

Wallester Task

Create a simple web application having CRUD operations under customer object.

1. The application should have the following views.

- **1.1. Create customer view.**
 - A proper data validation should be implemented on this view
- **1.2. Edit customer view.**
 - A proper data validation should be implemented on this view
 - Please think how to resolve edit conflicts to not override changes of other application users who are changing the same user at the same time (it is not needed to implement user management in scope of this test exercise)
- **1.3. Search customers.**
 - By first and last names, which shows list of found customers
 - Each of the columns in this list should be sortable. The list should have pagination as well
- **1.4. Show customer view.** Display all customer data

2. Customer object should have at least the following fields.

- **First name** - string (required, max length 100)
- **Last name** - string (required, max length 100)
- **Birth date** - datetime (required, from 18 till 60 years)
- **Gender** - string (required, allowed values are *Male*, *Female*)
- **E-mail** - string (required, should be valid email)
- **Address** - string (optional, max length 200)

3. Application main requirements.

- **Go language** with **HTML** templates (html/template package)
- For data storage, please use **PostgreSQL**
 - It would be nice if you have some seed data (pre-fill with some customers to demonstrate search customers functionality)
- You will write unit testable code and it will be covered by unit tests when possible
 - We do not expect you to write UI tests
- Link of **GitHub repository** with your solution

4. Optional.

- You can use any **javascript** components for UI controls/validation/etc
 - But, please, do not use front end javascript frameworks like AngularJS, ReactJS and others
- It would be nice if the application will support multiple interface languages

5. References

- <https://tour.golang.org/welcome/1>
- <https://gobyexample.com>
- <https://guides.github.com/activities/hello-world>
- <https://guides.github.com/introduction/git-handbook>
- <https://guides.github.com>