

URL Shortener - Sample Task

Task

Write a simple URL shortener service. The site should allow a user to enter a valid URL and give back a shortened version using a human readable word or words as a substitute for their URL. For example, running on localhost, this might shorten https://www.hallnet.co.uk/blog/41-php-developers-wanted to http://localhost/aardvark.

Specification

- The word list used to shorten the URLs must be pulled from the EFF's short wordlist (https://www.eff.org/files/2016/09/08/eff_short_wordlist_2_0.txt).
- The site should allow duplicate URLs to be shortened, but should not allow duplicate shortened
 versions to be generated, i.e. https://www.hallnet.co.uk/blog/41-php-developers-wanted could be
 shortened many times, but the resulting short URL must always be unique. How you handle
 collisions when generating the shortened form is at your discretion, but we would be interested to
 hear your rationale for your given approach.
- A user should optionally be able to enter a short (140 character) description of their URL.
- When a shortened URL is visited, a counter for that URL should be incremented to indicate how many times the shortened link has been used.
- The main page for the site should show a listing of the 10 most recent shortened URLs, along with their descriptions.

Design / Branding

Download the following assets to use in the project:

- Mockup of the system layout.
- Document detailing the required colourscheme.
- A logo for the system.

Constraints

- The word list used to shorten urls MUST be pulled from the EFF's short wordlist (https://www.eff.org/files/2016/09/08/eff_short_wordlist_2_0.txt).
- Frameworks (e.g. Laravel, Symfony) SHOULD be used; our preference is the Laravel framework, but we will accept submissions in other suitably modern frameworks.
- Libraries, be they server side or client side, MAY be used so long as they do not effectively
 complete the entire task by themselves.

Response

Send responses either as compressed archived (zip, tar.gz etc) or via a GitHub or Bitbucket link to recruitment@hallnet.co.uk