

Rules of the game:

- 1 You have 7 days to implement a solution.
- 2 Your solution must build+run on Linux.
- 3 You are free to choose any tech stack
- 4 Your code will be evaluated for both functional and non-functional requirements such as code quality, ease of setting up dev and production environment, load testing scripts etc.
- 5 Automated tests are mandatory, so please include tests/specs. Additionally, it's a huge plus if you test drive your code.
- 6 We are really, really interested in clean and maintainable codebase, so please solve the problem keeping this in mind.
- 7 Please ensure that the coding conventions, directory structure and build approach of your project follow the conventions set by popular open source projects in the language that you're using.
- 8 When implementing this solution, please use Git for version control. We expect you to send us a zip/tarball of your source code when you're done that includes Git metadata (the .git folder. in the tarball so we can look at your commit logs and understand how your solution evolved.
- 9 Please include any spikes or tracer-bullets you run.
- 10 **Do not make** either your solution or this problem statement publicly available by, for example, using github or bitbucket or by posting this problem to a blog or forum.

ReadMe

ReadMe for your project should include -

- 1 A brief explanation of why a particular tech stack was chosen
- 2 Infrastructure requirements for running your solution
- 3 Setup instructions, automated deployment of the program and dependencies to development and test environment is a plus
- 4 Please send in your submissions to code@go-jek.com

Where is My Driver

We have 50,000 drivers who go around the city looking for rides. Typically drivers are evenly distributed across the city. There are customers all over the place trying to find the driver. To facilitate this, we need to keep track of drivers current location and provide an ability to search drivers in a given area. You need to build 2 APIs to achieve this.

Both APIs should respond within 100ms.

Driver Location

Request:

GET /drivers

Parameters:

"latitude" - mandatory

"longitude" - mandatory

"radius" - optional defaults to 500 meters

"limit" - optional defaults to 10

Response:

- 200 OK

```
[
  {id: 42, latitude: 12.97161923, longitude: 77.59463452, distance: 123},
  {id: 84, latitude: 12.97161923, longitude: 77.59463452, distance: 123}
]
```

- 400 Bad Request - If the parameters are wrong

```
{"errors": ["Latitude should be between +/- 90"]}
```

Distance in the response is a straight line distance between driver's location and location in the query

Expected Load:

- 20 concurrent requests