URLify

The application generates the shortened version of a given URL. It also can retrieve the original URL from the given shortened URL (if it exists).

The application has 2 modules., **User Module** & **Admin Module**.

User Tab

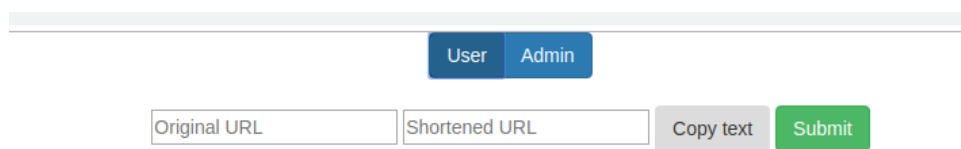The User Interface has Input text fields to take user input URLs.

- If the input URL is of valid format, it is processed further.
- If the input URL is of invalid format, error message is displayed.

Part I: User inputs valid original URL

- The URL is passed on to the controller, where the shortened form of the URL is computed if it does not already exists.
- If the URL already exists in the Database, the existing shortened URL is returned to the User.

Part II: User inputs valid Shortened URL (of the form *applau.se/xy*)

- The URL is passed on to the controller, where the original form of the URL is fetched if it already exists.
- If the URL doesn't exist in the Database, a error message is displayed.

User Page

| User | Admin |

| Original URL | Shortened URL | Copy text | Submit |

The URL entered is invalid

Invalid URL entered

| User | Admin |

| www.google.com | applau.se/00 | Copy text | Submit |

Valid Original URL entered

| User | Admin |

| applau.se/06 | http://amazon.com | Copy text | Submit |

Valid Shortened URL entered

Invalid Shortened URL entered

Admin Tab

The admin page displays all the records existing ordered by the number of calls made to the record.

| User | Admin |

URL Table

Sl. No.	Shortened URL	Original URL	Call Count	Latest Call Time
1	applau.se/04	http://facebook.com	3	Jan 30, 2019, 12:36:09 PM
2	applau.se/03	apple.com	2	Jan 30, 2019, 12:35:30 PM
3	applau.se/00	www.google.com	1	Jan 30, 2019, 12:34:54 PM
4	applau.se/01	http://www.google.com	1	Jan 30, 2019, 12:35:06 PM
5	applau.se/02	http://www.github.com	1	Jan 30, 2019, 12:35:13 PM

Admin page with records

User Admin

No Records exist

Admin page with no records to display

Technology Stack

User Interface:

- HTML, CSS, Javascript

Controller:

- Server: Apache Tomcat
- Java Project with Servlets

Persistence:

- MongoDB