 **INSTITUTO POLITÉCNICO DE BEJA **

**ESCOLA SUPERIOR DE TECNOLOGIA E GESTÃO**

**LICENCIATURA EM ENGENHARIA INFORMÁTICA**

**Engenharia de Software**

**Trabalho Prático**

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04/06/19

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# Introdução

Este trabalho inserir-se no método de avaliação da unidade curricular de Engenharia de Software, do curso de Engª Informática. Tem como objetivo desenvolver um sistema de encomenda de comida online. O sistema terá também de ser capaz de coligir a informação necessária para dar resposta às exigências do serviço.

Este relatório é composto pela descrição de cada fase do ciclo de desenvolvimento de projeto e está estruturado da seguinte forma:

Na primeira parte do relatório é feita uma caraterização da empresa, apresentação do problema e a e analise dos requisitos funcionais e não funcionais de modo a dar resposta ao pretendido.

Na segunda parte do relatório, começa-se pela especificação e estruturação do caso de uso e a fase de desenho que inclui a:

* Elaboração dos diagramas de sequência.
* Elaboração do diagrama de classes.

Por último, a terceira aborda-se as ferramentas de desenvolvimento e os ásperos relacionado com a conclusão, referencias bibliográfica que completam o trabalho.

# Fase de Análise

Nesta fase, serão descritas as fases de análise, recolha de informação, bem como a implementação dos principais casos de uso, as tecnologias utilizadas, os padrões de desenho e as várias ferramentas de desenvolvimento e metodologias utilizadas de modo a garantir uma resposta clara aos requisitos.

## 2.1 Recolha de informação

Para recolha de informação, foi necessário efetuar entrevistas com os principais utilizadores do sistema, num ambiente formal de forma a dar resposta e clarificar os principais requisitos. Para este processo, foram feitas muitas perguntas e pesquisas.

Poder chegar em acordo com o cliente de modo garantir uma a qualidade e integridade do que se deseja. Pode-se verificar no documento Entrevista anexado.

## Sistemas semelhantes

Foi feita uma pesquisa online com vista em encontrar sistemas semelhantes ao que se pretende desenvolver, excluindo os mencionados no enunciado do trabalho. Foram encontrados, entre outros, o *Glovo* [1] e o *Takeaway* [2].

***Glovo***

*Glovo* é uma empresa espanhola fundada em 2015, que atua na área da entrega de diversos produtos. O seu modo de operação prende-se com a compra, recolha e entrega de produtos encomendados através da sua aplicação móvel ou website. A sua categoria mais popular é a restauração e é daí que vem a sua semelhança com o sistema que se pretende desenvolver. As suas principais funcionalidades são as seguintes:

* Permite aos clientes saberem quais sãos as lojas/restaurantes aderentes numa determinada zona;
* Permite aos clientes saber os custos da encomenda (tanto dos produtos em si, com o da entrega) e o tempo estimado, antes da efetuação da mesma.

***Takeaway***

A Takeaway é uma empresa holandesa especializada em encomenda online de comida com entrega ao domicílio. Funciona com intermediário entre os clientes e os restaurantes possibilitando a encomenda de itens do menu dos restaurantes, sem sair de casa. As principais funcionalidades são as seguintes:

* Permite ao cliente visualizar os restaurantes aderentes numa dada zona, através do código postal.
* Fornece ao cliente um alto poder de customização dos pratos presentes no menu de alguns restaurantes.
* Permite ao cliente fazer sugestões de restaurantes não aderentes.

## Funcionalidades e Requisitos do sistema

### 2.3.1 Requisitos Funcionais

Os requisitos funcionais descrevem as funções e tarefas que se espera que o sistema realize e incluem tudo o que os utilizadores e analistas de sistemas esperam que o sistema faça. Os requisitos funcionais especificados e discutidos com o *Stakeholder*, são os seguintes:

* Fornecer um mecanismo que facilite o processo de registar e atualizar os dados dos clientes, de acordo com critérios de proteção de dados estabelecidos;
* Disponibilizar um método para fazer encomendas que, após a confirmação da encomenda, envie automaticamente por email a fatura com os dados atual da encomenda no ato de compra.
* Disponibilizar um mecanismo para notificar os entregadores, dos serviços e o local onde devem ir buscar a comida e local da entrega;
* Possibilitar um sistema que mantém informado os funcionários e os clientes do tempo previsto da entrega do seu pedido;
* Enviar as faturas e recibos aos clientes, parceiros de acordo com os modelos em vigor;

### Requisitos Não Funcionais

Os requisitos não funcionais especificados para este sistema são os seguintes:

* O método de notificação dos entregadores/Estafeta deverá ser feito através de uma das operadoras móvel ou Servidor web que disponibilizam esse serviço;
* O email com apresentação da fatura ao cliente deverá obedecer às regras em vigor da AT[[1]](#footnote-2);
* Apresentação da página web e o layout deverá obedecer às regras de usabilidade e deverá ser compatível com todos os browsers;
* Apenas os colaboradores da empresa devidamente autorizados poderão aceder aos dados do sistema, e, apenas os colaboradores do Apoio Técnico poderão criar login;
* É desejável que haja formação para os funcionários;

# Fase de Desenho

Existem várias ferramentas e métodos de desenvolvimento que permitem agilizar, planear e estruturar as etapas do ciclo de desenvolvimento do software. Uma dessas ferramentas é a linguagem gráfica UML (Unified Modeling Language) que permite especificar, visualizar, construir e documentar todos os artefactos do sistema de software [3]. Essa ferramenta poio-nos no desenvolvimento e dar resposta as muitas das tarefas abaixo apresentado.

## Casos de Uso

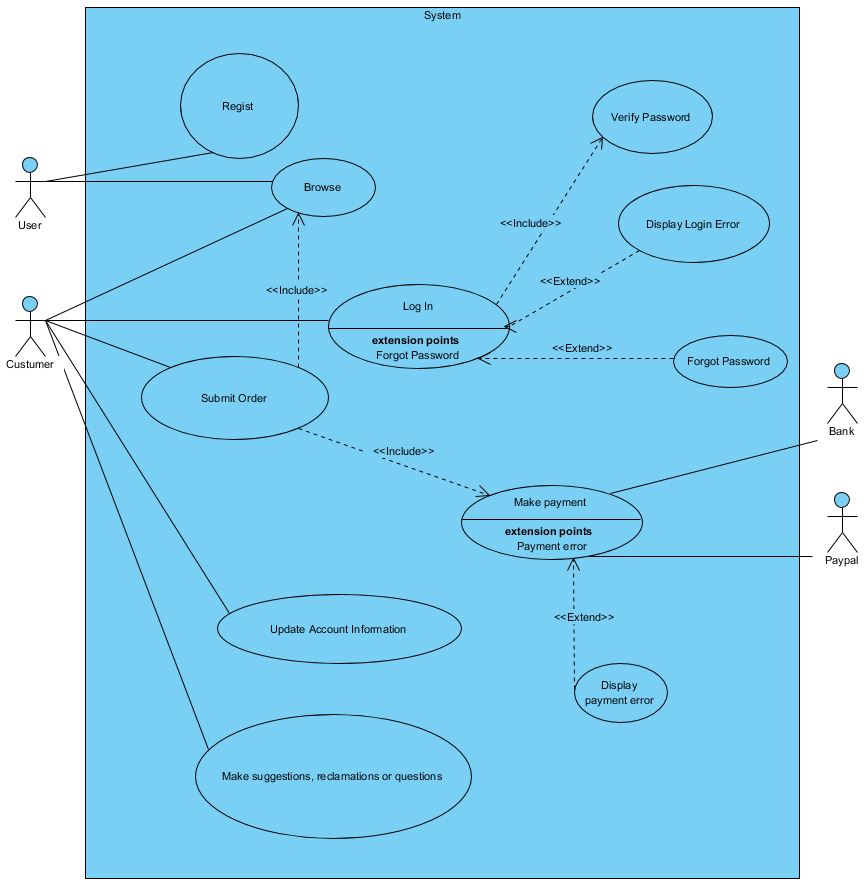
O diagramas de caso de uso permitem especificar requisitos, facilitar a fase de desenho do processo de desenvolvimento e fornecer formas de validação de requisitos [4]. Estes envolvem um tipo de interação entre atores (tipos de utilizadores do sistema) e o sistema.

Figura 1 - Diagrama de casos de uso

## Regist

Discrição do cenário principal para caso de uso *Regist*, um caso de uso importante no processo de encomenda e na comunicação do cliente com a plataforma.



Tabela 1 - Cenário principal para caso de uso *Regist*

### Cenário alternativo do caso de uso Regist

Um possível caso alternativo do caso de uso *Regist,* se o utilizador não tenha validado o registro ou aceite os termos e política de proteção de dados.



Tabela 2 - Cenário alternativo 1 - caso de uso *Regist*

## Browse

Este é o caso de uso o em que o utilizador pesquisa restaurantes e o seu menu, mediante a localidade.



Tabela 3 - Cenário principal do caso de uso *Browse*

### Cenário alternativo Browse

Apresentação de um dos possíveis cenários alternativos do caso de uso *Browse*, que facilita no processo de pesquisa de informação.



Tabela 4 - Cenário alternativo de caso de uso *Browse*

## Login

Apresentação do caso de uso login, um processo importante no ato de validação das credencias de acesso ao sistema, que numa validação bem-sucedida permite ao cliente efetuar encomendas no sistema.



Tabela 5 - Cenário principal do caso de uso *Login*

### Cenário alternativo Login

Apresentação de um dos possíveis cenários alternativos login, ou seja, um processo não bem-sucedida no processo de login.



Tabela 6 - Cenário alternativo do caso de uso *Login*

## 3.1.4 Submit Order

A presentação do cenário principal *Submit Order* um processo para submeter a encomenda na plataforma.



Tabela 7 - Cenário principal caso de uso *Submit order*

### Cenário alternativo do caso de uso Submit Order

Cenário alternativo do caso de uso *submit Order* que se existir uma falha no ato de pagamento como alternativa o utilizador seleciona pagamento em dinheiro no ato de entrega ou Paypal.



Tabela 8 - Cenário alternativo *Submit Order*

## Update Account Information

Cenário principal do processo de atualização de dados da conta de utilizador, na plataforma.



Tabela 9 - Cenário principal *Update Account Information*

### Cenário alternativo Update Account Information

Apresentação do cenário alternativo do caso de uso update account informatio, uma possivel situação não bem sucedida no ato de atualização dos dados.

Tabela 10 - Cenário alternativo *Update Account Information*



## Atores

Nos casos de uso o ator representa o papel que alguém ou alguma coisa desempenha no sistema. Este tanto pode utilizar o sistema como ser utilizado pelo sistema para desempenhar determinadas tarefas.

### User

E o individuo que usa o site sem ter feito o login ou registo. Apenas pode efetuar pesquisa na página, verificar lojas disponíveis e produtos associados.

### Costumer

Este ator efetua a ação de criar conta, atualizar os seus dados, consultar os produtos/comida em vendas e verificar o seu histórico de compra, e pode efetuar encomendas.

### Bank

Este ator disponibiliza a validação dos pagamentos emitidos pelo cliente para nossa entidade, um ator indispensável na validação do processo da encomenda.

### Paypal

A semelhança com o ator Banco, esse ator disponibiliza a validação do processo de débito ou crédito ao cliente.

## Diagrama de Classe

![Uma imagem com texto, mapa, captura de ecrã

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEx1w61zIEZlcm5hbmRlcwAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNzYAAJKSAAIAAAADNzYAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura 2 - Diagrama de Classe

## Diagrama de Sequência

Na Figura 3 - Diagrama de sequência *Log In*mostra-se o diagrama de sequência realizado no *Visual Paradigm* que ilustra caso de uso *Log In*.

![Uma imagem com captura de ecrã

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEx1w61zIEZlcm5hbmRlcwAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMjQAAJKSAAIAAAADMjQAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura 3 - Diagrama de sequência *Log In*

# Ferramentas de desenvolvimento

Nesta sessão será abordada, algumas das ferramentas que auxiliaram na fase de desenvolvimentos deste projeto. Destas ferramentas destacam-se as seguintes:

## Trello

É uma aplicação usado para gerir projetos, originalmente feita pela Fog Creek Software [5]em 2011. Devido a sua versatilidade para metodologias ágeis, usou-se esta plataforma para um planeamento das tarefas e organização no processo de desenvolvimento [6].

Uma imagem com captura de ecrã

Descrição gerada automaticamente

Figura 4 – *Trello*

## Github

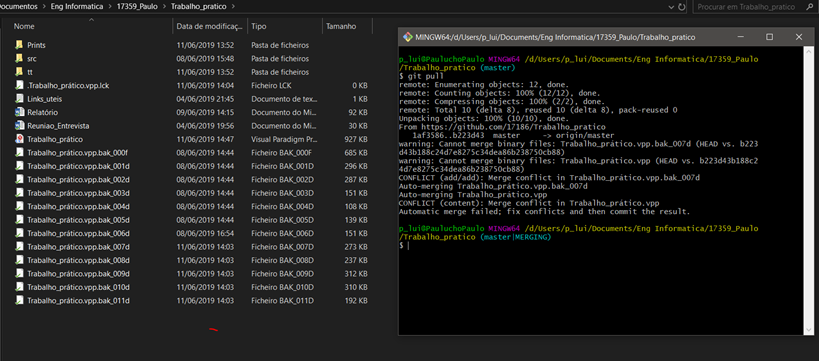
*GitHub* é uma plataforma que aloja código-fonte com controle de versão usando o *Git*. Está plataforma ajudou na sincronização e controlo de versões dos documentos do projeto. Pode ser consultado o repositório neste [link](https://github.com/17186/Trabalho_pratico.git)

Figura 5 - *Github*

# Conclusões

Considera-se que o resultado final do trabalho foi positivo na medida em que foram cumpridos os objetivos iniciais. Para além do cumprimento destes objetivos era importante que a implementação dos requisitos apresentados, bem como a elaboração dos diagramas (diagramas de sequência do UML, diagrama de classe e diagrama de Caso de Uso) fossem claros de modo que nesta fase do ciclo de desenvolvimento de software se garanta uma base solida e coerente.

No desenvolvimento deste trabalho destaca-se a elaboração dos diagramas de classe e de sequência, que foram os mais complexos, pois a elaboração do mesmo exigia maior rigorosidade e cuidado, para garantir um sistema funcional que responda as necessidades do cliente e simplifique o desenvolvimento do sistema.

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1. Autoridade Tributária e Aduaneira [↑](#footnote-ref-2)