



# ShiftCare Technical Challenge

## Description

You are tasked with building a minimalist command-line application using Ruby. Given a JSON dataset with clients (attached), the application will need to offer two commands:

- Search through all clients and return those with names partially matching a given search query
- Find out if there are any clients with the same email in the dataset, and show those duplicates if any are found.

## Submission

Please provide a zip file with your code or a link to a public repository containing your Ruby project. Please include a README with instructions on how to set up and run the command-line application, it'd be great if you could include any relevant assumption you've made.

## Next steps

You'll meet with some of our engineers to add further capabilities to your submission. Please design your application (and tests) expecting to expand on its current features, for example:

- What if we wanted to accept any JSON file, and make the search dynamic i.e. the user specifies which field to search for, rather than always searching by name?
- What if we wanted to offer the same functionality on a REST API? i.e. GET <http://localhost:3000/query?q=foo>
- What if we wanted to offer this capability at scale?

## Dataset

Please find a clients.json file attached here:

## clients.json

```
[
  {
    "id": 1,
    "full_name": "John Doe",
    "email": "john.doe@gmail.com"
  },
  {
    "id": 2,
    "full_name": "Jane Smith",
    "email": "jane.smith@yahoo.com"
  },
  {
    "id": 3,
    "full_name": "Alex Johnson",
    "email": "alex.johnson@hotmail.com"
  },
  {
    "id": 4,
    "full_name": "Michael Williams",
    "email": "michael.williams@outlook.com"
  },
  {
    "id": 5,
    "full_name": "Emily Brown",
    "email": "emily.brown@aol.com"
  },
  {
    "id": 6,
    "full_name": "William Davis",
    "email": "william.davis@icloud.com"
  },
  {
    "id": 7,
    "full_name": "Olivia Miller",
    "email": "olivia.miller@protonmail.com"
  },
  {
    "id": 8,
    "full_name": "James Wilson",
    "email": "james.wilson@yandex.com"
  },
  {
    "id": 9,
    "full_name": "Ava Taylor",
    "email": "ava.taylor@mail.com"
  },
]
```

```
{
  "id": 10,
  "full_name": "Michael Brown",
  "email": "michael.brown@inbox.com"
},
{
  "id": 11,
  "full_name": "Sophia Garcia",
  "email": "sophia.garcia@zoho.com"
},
{
  "id": 12,
  "full_name": "Emma Lopez",
  "email": "emma.lopez@protonmail.ch"
},
{
  "id": 13,
  "full_name": "Liam Martinez",
  "email": "liam.martinez@fastmail.fm"
},
{
  "id": 14,
  "full_name": "Isabella Rodriguez",
  "email": "isabella.rodriguez@me.com"
},
{
  "id": 15,
  "full_name": "Another Jane Smith",
  "email": "jane.smith@yahoo.com"
}
]
```