**Requirements**

1. Implement actions to create a short URL based on a given full URL
2. If URL is not valid, the application returns an error message to the user
3. We want to be able to provide basic click metrics to our users for each URL they generate.
   1. Every time that someone clicks a short URL, it should record that click
   2. the record should include the user platform and browser detected from the user agent
4. We want to create a metrics panel for the user to view the stats for every short URL.
   1. The user should be able to see total clicks per day on the current month
   2. An additional chart with a breakdown of browsers and platforms
5. If someone tries to visit a invalid short URL then it should return a 404 page
6. Unit Tests should be created which cover the code that is added as applicable
7. Original URL format should be validated

**Spec for generating short URLs**

* Max length 5 character e.g. NELNT
* Allows upper and lower case characters
* Allows numbers
* Any non letter or number characters are not allowed, including whitespace
* original\_url and short\_url must be unique
* Original URL format should be validated