URL Shortener

The objective of this assignment is to create tiny url from large absolute url.

The project allows to create 62^{15} possible combination of tiny url in which length of unique key is configurable (Default 15).

Approach Document

Date: 30-09-2018

Version: 1.0

Table of Contents

Approach Document URL Shortener:	
To-Be Process:	
Prelude to the Process:	
Process Start:	
Api Details	
Document Revision History	

Approach Document URL Shortener:

To-Be Process:

Prelude to the Process:

- 1. Application is used to generate tiny and maintain the track of tiny url.
- 2. User will be allowed to maintain expiry of url and delete url if needed further in the system(soft delete).

Process Start:

- 1. User has to provide absolute url with expiry and description to generate tiny url.
- 2. 15 Digit (configurable) unique key will be generated based on alphanumeric value and special character. Which allowed 62^15 unique combination.
- 3. Unique Key contains (a-z, A-Z and 0-9) characters.
- 4. Each time unique key will be generated by system for example : http://localhost:<<port>>/ab124c3DE3d25gj
- 5. When all unique key utilized then system will append on more character inside
- 6. User will be allowed to delete the url which are not needed further.
- 7. User will be allowed to fetch all active tiny url at any point in time.

Api Details

#	Api	Method Type	Request / Response	Description
1	http://localhost:< <port>>/viewTinyUrl</port>	POST	Response: {"data":{"tinyUrlId":1,"tinyUrlList" :[{"tinyUrl":"http://localhost:< <p ort="">>//ab3cDE1t6245f6d ","description":"Description about tiny url","expiry":"15-45- 2018"},{"tinyUrlId":2,"tinyUrl":"ht tp://localhost:<<port>>//fg6g98E Dj765df5 t","description":"Description about tiny url","expiry":"01-10- 2018"}]},"status":"success","mess age":"Tiny Url fetched successfully"}</port></p>	It will fetch active tiny url from system

2	http://localhost:< <port>>/generateTi nyUrl</port>	POST	Request: {"data":{"absoluteUrl":"https://w ww.google.com/search?q=google &rlz=1C1CHBF_enIN772IN772&o q=google&aqs=chrome69i57j69i 60l2j0l3.730j0j7&sourceid=chrom e&ie=UTF-8","expiry":"05-11- 2018"}} Response: {"data":{"tinyUrl":"http://localho st:< <port>>/aabbd88576tfd4d"}," status":"success","message":"Tin y Url Created successfully!!!"}</port>	It will generate tiny url for inputted absolute url
3	http://localhost:< <port>>/editTinyUrl</port>	POST	Request: {"data":{"editTinyUrl":{"tinyUrlld" :"1","expiry":"06-12- 2018","description":""}} Response: {"status":"success","message":"Ti ny Url updated successfully!!!"}	It is used to update expiry and/or description of tiny url
4	http://localhost:< <port>>/deleteTiny Url</port>	POST	Request: {"data":{"tinyUrlld":[1,2]}} Response: {"status":"success","message":"Ti ny Url deleted successfully!!!"}	It is used to delete one or more tiny url
5	http://localhost:< <port>>/<<tinyurlke y="">></tinyurlke></port>	GET		It will be rendered to respective absolute url
6	http://localhost:< <port>>/config</port>	POST	Request: {"data":{"uniqueKeyLength":20}} Response: {"status":"success","message":"U nique Key length updated successfully!!!"}	It will allow user to increase the length of unique key

Document Revision History

#	Action	Ву	Date	Vers ion
1	Document Created	Manish Waghela	30-Sep-2018	1.0