

# Contact Management System

## Problem Statement

Build a simple contact management system where contact contains first name, last name, phone number ([E164 format](#)).

## Functionality

- Add/update contact(s)
- Search contacts (partial(prefix) or complete) (Note in all searches show the total count & search results)
  - Search by first name (search term is case insensitive)
  - Search by last name (search term is case insensitive)
  - Search by phone number

## Expectations

- Identify all the entities and attributes required for the above functionality
- You can implement the functionality in one of the programming languages (Java, Golang, Ruby, JS or Python)
  - a. Please don't create REST APIs or any UI for the same.
  - b. You can test the functionality using unit test cases.
  - c. The focus is on the core functionality and how it is implemented v/s how it is presented (UI or API structure).
- Use coding best practices (SOLID, DRY etc.) and ensure that you are writing modular & extensible code (to accommodate any future changes in functionality)
- The submitted code would be judged on both coding best practices and functional correctness.