Integração Empresarial

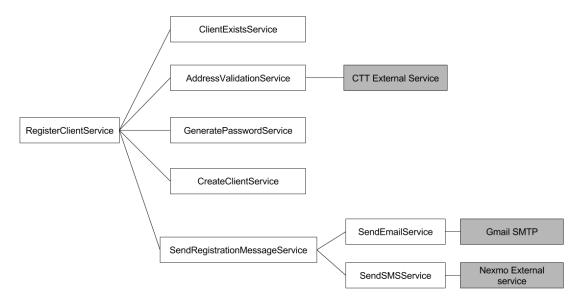
Project

Delivery 1 - Service Trees

Group 8

Diogo Cardoso 75209 Luís Alves 75926

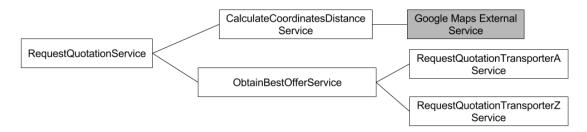
1. Register Client Service Tree



To implement this service, we use the following services:

- **ClientExistsService**: uses an adapter to the database to validate if a client is registered.
- AddressValidationService: Uses the CTT external service to validate an address.
- **GeneratePasswordService**: Generates a random password with a specific size.
- **CreateClientService**: Uses an adapter to the database to create a new client, returns the new client number.
- SendRegistrationMessageService: Sends an email to the client with it's number and password. Uses a service named SendEmailService or SendSMSService to send the message as an email or SMS, depending on an argument that is passed.

2. Request Quotation Service Tree



To implement this service, we use the following services:

- CalculateCoordinatesDistanceService: Uses the Google Maps external service to calculate the distance (in km) between two sets of coordinates (latitude and longitude).
- ObtainBestOfferService: Compares the offers from the two transporters (A and Z) and returns the best offer and respective transporter. It invokes the transporters' services (RequestQuotationTransporterAService and RequestQuotationTransporterZService) which calculate the offer based on the parcels' weight and travel distance.