

## Coding Task

Build a REST API for a mobile app that allows users to review any place (shops, doctors, restaurants, etc).

You can use whichever language/framework you're most comfortable in. If you're familiar with Django then use that, since we prefer candidates with Django knowledge. For persistence we give strong preference if you use a relational database as opposed to non-relational.

In case you have any doubts about the problem statement after receiving this, please feel free to make assumptions and mention it somewhere in your submission, because we may not be able to respond to any doubts immediately while you're doing the task.

### Some assumptions:

- The UI will be built by someone else - you are simply making the REST API endpoints to be consumed by the front end.
- Assume that your code will be deployed using just a web server and the database. There should not be any other servers or services involved, whether locally or third-party services.

### User registration:

- A user has to register with a name and phone number.
- Only one user can register on the app with a particular phone number.
- A user needs to be logged in to do anything; there is no public access to anything.

### Place:

- Each place has a name and address.
- There can only be one place in the database with a particular name and address.

### Review:

- A review consists of a 1-5 rating, some text, the user who left the review and when the review was left.

### Add review:

- A user can leave a review for a place by entering the place's name, address and rating. If a place with that name already exists, then the review will be left for it, else a new place will be created.

### Search:

- A user can search for a place by name and/or minimum rating in the global database).
- If a category is entered, then only consider places with that minimum average rating
- If a name is entered, any places matching the name fully or partially should be shown. First places having that exact name should be shown, and then places having that name as a substring in their name.
- Search results display the name and average rating of each result

**Search result details:**

- The user can also click a search result to see more details about that place.
- Clicking a search result displays all the details for that place i.e. name, address, average rating and all reviews left. For each review, show the name of the user who left it as well.
- If the current user has left a review for that place, that review must appear at the top of the review list, followed by all other reviews sorted by newest first.

**Data Population:**

- For your testing you should write a script or other facility that will populate your database with a decent amount of random, sample data.

**Evaluation criteria:**

- Please note that the bar is fairly high. We read your code manually to see if you write code with the same rigour that we expect from our developers. It's as if you are sending us a pull request for a production feature. It won't be enough for the code to just "work", especially if you're applying for a non-fresher role.

**How to send the code:**

- Reply to the *same* email in which we sent you this, with a tar or zip file containing your source code. We use a tool to keep track of submissions, so if you don't reply to the same email we won't receive it.
- Don't put it up online on Github etc - if you make it publicly accessible, we will not reply.
- Sometimes gmail doesn't allow code attachments to be sent - if that happens upload the file on Google Drive and share the access/link with us.
- Please don't include your environment or similar folder as it takes a large amount of space. Any submission that is over 1 MB will not be evaluated.
- Include instructions on how to run your code.

**Next steps:**

- Please note that usually we try our best to reply with a decision within a week of receiving your code. However, since we are a startup, sometimes urgent work may come up and it may take us a couple of weeks to respond.
- In case we don't go ahead with an offer, please note that we won't be able to give you detailed feedback on your assignment.

**Request regarding plagiarism:**

- Please ignore this if, like most people, you are not plagiarising your work.
- Please don't send code that is partly or fully written by someone else.
- We check every new hire's code for plagiarism very thoroughly a few weeks after you join us. If any level of plagiarism is found in your assignment, or any misrepresentation is found in the professional credentials you present in your resume, then your employment will be terminated immediately and no salary will be due. So please don't do it, for your sake if nothing else.