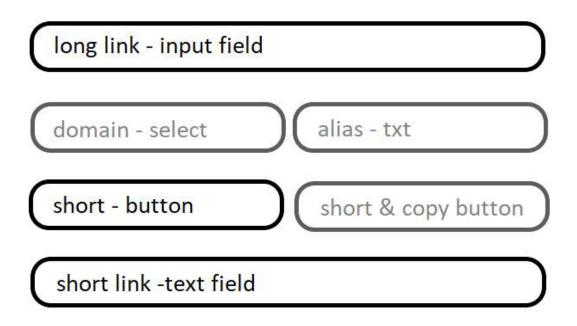
URL Shortener – web aplication that allows shortening links.

User interface – to achieve our functionality we need input filed, where we paste long link, a button "Short" and a text field, where shows our short link. This is the minimum. Good aplication could also have custiomization fields – domain (choose from list), alias – txt filed, to better fit. To make the application easier to use another button can be added – short and extra copy new short link.



When short link would be generated and used by Client (<a href="www.shortenedLinkDomain.com/linkID=1232d">www.shortenedLinkDomain.com/linkID=1232d</a>, then ID would be assigned with value from query parameter and passed to backend service which would return related long link. After receiving it, UI would call redirect method to open long link target).

Service would be responsible for:

- 1. Generating unique ID aligned with long link
- 2. Validation of prepared record (pair of ID and LongLink) to make sure ID is not occuring multiple times in database
- 3. Saving record in file or external DB (better solution)
- 4. Fetching record from file by ID received from UI (when it is launched in redirect mode)