Codefi Code Assignment: Golang

This task is all about design, the code architecture and implementation of a ready-to use solution to the given business problem. We intentionally formulate the task in broad terms. Use your own judgment on how to do it best.

Business problem

We want to be able to gather some information about our websites. We want to know how many internal and external links are present on a given page. We need a tool which will gather this information in a human and machine friendly format to allow further processing.

The task

Develop an application which counts the number of internal and external links for the given urls.

Requirements:

- The program should take a file containing a list of URLs to process - one on each line.
- The processing should be done concurrently as we expect to have quite a lot of items.
- The result must contain the following fields:
  - page_url
  - internal_links_num
  - external_links_num
  - success (bool)
  - error message

Recommendations:

- The solution should be well documented and well tested
- It can be either a CLI tool or a simple REST service.
- Don't introduce external dependencies without a good reason
- Use linters and other quality improvers
- Keep it simple

Use it as a chance to demonstrate your designing and coding skills, but don't complicate or over engineer too much. Treat it as a production-ready solution.

Use a private Github repository to create a Pull Request, so that it will be easier to review the task. You will be given the list of the logins to add as reviewers.

Please ask your recruiter inadvance by email if anything is unclear.