

Daniel J. Oliveros Guerra

Christopher Aram Swayne

Dalton Gilmore

Wajeb Gharibi

CS 456

12/08/2020

Semester project: Web To-do list

Proposal

Problem

Due to current events, many students have had trouble organizing their school work. Office workers have had trouble with maintaining productivity. A way to mitigate these problems is to use to-do list applications. Most to-do list applications have gone mobile with a lot of extra features. The problem using a mobile application is that it will encourage the user to use their phone, which may become a distraction defeating the purpose of the to-do list. Ideally, you want to make one such that it does not distract its users.

Target Users

Anyone wishing to keep track of their tasks, activities, etc.

Solution

Design a simple to-do list web application for users to be able to keep track of their tasks. The benefit is that the users can have their to-do list open on a browser tab, without needing to rely on their phone to keep track of their activities, mitigating the desire to using the phone as a distraction.

User Analysis

Users tend to be very dependent on technology rather than use it as a tool. This leads them to waste time and get distracted during productivity hours.

Task Analysis

We would like to create an application that will serve as a tool to help users keep track of their work without causing any unnecessary temptations to get distracted.

Project Report

Title

To-do list web application

Problem

Due to current events, many students have had trouble organizing their school work. Office workers have had trouble with maintaining productivity. A way to mitigate these problems is to use to-do list applications. Most to-do list applications have gone mobile with a lot of extra features. The problem using a mobile application is that it will encourage the user to use their phone, which may become a distraction defeating the purpose of the to-do list. Ideally, you want to make one such that it does not distract its users.

Users

The software is open for everyone to use, and we hope that we can positively impact its users with organized productivity. This may negatively impact other to-do list mobile applications, should our web application succeed.

Tasks

1. Goal: Ability to add tasks to the list

Preconditions: user is aware of what task needs to be done

Exceptions: While there is almost a 0% possibility that the task may not be registered, it is possible.

This is the main task the application will be performing. The user will input a string in the white box, then click “add” to add the string into the list as a task. This is the task with the highest frequency of use, as the application would not be functional without it.

2. Goal: Ability to remove a task from the list

Preconditions: There must be a task present in the list.

Exceptions: Task may not be removed from the list, possibly due to server error.

This task allows the user to remove the task (string) from the list, therefore opening more space for other tasks, or simply removing tasks that are no longer considered necessary.

3. Goal: Mark a task as completed without removing by scratching it

Preconditions: There must be a task present to scratch.

Exceptions: The task may not be scratched, possibly due to a server error or network miscommunication.

This task allows the user to “scratch” the task (string), giving the idea that the task was completed. This is helpful to keep track of what tasks have been completed in the list without having the need to remove it.

Problem Scenarios

1. A user arriving at their work station will open the to-do list web application, alongside their other work software. They will consider the tasks needed to be done for today, and will input them in the to-do list application, one by one. The tasks will stay in that tab, ensuring the reliability of the data.

2. As the day goes, the user will continue to complete their daily tasks. Once a task is completed, the user will click on a task, which will mark it as completed (scratched.) This will help the user keep track of completed and uncompleted tasks.
3. Some tasks may have not been necessary for that day specifically, but the user already wrote them in their to-do list. The user has the option to click on the “x” button right next to a task, which will remove the task completely out of the to-do list. Keep in mind, this is not the same as marking a task as completed. It will literally remove the task, whether it was completed or not.
4. The aim of the application is to encourage maximum use, whilst being minimally intrusive. It requires the user to keep the application up, and in the background, so that the user can ensure they have easy access to it, whilst being minimally invasive, and only on a Firefox or Chrome tab.