

# Personalized Bookmark Search Engine

## CS 410 Text Information Systems (Fall 2021)

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### Team PBSE: Progress Report

## 1 Overview

During this initial phase, our team spent a large amount of time on architecture design and researching suitable frameworks and libraries to be used in our project. After finalizing the details and requirements of our project, we allocated specific tasks to each team member based on our strengths and experiences. We are on track to completing our project before the submission deadline.

## 2 Task Statuses

Below is the list of tasks and their respective completion statuses. Tasks that are currently **under development** are labelled as **WIP** (Work in Progress).

Task	Completion Status
<b>Frontend (Chrome Extension)</b>	
1 Manifest File	<b>Completed</b>
2 OAuth Authentication Component	<i>WIP (50% Completed)</i>
3 Search Component	<i>Pending</i>
4 Results Component	<i>Pending</i>
5 Styling	<i>Pending</i>
<b>Backend Server</b>	
1 Page Crawler	<b>Completed</b>
2 Managing User Bookmark & Content Indexes	<i>WIP (10% Done)</i>
3 Searching	<i>WIP (60% Done)</i>
4 User Management APIs	<i>Pending</i>
5 Application API	<b>Completed</b>
6 Integration & Deployment	<i>Pending</i>
7 Accuracy Test	<i>Pending</i>
<b>Documentation</b>	
1 Usage & Architecture Doc	<i>Pending</i>
2 Tutorial Presentation	<i>Pending</i>

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### 3 Challenges

The only challenge that our team is facing so far is in developing the chrome extension, as none of us has worked on it before. However, this is not a major blocker for us since the chrome extension API is well documented we would be able to figure our way out eventually.

### 4 Discussions on the Reviewers Feedbacks

Below are the feedback that we have received, and our responses to those feedback.

1. *Feedback:* The proposal didn't have detail on how the page content data are being stored as well as how the data is being retrieved after the user bookmark a page.

*Response:* The page content data are indexed as plain text files, and the backend creates mappings of these content files to users internally. When the search function is called by a specific user, the backend will fetch the indexed files mapped to that user to perform the search.

2. *Feedback:* I feel that the report should have more details on how their approach looks like for evaluating that their system is working as expected.

*Response:* Manual testing will be done to ensure that all the functions of the chrome extension are working as intended. If there is sufficient time, we will also write unit tests for our backend functions and frontend components. The search algorithm will be evaluated using the cranfield evaluation methodology, where the relevant judgements for the test set will be collected from our family members and friends.