

Recruitment project

The customer wants to build a web application for managing the city parking spaces.

Your job is to:

- design the API (REST preferably)
- create a model
- implement customer's user stories

User stories

1. As a driver, I want to start the parking meter, so I don't have to pay the fine for the invalid parking.
2. As a parking operator, I want to check if the vehicle has started the parking meter.
3. As a driver, I want to stop the parking meter, so that I pay only for the actual parking time
4. As a driver, I want to know how much I have to pay for parking.
5. As a parking owner, I want to know how much money was earned during a given day.

Important notes

- The parking rates are:

Driver type	1st hour	2nd hour	3rd and each next hour
Regular	1 PLN	2 PLN	2x more than hour before
VIP	free	2 PLN	1.5x more than hour before

- Don't implement any payment transactions, penalties and so on.
- For now, only one currency is accepted but it's likely to change in the future.

Rules

- Project should be written in Java, Kotlin or Scala.
- Project should be built by Maven, Gradle or SBT. You should prepare bash script `start.sh` that runs it.
- You can mock/stub/fake the database.
- Concentrate on the good design and the clean code, rather than supplying a fully functioning application.
- Remember about the tests.
- If you will make any additional assumptions, please write them down in a separate file.
- You can create an online repository and share us a link or send the solution via email.