Papelaria ABC website guide

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# General Architecture

## Topographical illustration

A diagram of a diagram

AI-generated content may be incorrect.

## 

## Classes and methods

### Gateway

The core of the entire system, connecting the website’s controller to the Database Manager and serving as the access point for Admin Client.

### Database Manager

Handles interactions between other programs and the database, whether it be lookups, updates, etc.

**dbFetch (name = null; price\_min = 0; price\_max = -1; type = null, ID = -1)**

Reads database and returns a list with all the elements that fit the requirements of the Fetch arguments (naming, price range, type of product/service). These arguments have default values.

**dbUpdate (name = null; price = null; quantity = null; type = null; ID)**

Updates the database, whether it be editing data or adding new products. The method looks up items by ID and if it finds some correspondence, updates the data with its respective input value (uninitialized values mean no alteration to said data). If no matches exist, the program creates a new entry in the database, in which case all arguments must have a valid value.

### Admin Client

A simple, straightforward and user-friendly class that allows for testing, maintenance and other capabilities by admins. It is meant to launch the entire program from scratch, as well as shutting it down.

### Website Controller

The controller that manages the interactions between the website’s model and its views.