Webarch253 - Project Proposal

Team Members:

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Features that our group are planning to implement in the URL shortener project are: **(1) a bundle** (which will have **bookmarking tool**, a **stats chart of all the URLs** that will include total URLs and total hits, a **bulk short URL generator**, and **search** capabilities (if we have enough time), (**2) mobile interface site**, **(3) a favicon**, **(4) a command line tool** that will automatically generate links without having to go to the website, **(5) finally, a database** to store all the URLs that are created.

**Bundle:**

**Bookmarking tool** – will be a button the user can click to add the short url to their bookmarks.

**Stats chart** – will be a chart that logs all the URLs and tallies up hit counts from the short URLs.

**Bulk short URL generator** – will be a form that allows users to create multiple short URLs all at once.

**Search** – will allow users to search for long URLs by typing into the search bar strings from long URLs. Search results will show both the long URL and its short URL version.

**Mobile interface**. All pages on the website will be mobile friendly.

**Favicon**. The favicon will be shown on the tab of the browser. This will help users to easily locate the page if they have multiple tabs open.

**Command line tool**. We would like to implement a command line that will work with any of the command processors or show proof of concept. The idea is to allow users to create short URLs directly on the command line instead of going to the website.

**Database**. The database will store all the generated short URLs.

Some of the features we plan on implementing are new territory, it will be a big learning curve. In particular, the bookmarking tool we plan to implement is something we've never done before and we are unsure if we can connect the bookmark button to existing browsers. Connecting the different features of our website will also be a challenge. For example, we need to consider how our search bar will work with the database. Another challenge is implementation of the command line tool. We will need to see which of the existing command processors we can add our short URL generator to. Most of all, debugging our code to make all of our features work will take up a lot of time.