

TSA Innovation Lab - Practical Code Challenge

Synopsis

Create a HTTP server that will accept and persist data for a “Contact” into a relational database. Optionally provide a web interface that will work in Google Chrome and displays the persisted contacts.

Guidelines

- Only valid data must be accepted.
- Assume the outer architecture will provide the security, and is therefore not required.
- The phone number must be persisted in E.164 format and should always be an Australian number.

Example Contact Data

```
{"full_name": "Alex Bell", "email": "alex@bell-labs.com",  
"phone_numbers": ["03 8578 6688", "1800728069"]}
```

```
{"full_name": "fredrik IDESTAM", "phone_numbers": ["+6139888998"]}
```

```
{"full_name": "radia perlman", "email": "rperl001@mit.edu",  
"phone_numbers": ["(03) 9333 7119", "0488445688", "+61488224568"]}
```

Outcome

Provide any artefacts you deem necessary to satisfy the needs of a commercial organisation that would deploy this into a production environment. Zip file, or GitHub/Lab repository.

Include any assumptions, tests, thoughts, comments or decisions that were made relating to requirements or implementation. Let the reviewer know what you were thinking at the time.

Approach Recommendations

- The solution does not necessarily need to be complete, provide details incompletions
- Keep the solution as simple and clear as possible
- Use whatever technologies you are comfortable with for database and front end, but use Golang for backend