URL Shortener

Overview

Create a URL Shortener service that shortens, stores, and resolves URLs.

Example API

Shorten URL

```
curl 'http://localhost:1234/' \
 -H 'Content-Type: text/plain;charset=UTF-8' \
 --data-raw
'https://someverylongdomainnamehere.com/some/very/very/long/path/here
?foo=bar'
```

Returns "abcde"

Resolve URL

http://localhost:1234/abcde resolves and redirects to
https://someverylongdomainnamehere.com/some/very/very/long/path/here?foo=bar

Functional requirements

- shortened urls must be short enough (max 5 chars) so they can be easily remembered
- shortened urls must contain only latin letters and digits
- if once shortened, shortening the same URL 2+ times must result in the same short URL string
- the service should be able to store large amounts of URLs (~1 billion)

Technical requirements

- Implement the solution in the language of your choice.
- Using 3rd party modules and libraries is allowed, but not recommended.
- Provide simple documentation, at least how to set up & run.

Delivery expectations

- Implement the service following the requirements above.
- Publish the source code into the provided Chaos' internal Git server, located at http://tig.chaosgroup.com (registration is required, you may sign in with your Google profile).

Bonus points

- Add unit tests.
- Provide detailed documentation for the solution.

The solution will be judged in terms of completeness and quality.