

# Bolttech Barcelona Fullstack test

Welcome to Bolttech, the fastest growing insurtech in the world.

You are landing on a new business team, within a squad called Carental. This unit will develop a new platform for car rental in Barcelona. The project is in design and discovery status, but we have been asked to create an MVP to prepare a demo for the global leads team in next weeks.

After long meetings, high level discussions and a lot of coffee, the product team decided that what is most important for this MVP is to show the bookings motor that we will prepare.

You will prepare the basics of this new project, you have a greenfield, there is no code, no restriction and no limits on your imagination; but as nothing comes free, you will have some minimal requisites to fulfill before the demo happens.

You are required to build a basic, simple UI over an API that provides the following requisites

## User stories

### US 1

As a customer I want to see the availability of cars on concrete time slots So I can be informed of pricing and stock

#### Requisites

- All available cars for the complete time slot will be returned.
- All cars returned will have the complete booking price, and an average day/price.

### US 2

As a customer I want to create a booking for a car

#### Requisites

- A user can have only one booking on the same dates.
- Driving license must be valid through all booking period.

## Our expectations

- There are no limits here, but keep in mind that this is an MVP, not a commercial application.
- While this can take as many time as you want, we don't expect you to be working on this for 20 hours, if you feel you are not enjoying this, just write down in a .md file what you have left and how would you like to do it.

- We like to work with DDD, EDD, TDD and anything that has two "D" in its name.
- Tests should be written for at least one use case, we prefer you to finish one use case but tested than both cases without any test.
- We expect quality over quantity, SOLID, hexagonal and design patterns should be present, but don't take much more time, this is a test.
- A detailed README and documentation are needed to test and understand the app.

## Predefined values

There are 3 main seasons:

- peak season - 1st of June to 15th of September
- mid season - 15th of September to 31st of October, 1st of March to 1st of June
- off-season - 1st of November to 1st of March

And the cars we will have in our warehouses:

Brand	Model	Stock	Peak season price	Mid season price	Off-season price
Toyota	Yaris	3	\$98,43	\$76,89	\$53,65
Seat	Ibiza	5	\$85,12	\$65,73	\$46,85
Nissan	Qashqai	2	\$101,46	\$82,94	\$59,87
Jaguar	e-pace	1	\$120,54	\$91,35	\$70,27
Mercedes	Vito	2	\$109,16	\$89,64	\$64,97