**Universidade do Minho**

Mestrado Integrado em Engenharia Informática

Uma imagem com objeto, relógio

Descrição gerada automaticamente

**TrazAquiApp**

**Grupo 46**

Carlos Preto (A89587) Pedro Veloso (A89557) José Pereira (A89596)

![Uma imagem com pessoa, interior, vestuário, sorriso

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SxqRXhpZgAATU0AKgAAAAgABwALAAIAAAAmAAAIbgESAAMAAAABAAEAAAExAAIAAAAmAAAIlAEyAAIAAAAUAAAIuodpAAQAAAABAAAIzoglAAQAAAABAAARJuocAAcAAAgMAAAAYgAAIUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE4OjA5OjExIDEyOjE3OjE1AAAEkAMAAgAAABQAABEQkpEAAgAAAAQxMTQAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkEAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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imagem com pessoa, homem, interior, propriedade

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SuKRXhpZgAATU0AKgAAAAgABwALAAIAAAAmAAAIbgESAAMAAAABAAEAAAExAAIAAAAmAAAIlAEyAAIAAAAUAAAIuodpAAQAAAABAAAIzoglAAQAAAABAAARJuocAAcAAAgMAAAAYgAAIUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE4OjA5OjExIDExOjQ4OjI0AAAEkAMAAgAAABQAABEQkpEAAgAAAAQ5MDYAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkEAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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imagem com pessoa, interior, sorriso, propriedade

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SyERXhpZgAATU0AKgAAAAgABwALAAIAAAAmAAAIbgESAAMAAAABAAEAAAExAAIAAAAmAAAIlAEyAAIAAAAUAAAIuodpAAQAAAABAAAIzoglAAQAAAABAAARJuocAAcAAAgMAAAAYgAAIUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE4OjA5OjEwIDEzOjQzOjIzAAAEkAMAAgAAABQAABEQkpEAAgAAAAQ2ODUAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkEAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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# **Introdução**

Como método de avaliação da disciplina de POO, foi pedido que se elaborasse um projeto em linguagem Java que simulasse um serviço de entrega de encomendas em casa. Foi-nos também pedido que utilizássemos a estrutura Model, View, Controller, nunca esquecendo de garantir o encapsulamento de dados.

Para o funcionamento correto do projeto, seria necessário que fosse possível pedir uma encomenda a uma loja, por parte de um Utilizador. Posteriormente a loja sinalizava que teria uma encomenda pronta para uma Transportadora ou Voluntario vir transporta-la até casa do Utilizador. Caso se tratasse de uma Transportadora, teria de haver uma posterior confirmação por parte do Utilizador de que realmente aceitava a despesa associada ao transporte da sua Encomenda. Quando transporte fosse concluído, o utilizador poderia avaliar o transportador e posteriormente iria se repetir este ciclo para qualquer outro Utilizador que entrasse no Sistema.

É também importante realçar que de maneira a poder controlar qualquer tipo de ação, será necessário fazer login no Sistema com o tipo especificado, ou seja, quando se pretender tratar alguma coisa da Loja, essa Loja terá de fazer o seu login e controlar as diferentes situações.

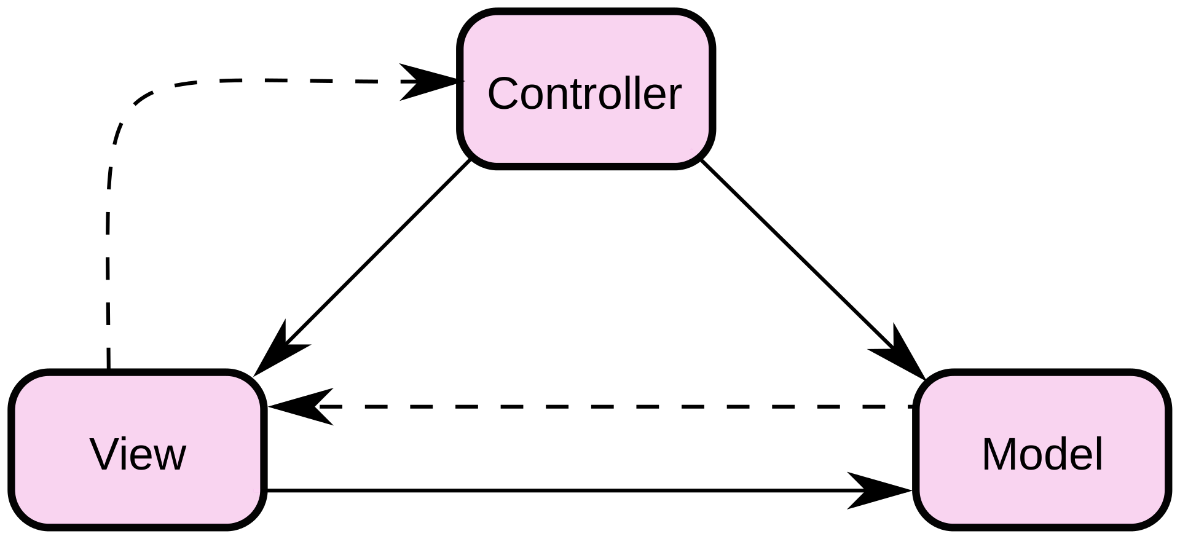
Assim, neste Relatório, iremos abordar a estratégias que decidimos adotar, bem como outras que decidimos não optar, apresentado a devida razão para cada uma delas, usando como auxílio os Diagramas de Classe.

Uma imagem com desenho

Descrição gerada automaticamente

# **MVC**

Antes de falarmos das Estruturas em si, falaremos da maneira como estas foram organizadas no Projeto de maneira a seguir o funcionamento desejado pelos Docentes.



Como podemos observar na imagem, o padrão MVC de auxílio ao utilizador, de maneira a poder interagir de diferentes maneiras com o Programa. Este padrão também permite uma melhor organização do Projeto, pois cada um dos componentes realizará uma função diferente. Falaremos então de cada um deles em específico.

## **Model**

A Model contem todas as classes quais a informação nelas presentes é usada para o tratamento de dados apenas. As classes nelas presentes não podem interagir com o Usuário, apenas sendo usadas para serem invocadas numa fase seguinte, quando houver dados para tratar.

## **Controller**

O Controller processa as informações vindas da View. Uma vez que há diferentes Views, terá de haver um Controller para cada uma delas.

## **View**

A View serve para apresentar no ecrã informação útil para o Utilizador se orientar no programa, e mostrando também o resultado das diferentes opções. Diferentes contextos requerem diferentes View, sendo que cada View terá de ter um Controller associado a si, de maneira a poder tratar todos os inputs.

## **Exceptions**

Para além do padrão MVC, o grupo criou também um Padrão para que quando houvesse ocorrências de exceções como a inexistência de um produto ou encomenda, para que o programa não simplesmente “morresse” e passa-se a informar o utilizador do erro que originou essa exceção.

# **Classes**

## **TrazAqui e TrazAquiApp**

Uma imagem com captura de ecrã, monitor, preto, sentado

Descrição gerada automaticamenteA classe **TrazAqui** irá conter todas as classes referidas anteriormente, sendo por isso a principal classe do Programa. Contém variáveis correspondentes as lojas, utilizadores, transportadores, histórico, quais os perfis existentes no programa, quais os pedidos para recolher e uma lista que contem os próximos códigos a serem gerados.

A classe **TrazAquiApp** trata de carregar o sistema do formato binário, permitindo recuperar o estado num ponto de paragem. Caso haja algum erro carregam-se os dados default do programa do ficheiro Logs. Para além disso, é responsável por inicializar o programa.

## **Utilizador**

Uma imagem com captura de ecrã, monitor, preto, ecrã

Descrição gerada automaticamenteUm Utilizador representa o Cliente no Sistema. Quando se pretende pedir um Encomenda é com este que se tem de fazer Login e dar inicio ao ciclo. Cada Utilizador contem informações como: **código, nome, GPS, pedidos Pendentes, notificações e histórico,** sabendo que o necessário seriam apenas as 3 primeiras. É importante ter um Map com os **Pedidos Pendentes**, uma vez que sempre que um Utilizador efetuar uma encomenda e esta ainda não tenha sido terminada, é uma boa maneira de sinalizar quais as Encomendas que ainda estão por entregar. As **notificações** avisam o Utilizador de que uma Transportadora aceitou transportar a encomenda e que agora cabe a este decidir se aceita ou não que o transporte seja realizado. Por fim achamos importante adicionar um **histórico** para que ficassem registadas todas as Encomendas que o Utilizador fez.

## **Transportadora**

Uma imagem com monitor, preto, captura de ecrã, computador

Descrição gerada automaticamenteUma Transportadora fica encarregue de se deslocar até uma Loja e recolher uma Encomenda, e posteriormente fazer o seu transporte até aos Utilizadores. De maneira a ser apta para transportar um Encomenda terá de se encontrar quer no raio da Loja, quer no raio do Utilizador, terá de se encontrar disponível e, conforme as características das Encomendas, verificar se está classificada para fazer o seu transporte. Falemos agora no porque da escolha de certas variáveis instância. É importante saber qual a encomenda que está atualmente atribuída a uma Transportadora, por isso esta terá o código da encomenda que atualmente a está a ocupar. À semelhança do Utilizador, atribuímos um Histórico que armazena todos os Pedidos que uma Transportadora já finalizou. Outros fatores como **precoPorKm** e **velocidadeMedia** são usados para futuros cálculos de tempo e preço associado ao transporte de uma Encomenda, além do preço associado a cada um dos produtos presentes nessa.

Uma vez que uma Encomenda pode conter medicamentos, seria necessário distinguir entre **TransportadorasCertificadas** para transporte de medicamentos e **TransportadorasNormais** (sendo que estas últimas não implementam nenhum método extra, logo é idêntica em tudo à classe Transportadora)

A TransportadoraCertificada é capaz de fazer transporte de encomendas com medicamentos, sendo que por isso lhe adicionamos uma variável denominada de **transportaMedicamentos** que sinalizará se nesse momento aceita transportar medicamentos (o facto de poder transportar medicamentos não significa que a qualquer momento possa fazer o transporte destes).

## **Voluntario**

Uma imagem com monitor, captura de ecrã, preto, computador

Descrição gerada automaticamenteÀ semelhança da Transportadora, um Voluntario trata de transportar as encomendas de um Utilizador, sendo que a única diferença seja o facto de um Voluntario não ter um custo associado a esse mesmo transporte, logo sempre que um Voluntario fique encarregue de Transportar uma Encomenda, o Utilizador apenas terá de se preocupar em pagar o preço dos produtos que encomendou.

Em termos de variáveis de instância, a principal diferença em relação à Transportadora é a inexistência da variável precoPorKm. Também dividimos este em **VoluntarioEspecial** e **VoluntarioNormal**, de maneira representar que pode ou não transportar medicamentos.

## **Loja**

Uma imagem com captura de ecrã, monitor, preto, ecrã

Descrição gerada automaticamenteA Loja contem o Stock de Produtos que um Utilizador poderá optar por comprar. Para além disso indica qual o seu **código, nome, GPS, uma lista de Espera e Histórico**. O histórico apresenta todos os Pedidos que já passaram por essa Loja e a razão pela qual inserimos uma fila de espera deve-se ao facto de ser importante saber quantos pedidos ainda estão por ser entregues.

De maneira a tornar o programa mais realista, o grupo decidiu criar uma **LojaComFilasEspera**, que implementava todos os métodos de uma Loja e para além desses acrescentava um inteiro correspondente à **ocupação** da Loja. Posteriormente, com base nessa ocupação , é nos possível dizer qual o estado da Fila de Espera nessa Loja, para que assim se saiba quanto tempo terá de se esperar na Loja até poder tratar de uma Encomenda. Esse tempo irá, obviamente, afetar o tempo e preço de transporte de uma Encomenda.

## **Stock e Produto**

Uma imagem com captura de ecrã, monitor, ecrã, propriedade

Descrição gerada automaticamenteUm **Stock** é representado por um Map onde cada Key corresponde ao **código do Produto** e o Value ao **Produto** associado a esse código. Cada Produto é constituído por um **código**, pelo seu **nome**, **peso**, **preço** e a sinalização se é ou não um **medicamento.** Estas informações do Produto permitem numa faze futura calcular o preço da encomenda e do transporte deste, sabendo que caso seja medicamento terá de ter um tratamento especial, daí a existência de Transportadoras e Voluntários certificados.

## **Encomenda**

Uma imagem com captura de ecrã, monitor, ecrã, preto

Descrição gerada automaticamente

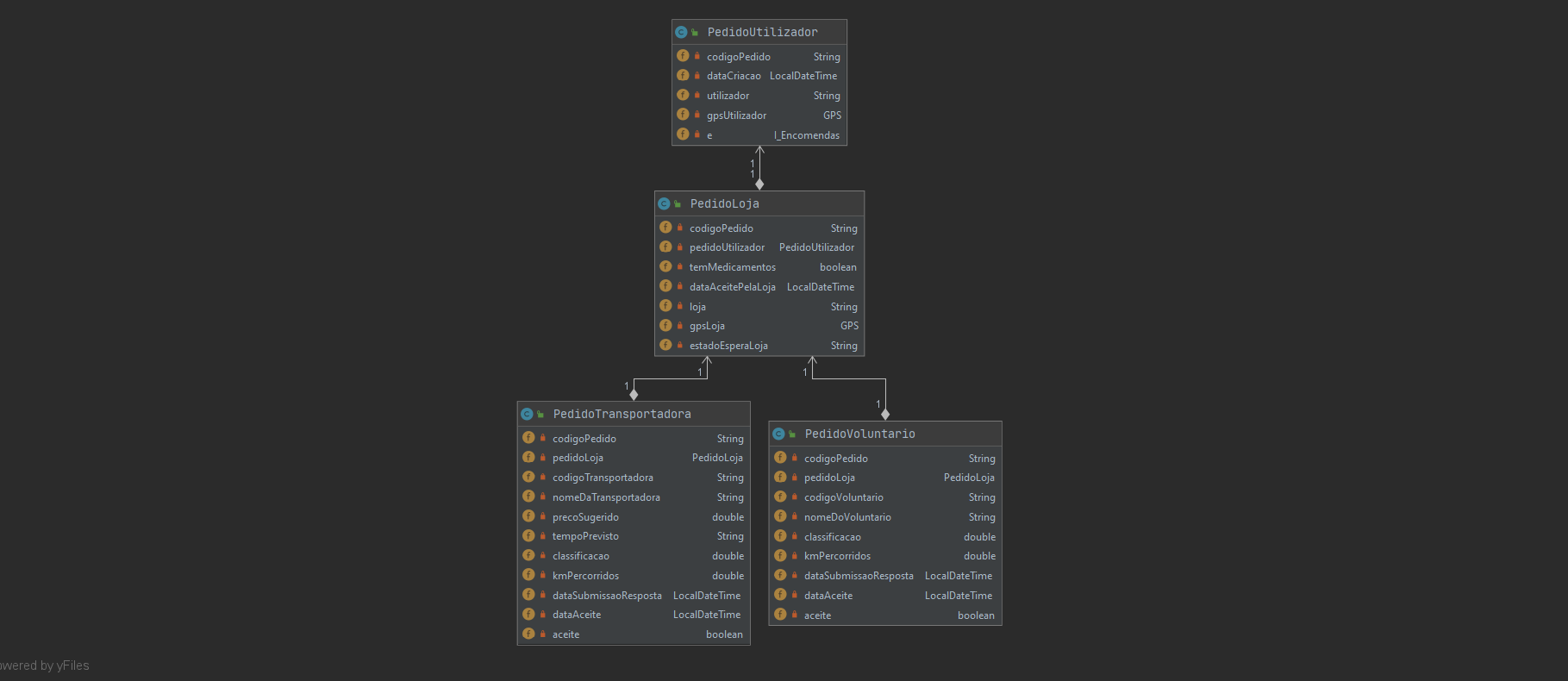
Uma **Encomenda** é definida pelo seu **código**, o **código do Utilizador** que a realizou, o **código da Loja** onde foi pedida, o seu **peso** e uma lista de **LinhasEncomenda.** Cada linha de Encomenda será constituída pelo **código do Produto** que transporta, uma **descrição** deste, bem como a sua **quantidade** e **valor.** Assim, é possível ao Utilizador fazer uma Encomenda onde deseje mais que um Produto.

## **Pedido**

Uma vez que é possível haver 4 tipo de Usuários no nosso Programa, achamos por bem que houvesse um Pedido específico para cada um destes, tendo criado para isso os seguintes Pedidos:

* **PedidoUtilizador**
* **PedidoVoluntario**
* **PedidoTransportadora**
* **PedidoLoja**
* **PedidoCompleto**

A informação presente em cada um destes é bastante similar, porém dependendo do tipo, haverá informações adicionais que achamos por bem colocar. Começando pelo **PedidoUtilizador**, este irá ter o código do Pedido, a sua data de criação, o código do Utilizador que o realizou, e a Encomenda nele presente. Já no caso do **PedidoLoja**, também haverá o código do Pedido, porém a restante informação é diferente. Optamos por incluir neste o PedidoUtilizador, a sinalização da existência ou não de medicamentos, a data de aceitação do Pedido por Parte da Loja, o código da Loja, a sua Localização e o estado de espera na Loja onde o Pedido foi realizado.

Seguidamente, o **PedidoVoluntario**, é constituído pelo seu Código, o PedidoLoja onde foi tratada a Encomenda, o código do Voluntário que transportará o Pedido, bem como o seu nome, classificação, número total de Kilometros percorridos, a data de Submissão da Resposta do Voluntario, a data em que efetivamente foi aceite e se realmente já foi Aceite. A única diferença entre o **PedidoTransportadora** e o Pedido anterior encontra-se nos códigos e nome do Transportador, que passa a ser Transportadora e não Voluntário e em duas instâncias. A primeira sendo o preço sugerido, uma vez que tem um preço associado ao transporte da encomenda e dos Produtos que esta contem. A segunda refere-se ao tempo previsto da Viagem até ao Utilizador.

Por fim, criamos um **PedidoCompleto,** que representa o Pedido finalizado. Neste apenas temos informação acerca do código do Pedido, o Pedido que foi finalizado, a data em que foi entregue e a sinalização se o Transportador desse Pedido já foi ou não avaliado.

## **Restantes Classes**

Além das Principais Classes do nosso Programa referidas anteriormente, temos classes que tratam de fatores de Aleatoriedade, ler Ficheiros e verificar quais os Tipos de Utilizadores que se encontram atualmente no programa.

### **Aleatoriedade**

Uma imagem com captura de ecrã, ecrã, preto, monitor

Descrição gerada automaticamenteDe maneira a tornar o projeto mais interessante, decidimos criar fatores de Aleatoriedade, que afetassem o tempo de transporte de encomendas e que se aproximassem o mais possível da realidade do dia-a-dia de uma Pessoa. Assim, usamos **Enums** para enumerar esses diferentes fatores. O Enum **CondicoesAtmosfericas** indica-nos como estará o tempo na altura do transporte de uma Encomenda, e tal como na vida real, quando está a chover há que conduzir com prudência, aumentando o tempo de transporte.

Outro fator importante será **EstadoEstrada,** pois pior o pavimento da condução, mais cuidado será necessário e dai mais tempo será necessário para o transporte. Por último, e talvez o mais óbvio, definimos o **Transito,** onde quantos mais veículos houver na estrada, mais tempo será desperdiçado.

A classe de Aleatoriedade tratará de gerar um inteiro de 0 a 3 que corresponderá a um estado dos diferentes Enums, e onde será calculada uma taxa de acréscimo ao tempo de transporte do Pedido.

### **Perfil**

Uma imagem com captura de ecrã, monitor, telefone

Descrição gerada automaticamente

De maneira a poder navegar pelo sistema, um usuário terá de ter um perfil registado. Informação como email, password, código e tipo de Utilizador são necessários para preencher o perfil de um Usuário. Para saber que tipos de Utilizadores existem, criamos um **Enum** **TiposUtilizadores** que contem os tipos **UTILIZADORES**, **LOJAS**, **VOLUNTARIOS**, **TRANSPORTADORA** e **SISTEMA**. É importante ter estes tipos pois assim quando for necessário ir para o menu de um dado usuário, sabendo qual o seu tipo podemos facilmente saber qual a View que carregar.

### **LeituraFicheiros**

Realiza a leitura do ficheiro Logs e cria um TrazAqui com a informação retirada desse, para que assim haja dados no sistema. Também permite carregar um estado através da leitura de um Ficheiro com dados sobre o estado anterior do Programa, podendo assim retomar-se a um estado anterior que não o atual.

Primeiramente, utiliza-se o FileReader para ler o ficheiro “Logs” fornecido, fazendo posteriormente a separação da informação presente em cada linha. Conforme o código de Hash das palavras iniciais, ou seja “Utilizador”, “Loja”, “Aceite”, “Encomenda”, “Transportadora” e “Voluntario”, irá decidir como guardar as diferentes informações.

Realizada essa tarefa, trata de registar quais os códigos que irão ser gerados para as próximas encomendas, para que assim não haja códigos de encomendas repetidas.

# **Interfaces**

Uma Interface é vista como uma classe totalmente abstrata, onde são agrupados métodos (totalmente abstratos) que serão partilhados por classes que implementem essa Interface, ou seja, sempre que uma classe implemente uma Interface irá de ter implementado os métodos que estão definidos nessa Interface.

Assim, sempre que achamos necessário, implementamos uma Interface que contivesse todos os métodos que essa classe precisava de ter implementado, para que quando fosse necessário aceder a uma dada classe acedermos antes à sua Interface.

Com esta implementação de interfaces torna possível alterar/acrescentar novos tipos de classes sem ter de alterar todo o conteúdo do projeto, podendo assim alterar, por exemplo, a classe que estamos a usar como variável de instância sem mudar em nada o código da classe que contém essa variável, fazendo assim com que o código fique mais aberto para mudanças e evolução.

# **Descrição do Programa**

Iremos então descrever como funciona o nosso Programa com ajuda de algumas imagens sobre este. Para perceber melhor como funciona este, vamos simular o pedido de uma Encomenda e a Posterior entrega desta ao Utilizador(utilizador já existente no Sistema).

**1.** Quando um utilizador entrar no nosso programa é lhe imediatamente perguntado se já tem conta ou se pretende criar uma. Depois de passada essa etapa o Utilizador decide o que pretende fazer no nosso programa. Neste caso, como queremos pedir uma Encomenda, selecionamos a opção “Pedir Encomenda”.

**2.** Será depois necessário selecionar a loja onde pretendemos realizar a encomenda e seguidamente ser-nos-á apresentado no ecrã a lista de Produtos que estão disponíveis no Stock dessa Loja. É possível encomendar mais que um Produto e pedir a quantidade destes que deseje.

**3.** Assim que sair finalizar a encomenda, o Utilizador é informado se esta foi concluída com sucesso, e caso tal se verifique, a encomenda é enviada para a Loja e o Utilizador é retornado ao menu Principal(onde se desejar poderá selecionar outras opções).

**4.** Quando a Loja aceder ao seu Perfil, irá reparar que tem um Pedido Pendente que poderá aceitar. Após aceitar a encomenda, as Transportadoras e Voluntários que estejam quer no raio do Utilizador, quer no raio da Loja serão notificados de que há uma Encomenda que está à espera de ser transportada.

**5.** Uma vez feito o login com um Transportadora que cumpra os requisitos, é possível pedir uma Encomenda para Entregar. Caso seja essa a opção escolhida, ser-lhe-ão apresentadas todas as encomendas que há para transportar, bastando escrever o código da encomenda que pretender aceitar.

**6.** Após tudo isto, o Utilizador será notificado que uma transportadora se ofereceu para transportar a sua encomenda, podendo este optar por aceitar ou não os preços associados ao transporte desta. Caso aceite, a Transportadora é informada de que pode começar a fazer o transporte.

**7.** Cabe por último há transportadora finalizar a Entrega para que assim esteja concluído o ciclo a entrega.

Para além do que foi referido há bastantes outras opções funcionais no nosso programa que poderão ser experimentadas pelos docentes.

# **Conclusão**

Após finalizar o projeto, o grupo ficou bastante contente com o resultado obtido. Sentimos que apesar do conceito parecer um pouco confuso e de haver varias funcionalidades, qualquer pessoas que entre neste facilmente se conseguiria orientar. Tentamos cumprir todos os requisitos do enunciado do Projeto e incluir, tal como pedido, fatores de aleatoriedade que distinguissem pela positiva o Trabalho.

Apesar disso, temos noção que, a nível de código, há algumas partes que poderíamos ter melhorado. Por exemplo, quando tratamos de Pedidos, há bastante informação repetida, que não simboliza uma boa prática de Programação. Tal não foi implementado pois quando pensamos nas estruturas destes pensamos neles separadamente e não em conjunto, acabando por reparar no final que podíamos ter feito uma melhor gestão de código. Tentamos respeitar ao máximo a Composição, fazendo clones sempre que possível para haver encapsulamento de dados.

Em geral, aprendemos bastante sobre os padrões de escrita em Java e de como a língua funciona, e tivemos bastante prazer a fazer o trabalho.

# **Diagramas de Classe MVC**

Uma imagem com captura de ecrã, monitor, ecrã, preto

Descrição gerada automaticamenteUma imagem com captura de ecrã, monitor, ecrã, preto

Descrição gerada automaticamente

**Figura 1: Diagrama de Classe da View**

Uma imagem com interior, sentado, monitor, computador

Descrição gerada automaticamente

Uma imagem com captura de ecrã, monitor, ecrã, computador

Descrição gerada automaticamente**Figura 2: Diagrama de Classe do Controller**

Uma imagem com interior, monitor, captura de ecrã, ecrã

Descrição gerada automaticamente

**Figura 3: Diagrama de Classe Models**