

TALLINN UNIVERSITY OF TECHNOLOGY

School of Information Technologies

## **Car Wash**

Kristjan Pille

Supervisor: Andres Käver

Tallinn 2020

## **1 Introduction**

The goal of this project is to create car hand wash/detail service for European market. New car registrations in Europe are in uptrend, which also raises demand for new car washes. As of now most of the car washes are either self service or In-Bay ones. Self service is a quick way to rinse the car, but in reality car will not get cleaned properly, on the other side there is Bay-In car wash which are way too harsh, especially for cars with softer paint and will damage it in long run.

This car wash service would offer clients quick and safe way to get their cars clean(done by professionals). Costs would be lower than many other car wash services out there due to specially selected products which have the best value to performance ratios. In price it would be approximately 25% cheaper for the same basic car wash package than competition offers.

Another benefit against competition is using only biodegradable chemicals, which most of other car washes fail to cover(could be used as marketing point).

Biggest barrier to starting car wash service is acquiring respective location for it due to continuous raise in real estate prices and its need to be in semi remote area because of noise pollution. Equipment will also be one of the biggest complications when creating a car wash service due to its high price when it comes to professional equipment.

## 2 Scope of work

Car wash has one employee(could be expanded to service two or more cars at once). Car wash is operatable yeararound due to its being in closed conditions(weather does not have impact on its work).

Clients can reserve their preferred services in web. When selecting a service they will select time and date for it and addition to that also their car mark and model which will be serviced.

Payment can be done via paypal or bank transfer. Payment has to be made before starting selected service on a vehicle.

Price list will be according to car size(bigger the size, bigger the price). Price list is general, all services will be on the same list. Dynamically it is possible to add new services or remove them.

Interior cleaning price will raise addition to car size when car has leather seats or leather details. In beginning there will be four services to select from.

Interior cleaning package(Vacuum cleaning of the interior and trunk, Wiping of all the interior and trunk surfaces, Cleaning front glasses from inside the car, Cleaning floor mats)

Premium Interior cleaning package(Vacuum cleaning of the interior and the trunk, Wet wiping of all the interior and trunk surfaces, Cleaning of plastic elements of trunk and interior with “Meguiars” all purpose cleaner, Floor mats cleaning, Cleaning all the glasses from inside and outside the car)

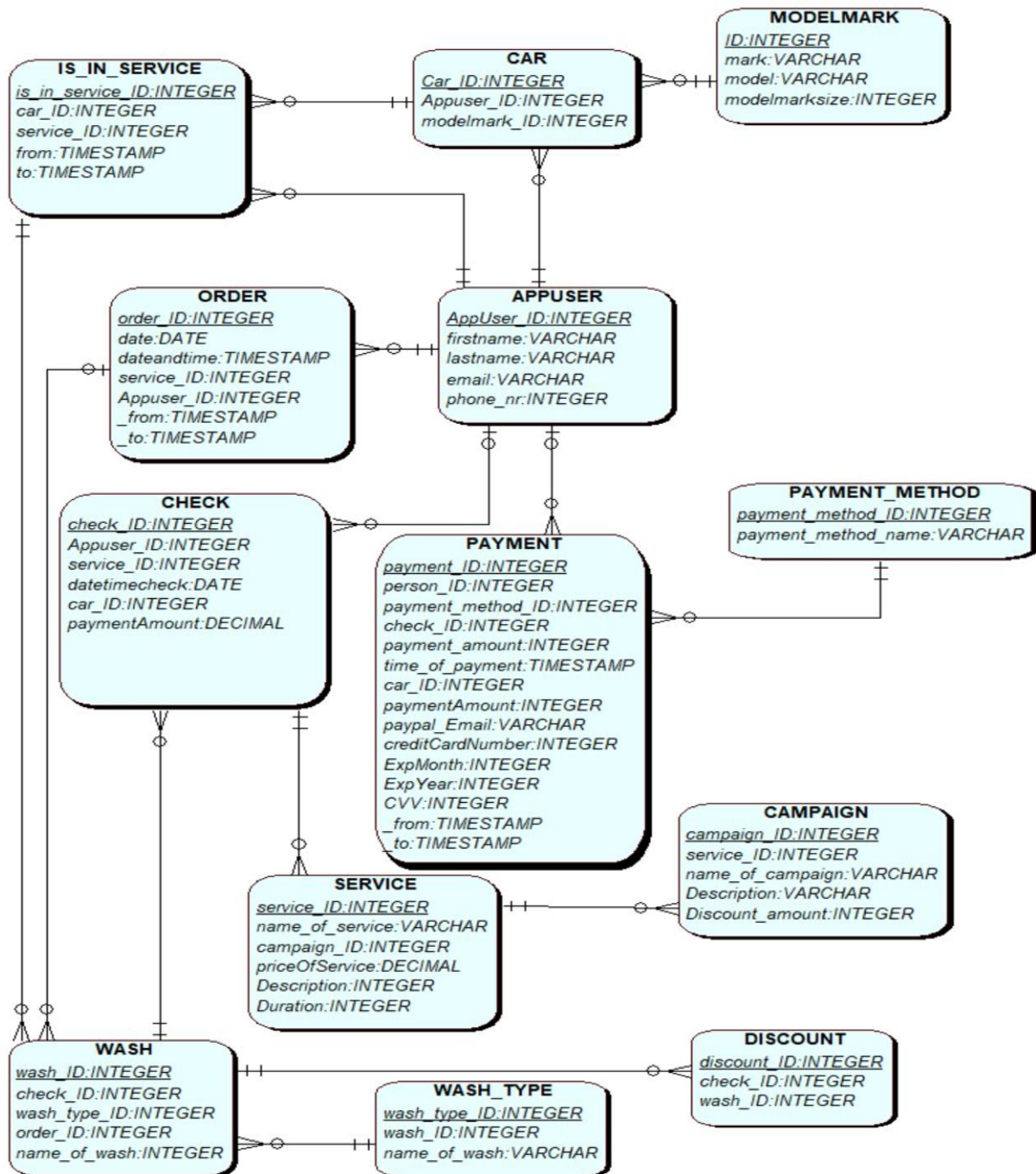
Standard exterior wash(Snowfoam pre wash, Shampoo wash, Drying with microfiber cloth including door sills)

Premium exterior wash(Snowfoam pre wash, Shampoo wash, Liquid wax, Cleaning floor mats, Drying with pressured air, tire dressing)

In addition to interior and external washes, it is possible to add numerous other services: Engine bay detailing, cars undercarriage decontamination and protection against corrosion, car polishing(multiple stages), changing tires.

In future it would be nice to add separate section for car protection(ceramic coatings, waxes, interior coatings, black trim restoring etc.). Also first a service has to be selected to be able to pick any of the extra protection packages.

Also support for admin UI should be added. Campaigns that admins can add/modify, the service list will be updated dynamically when new campaign has been added(Discount price will be shown automatically under the original price). Also a list of orders for admins to see the list of upcoming services.



**Sources:**

<https://tradingeconomics.com/euro-area/car-registrations>

<https://www.carwash.org/for-operators/industry-information>