

Car Rental Application

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Description:

“ Looking for a rental car for your holidays or for personal reasons? RentalCar propose you some rental car with your criteria. Put the city, the period of time and choose your car! ”

Creation of rental car application (Website and iOS Application). The most important of this application will be the web service(Restful API). This web service will use to communicate all information to website and iOS application. All information is saved into a relationship database.

For the rental application, we have two sides, client and administration. For the client side, we have the website and the iOS application where we can book a car. Other side, for the administration, meaning to add car, delete car, add other information...

Technologies, librairies used:

Website and API:

- HTLM/CSS
Graphic Framework - Bootstrap, fast design development
Structure of website and style/design
- JavaScript
Use to filter data, some animations, asynchrone ajax request...
- Php + Laravel Framework
Backend part of website.
Laravel framework facilite the development (routing system, model MVC, template engin, authentification, migration, ORM, ...)
- MySQL
relationship database: backup all data necessary to the site

iOS application:

- Apple Platform
- Swift

Versioning project with Git

Plan:

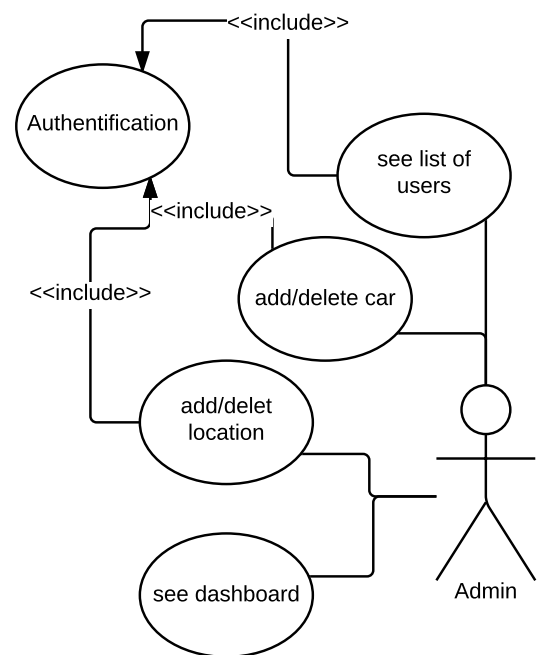
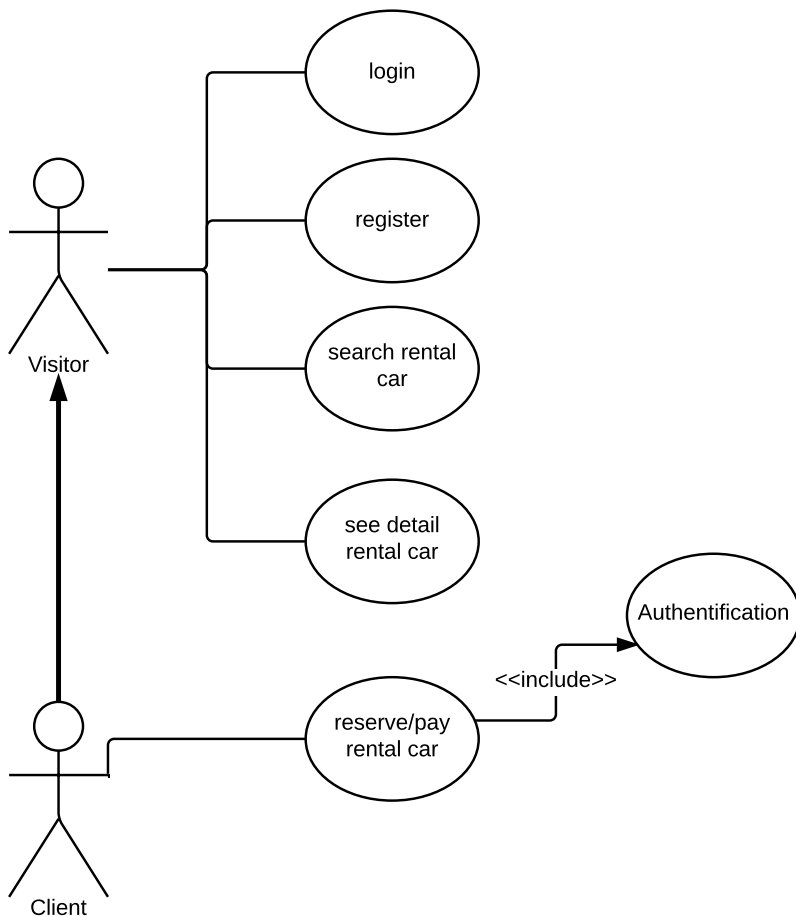
1. Design of the database, website&API architecture
2. Implementation of the first step
3. Creation of the website
4. Communication database, web app and server
5. Development of the iOS application and Documentations

User plan:

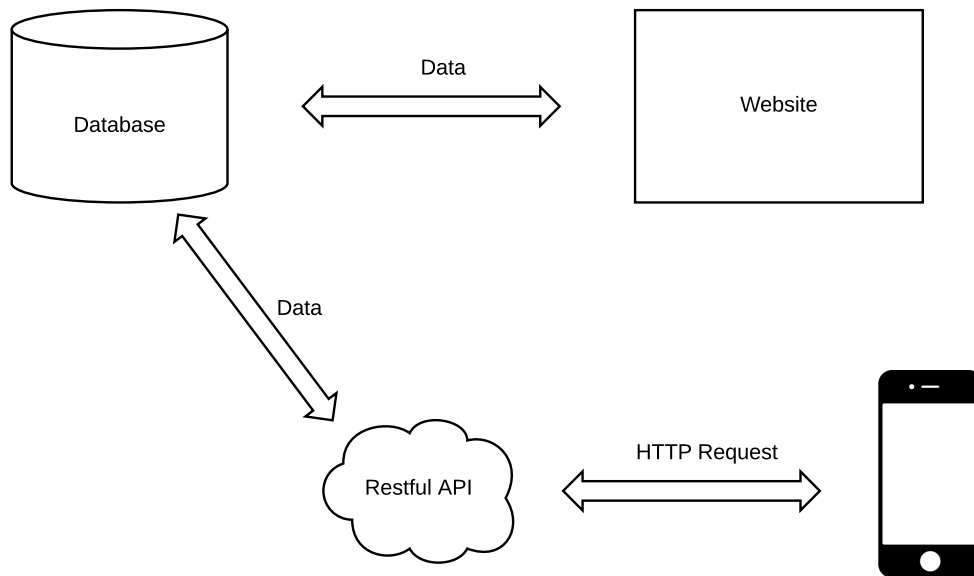
Besart: Design of the website

Ysee: backend of the website, API, Mobile App

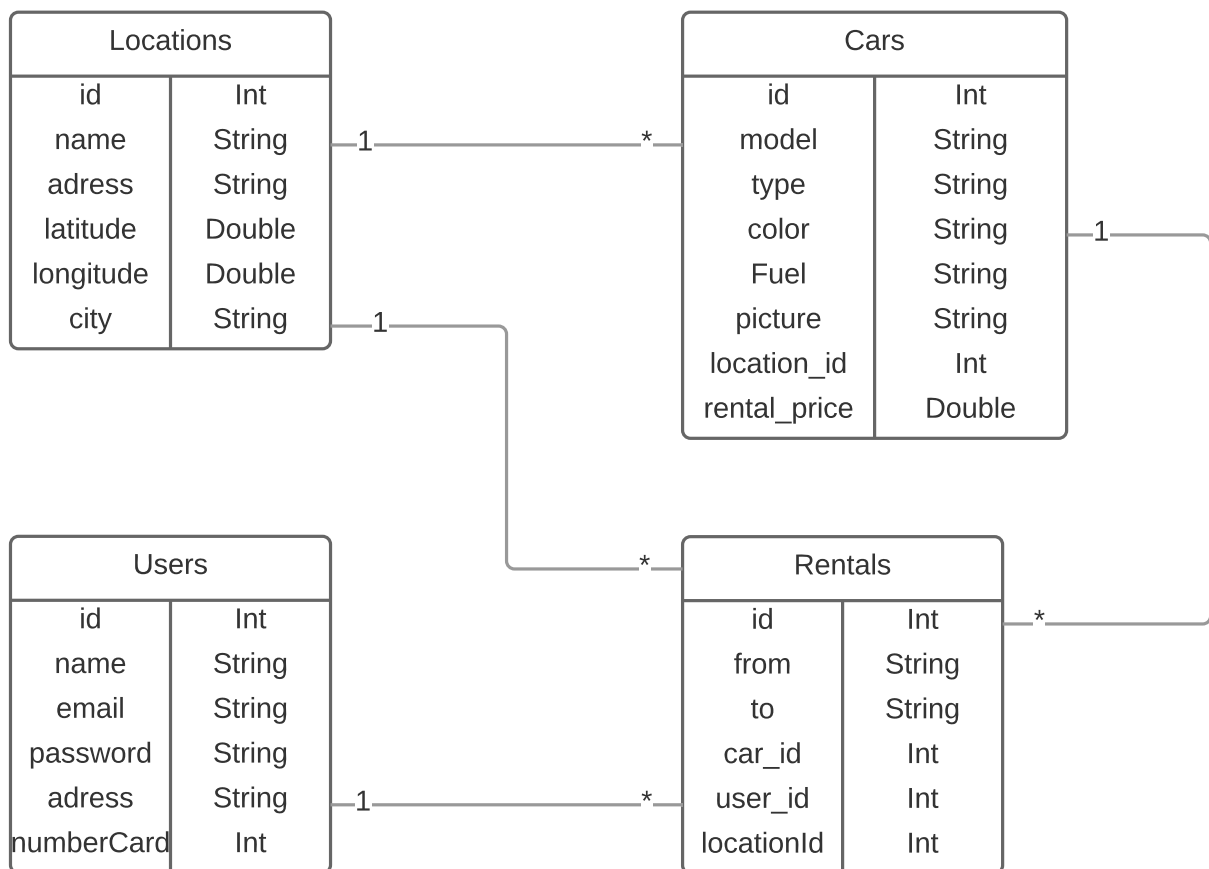
Use case:



General architecture:



Database diagramme:



Website HTTP Architecture:

AUTHENTICATION

GET /login

—> Authentication (email/password)

POST /login

—> Send data login

GET /register

—> Registration (name/email/password)

POST /register

—> send data registration

GET /logout

—> logout and redirect to home page

ADMIN

GET /admin

—> admin home page

GET /admin/user/list

—> list of all users

DIVERS

GET /home

—> home page, presentation

GET /about

—> About page

GET /find

—> form to find you rental car (location, date from, date to,...)

GET /find/list

—> display all rental car depending your criteria

GET /find/list/{number}

—> display detail of the rental car

POST /rentalcar/rental

—> create rental
parameters:
 id: number rental car

API HTTP Architecture:

AUTHENTICATION

GET api/login
—> Authentication (email/password)

POST api/login
—> Send data login

GET api/register
—> Registration (name/email/password)

POST api/register
—> send data registration

DIVERS

GET api/cars
—> list of cars

GET api/find
—> fetch all cars with specifics criteria (from, to, city)

POST api/find
—> create rental car [params: to, from, city, userId, ...]