

PHQ Technical Design Document

Project Description

The purpose of the application is to allow a user to add, edit, delete and view a list of bookmark links.

The application must validate bookmark links which should include non-http urls (e.g. google.com). The user will be displayed a thank you message with details of their added bookmark and the ability to return to the overview page.

The added bookmarks will be appended to the existing list and the list will be stored so that it persists on reload. Navigable pagination is required to handle multiple pages with a limit of 20 entries per page.

Project Design

The project will be built using the Angular 8 framework with bootstrap used for styling. It will be built using a simple structure with main 'overview' template and component handling overview functionality and the main view. The thank you page will be split into a separate component that will show/hide depending on the form state. The pagination will be split out into a separate component to simplify the application further.

A bookmark service will handle the storage and manipulation of data in the application including edit, delete and add entries. Local storage will be used to store the state during a refresh and a local observable array will handle the local state and reactive changes to the bookmarks in the overview.

Application Structure

- App
 - Page
 - Overview
 - Components
 - Thank you page
 - Pagination
 - Service
 - Bookmark

Limitations

No state preservation over machine or session end however that would require some type of database/datastore.

Future Additions

- Add ability to change the order of bookmark entries.
- Add database and authentication
- Expand the data attached to the bookmark to handle user data and create a model for a bookmark entry.