URL-SHORTNER

Low-level Design

INeuron.ai

Full stack javaScript Bootcamp

# Abstract

URLs can get long, unattractive, an break when sent via e-mail. To shorten an Internet address, we proposed a secure URL shortening service which will take a long Web address and create a shorter address that will not break in an e-mail posting by using the Blackboard architecture. Security is considered in the proposed service to prevent hacking because shortened links may stop working or requests can be redirected to advertising websites and/or websites containing malware. The Blackboard is updated continuously by KS and it holds all the data concerning the URL shortening by storing all the intermediate solutions until the final solution of the problem of URL shortening is found. The knowledge sources that are proposed in the Blackboard system include: (URL Validation, URL

Statistics, and Secure URL shortening).

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