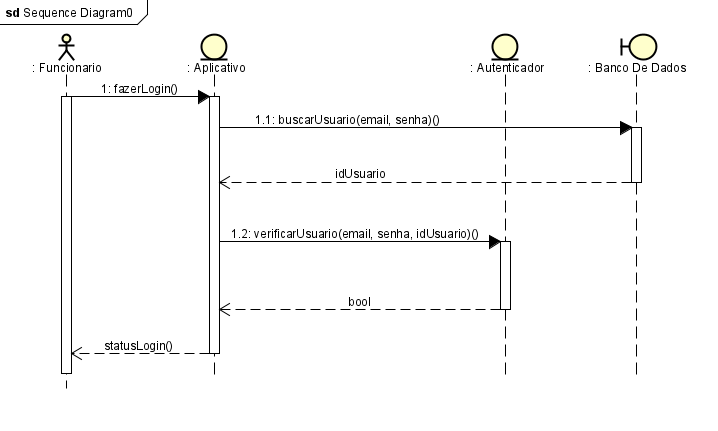


Figura 21: Diagrama de sequência (Login)

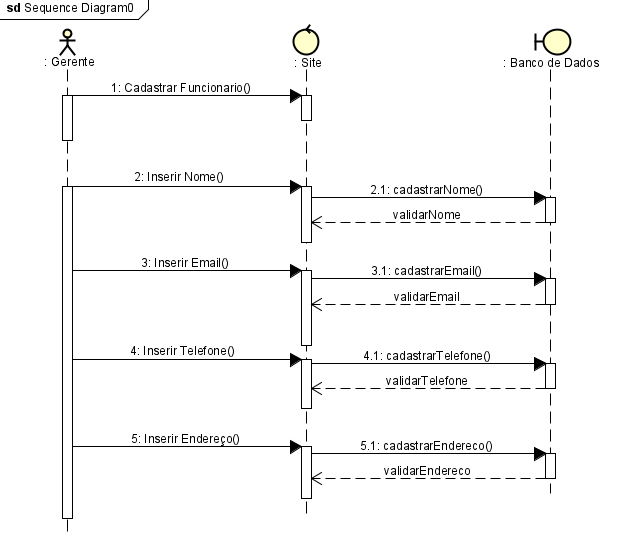
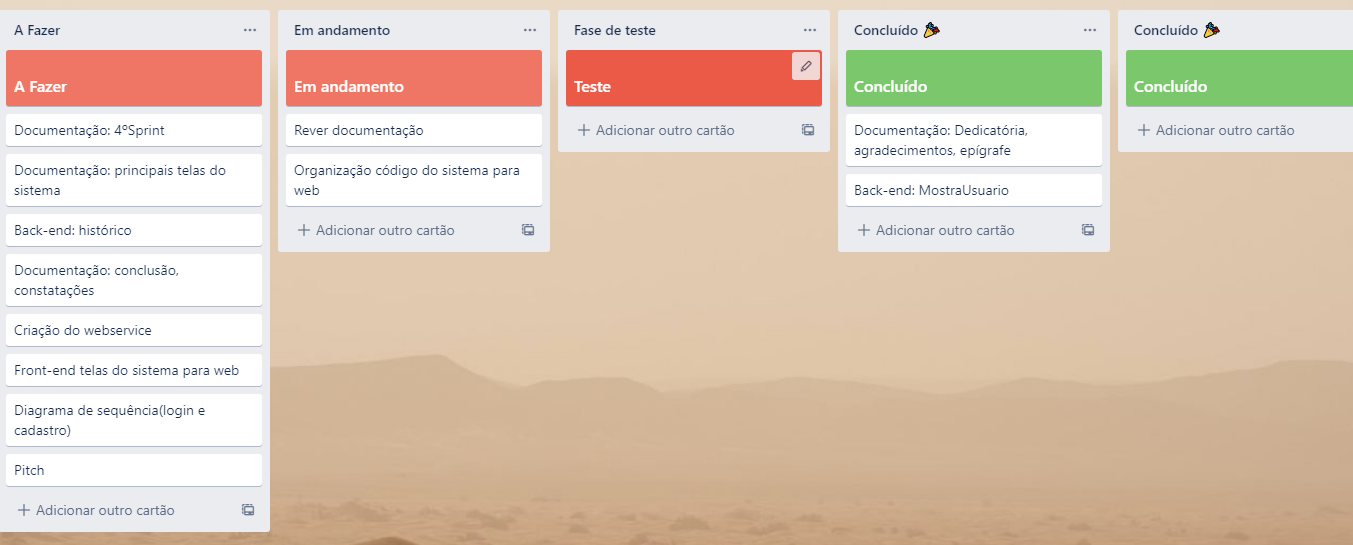
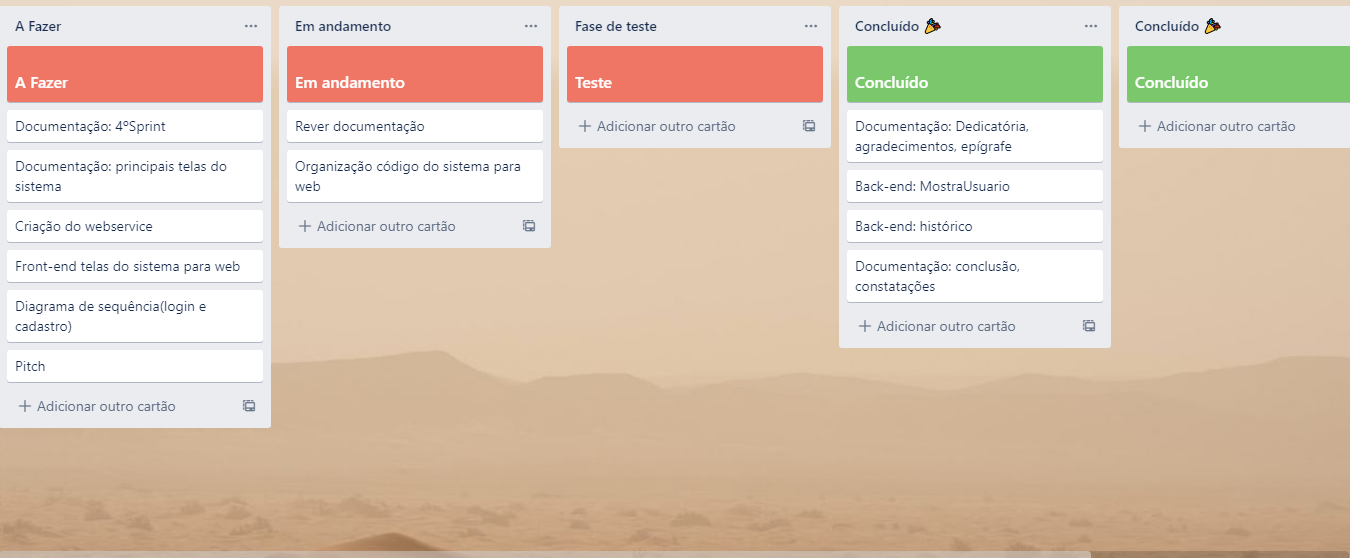
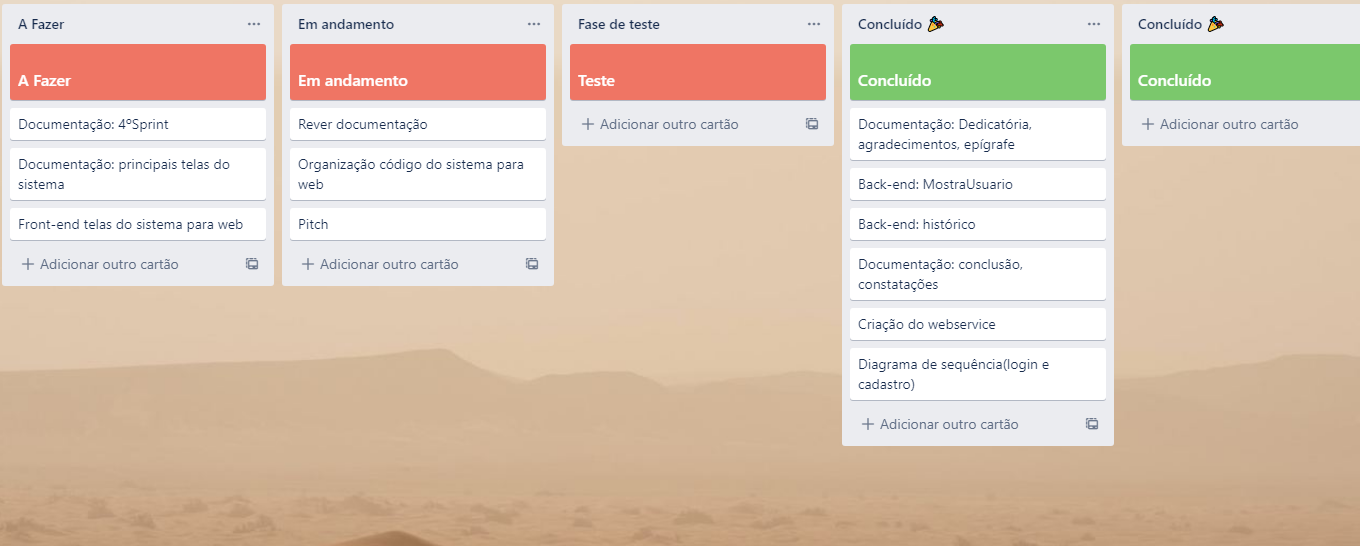


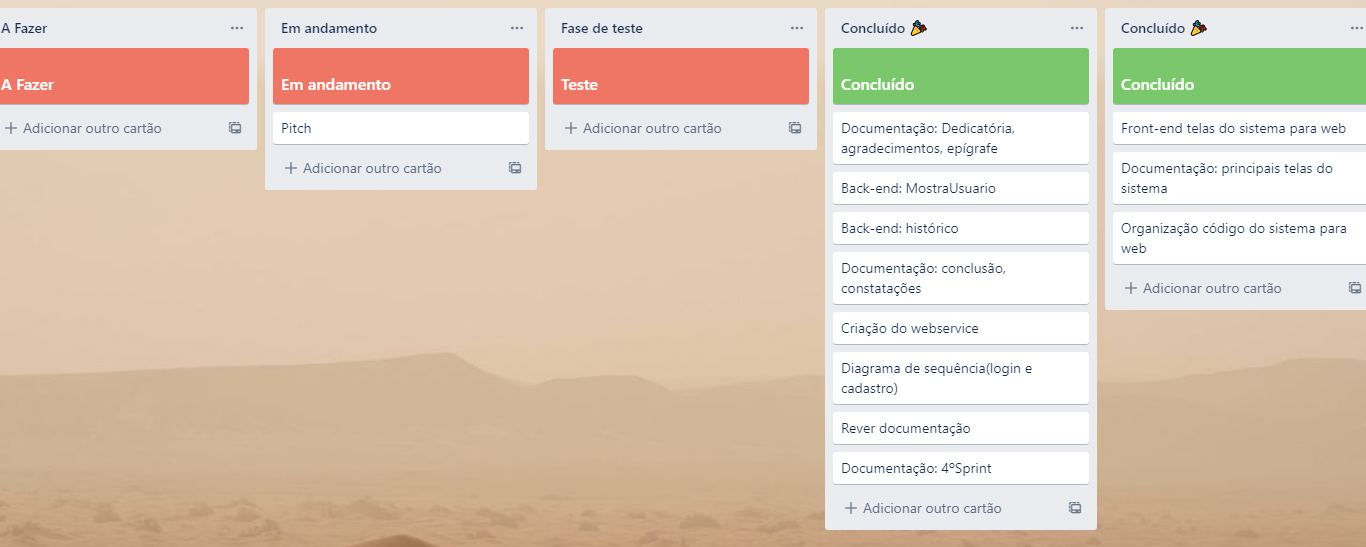
Figura 22: Diagrama de Sequência (Cadastro)

# Kanban e Retrospectiva







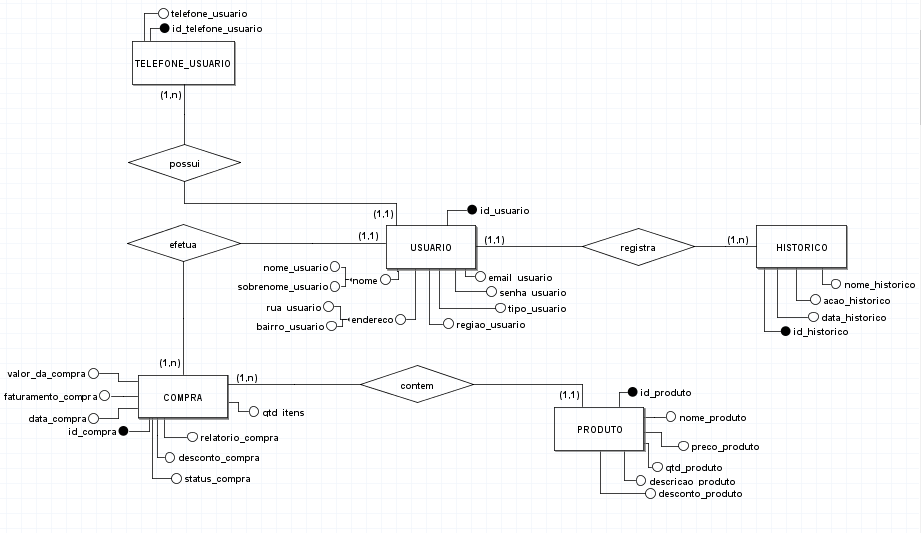


Os objetivos do último Sprint foram cumpridos e o projeto foi entregue dentro do prazo.

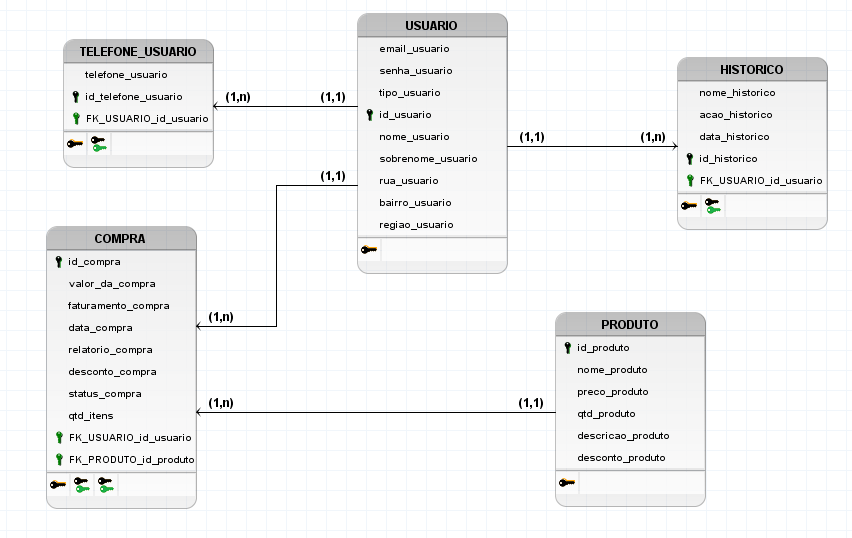
# Modelo de Dados

Esta parte do planejamento traz informações necessárias para a construção de um banco de dados para o Sistema de Gerenciamento de Acessos.

# Diagrama de Entidade e Relacionamento



# Modelo lógico do banco de dados



# Dicionário de dados

Nessa etapa é elaborada uma organização básica dos dados do banco. Aqui são informadas as entidades, com seus respectivos campos, tipos e descrições. O banco foi desenvolvido no servidor de banco de dados SQL Server.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| USUARIO | | | | |
| Atributo | Tipo de Dados | Comprimento | Restrições | Descrição |
| id\_usuario | int | 4 bytes | PK, not null | Código de identificação do usuário |
| nome\_usuario | caracter | 30 bytes | not null | Nome do usuário |
| endereco\_usuario | caracter | 40 bytes | not null | Endereço do Usuário |
| email\_usuario | caracter | 30 bytes | not null | E-mail do usuário |
| senha\_usuario | caracter | 16 bytes | not null | Senha do usuário |
| tipo\_usuario | caracter | 11 bytes | not null | Tipo do usuário |
| regiao\_usuario | caracter | 20 bytes | not null | Região do usuário |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COMPRA** | | | | |
| Atributo | Tipo de Dados | Comprimento | Restrições | Descrição |
| id\_compra | int | 4 bytes | PK, not null | Código de identificação da compra |
| valor\_compra | decimal | 10 bytes | not null | Valor da compra |
| data\_compra | date | 5 bytes | not null | Data da compra |
| status\_compra | caracter | 20 bytes | not null | Status da compra |
| relatório\_compra | caracter | 20 bytes | not null | Relatório da compra |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **HISTORICO** | | | | |
| Atributo | Tipo de Dados | Comprimento | Restrições | Descrição |
| id\_historico | int | 4 bytes | PK, not null | Código de identificação do histórico |
| data\_historico | date | 5 bytes | not null | Data do histórico |
| acao\_historico | caracter | 50 bytes | not null | Ação do histórico |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PRODUTO** | | | | |
| Atributo | Tipo de Dados | Comprimento | Restrições | Descrição |
| id\_produto | int | 4 bytes | PK, not null | Código de identificação do produto |
| nome\_produto | caracter | 20 bytes | not null | Nome do produto |
| preco\_produto | decimal | 10 bytes | not null | Preço do produto |
| qtd\_produto | int | 8 bytes | not null | Quantidade do produto |
| desconto\_produto | decimal | 15 bytes | not null | Desconto do produto |
| descrição\_produto | caracter | 60 bytes | not null | Descrição do produto |

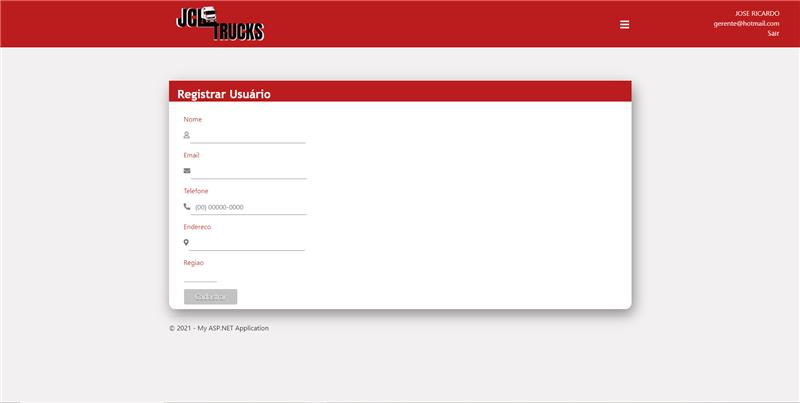
# PRINCIPAIS TELAS DO SISTEMA



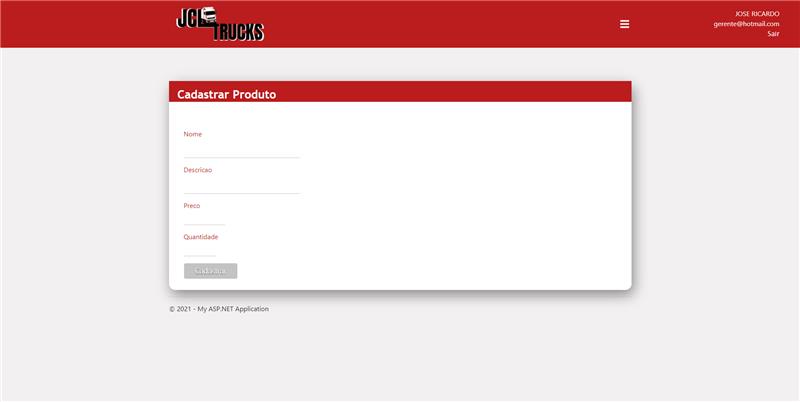
*Index*



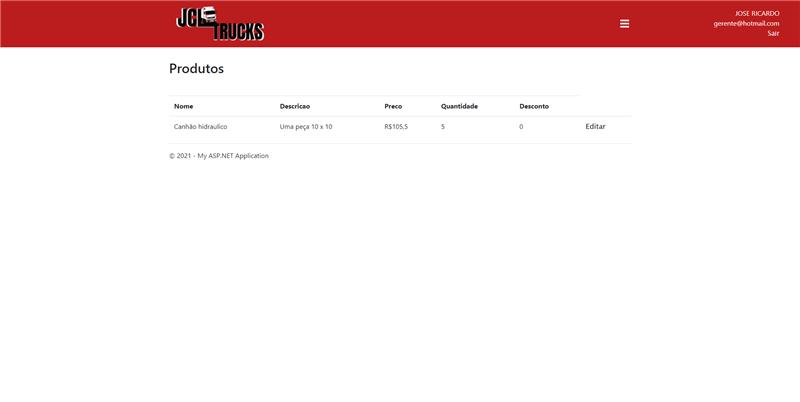
*Login*



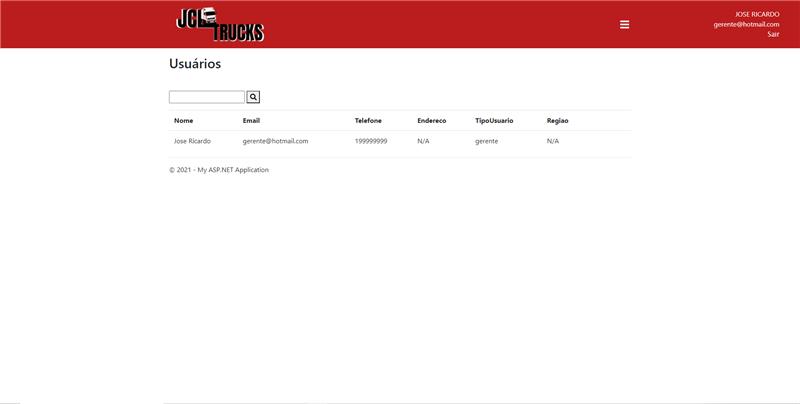
*Registrar Usuário*



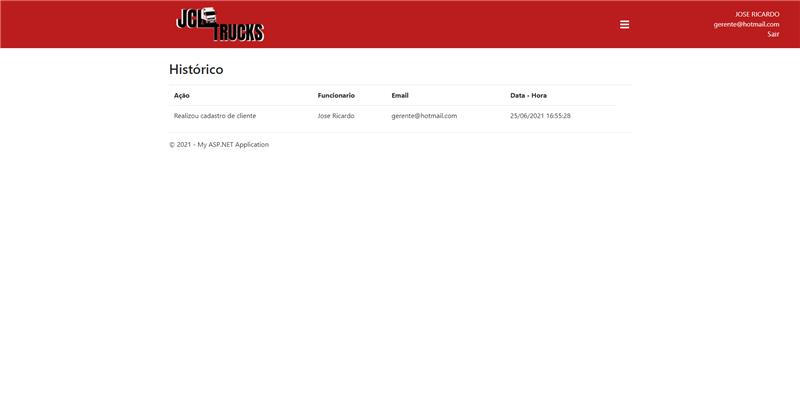
*Cadastra Produto*



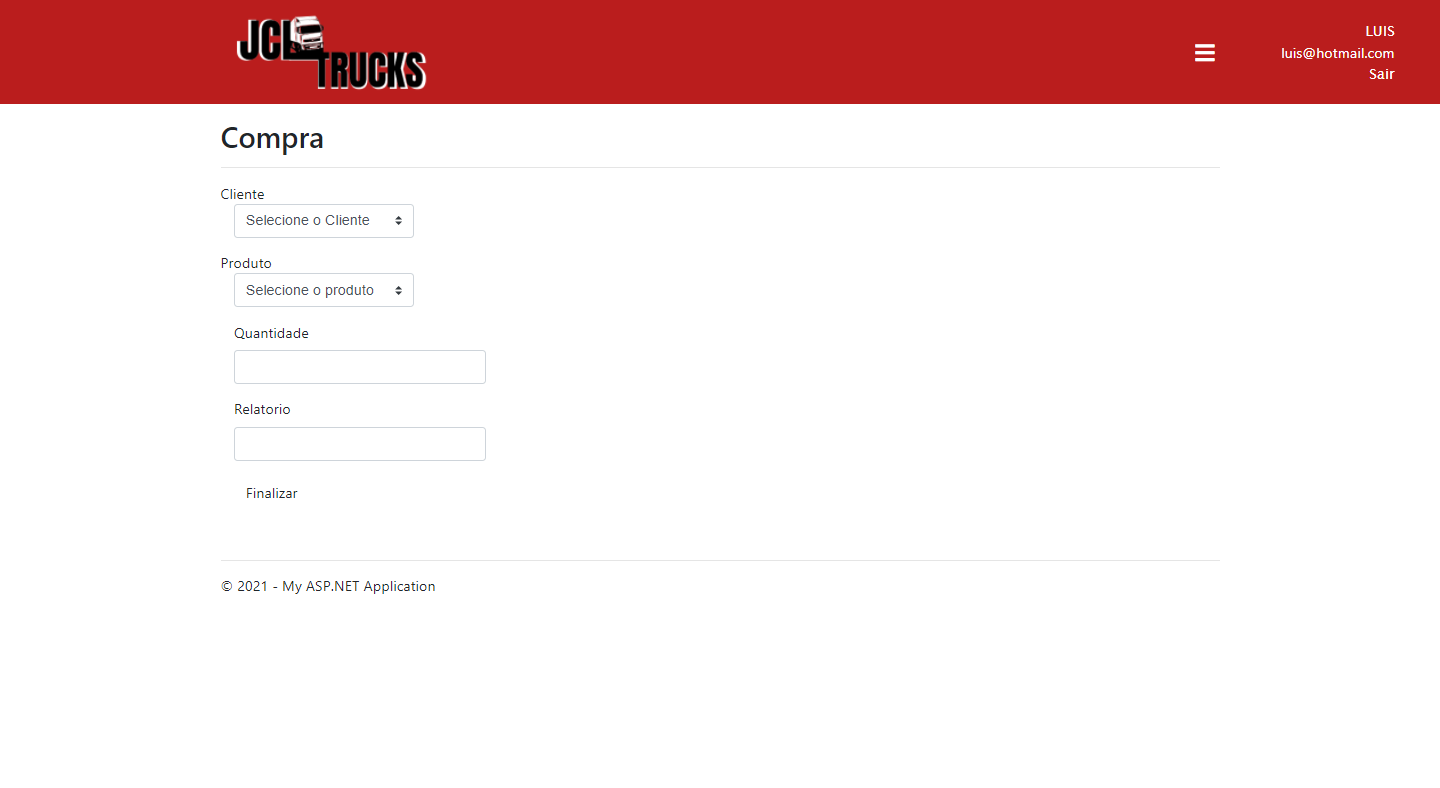
Produtos



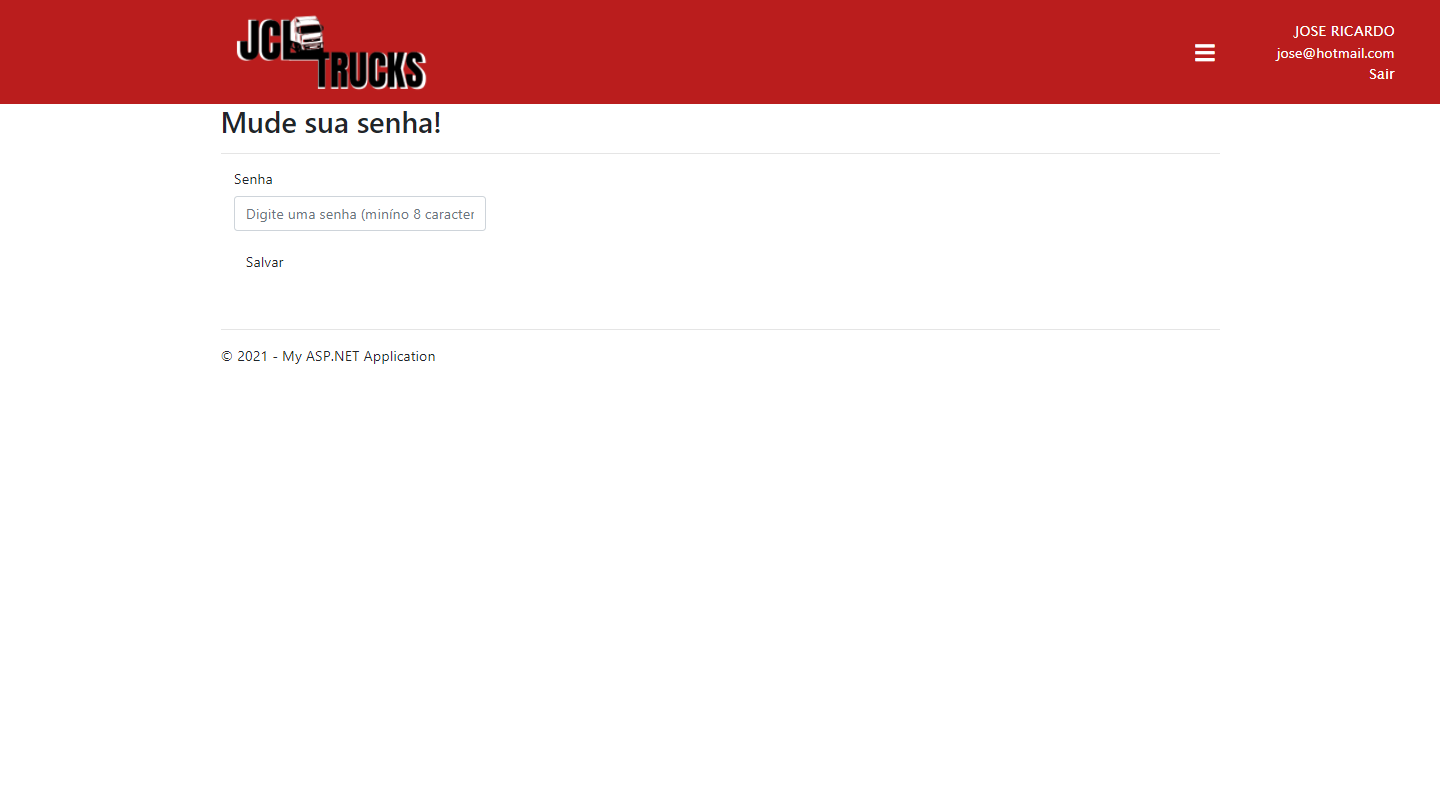
*Usuários*



*Histórico*



*Efetuar Compra*



*Mudar Senha.*

# CONCLUSÃO

Foi obtido, após a finalização do Trabalho de Conclusão de Curso, uma plataforma para funcionários que permite facilidade e rapidez no controle de clientes. É possível verificar todas as informações necessárias, como por exemplo, nome, endereço e telefone, de forma prática, além de apresentar histórico de ações realizadas pelos funcionários e fazer consulta de usuários.

O único objetivo não concluído entre os previstos é a versão da plataforma para Android, pois optamos pelo foco em desenvolver um projeto com a maior excelência possível para Web. No entanto, todos os outros quesitos determinados desde o início foram concluídos e estão inseridos no projeto final de forma com que facilite ao máximo o processo de checagem e cadastro dos clientes, pois nos dias atuais, o tempo é algo valioso e curto. Sendo assim, a praticidade ajuda na economia de tempo gasto.

# Constatações

Por todo o período de realização, foi possível adquirir o entendimento das dificuldades presentes em um armazenamento de informações e na forma de conferir as mesmas. Com isso, fomos aperfeiçoando ao longo do trabalho alguns pontos de dificuldade para ajudar aquele que estiver buscando ou cadastrando os dados dos clientes, a se organizar conforme o necessário.

Tendo em mãos um computador, o funcionário poderá acessar de forma simples o site, logar em sua conta e fazer todo o seu trabalho sem nenhuma complicação ou dificuldade. Isso se deve graças ao pensamento, ao cuidado e a preocupação com o usuário que tivemos ao desenvolver a plataforma.

# Sugestões de possíveis aperfeiçoamentos técnicos

Assim como todos os sistemas existente, o JCL Trucks poderá e certamente virá a ter alguns aperfeiçoamentos técnicos. A princípio já se pensa em desenvolver uma versão para Android da plataforma e adicionar meios de feedback, tanto do cliente em relação ao atendimento quanto do funcionário tratando do funcionamento do site.

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