SPP7
Interactive (HI-Fi) Prototype

CMPS 3141: Human Computer Interface Group 1

MELO

Team Melo

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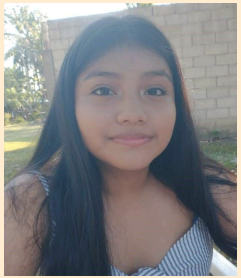

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Programming Lead

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Value Proposition

Melo provides a simplified and intuitive interface for displaying transfer data at the University of Belize, helping students easily interpret and compare their course options for a smoother academic planning experience.

Problem

Many users faced challenges when using the University of Belize's existing transfer matrix. Its inefficiency and poor navigation cause confusion and delays for students trying to transfer credits from other institutions.

Solution

Melo aims to address all these issues by recreating the transfer matrix to be more streamlined and user-friendly. This will help students navigate the transfer process more effectively, make informed academic decisions, and reduce the workload for university staff, ultimately improving the overall process.

Discussion Topics

01 Heuristic Evaluation Results

02 Overview of Revised Design

03 Prototype Implementation Status

04 Demonstration

05 Summary

01

Heuristic Evaluation Results

Severity 4:

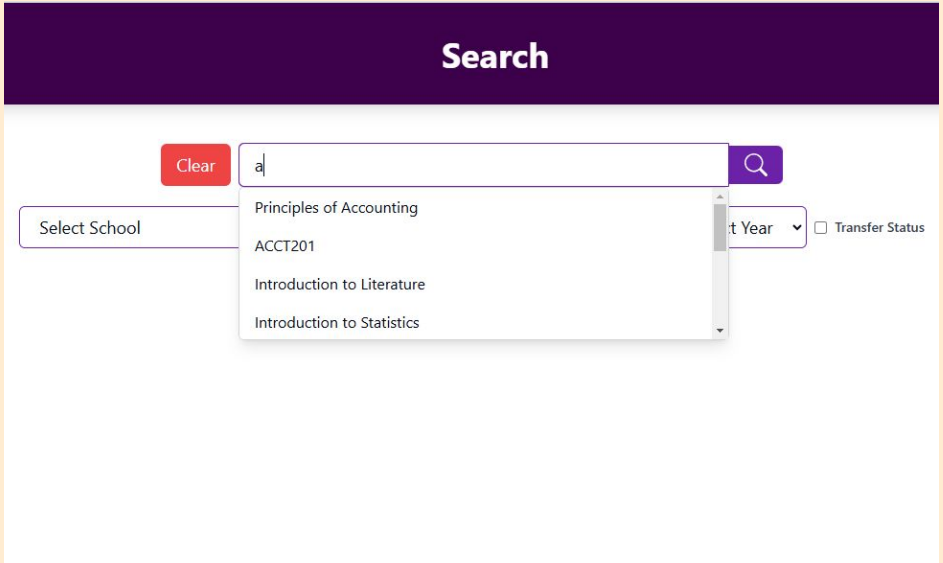
"User doesn't notice the message icon at the bottom of the interface."

Solution:
Relocate the message icon to a more visible area on the interface and enlarge the icon.

Severity 6:

"User doesn't remember the exact code or course name to input."

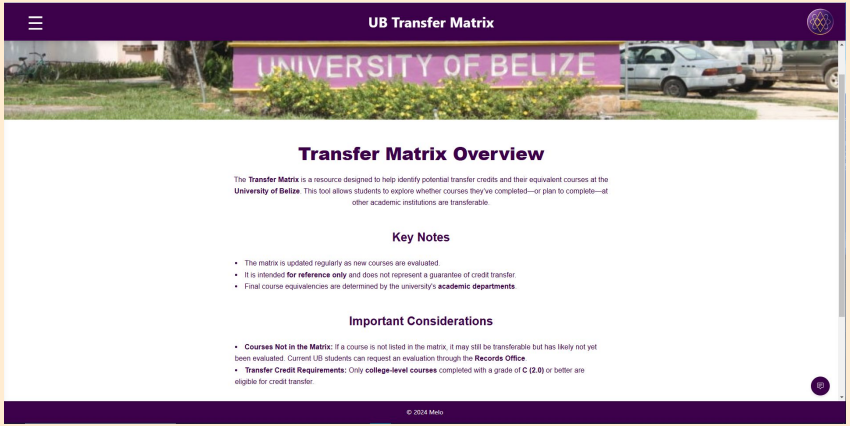
Solution:
Provide an autofill/suggestion function that provides the user with possible course codes and course names.



Severity 1:

"Home page welcome text is too crowded and comes across as wordy."

Solution:
Re-structure the layout and shorten the text. Provide brief information and keypoints.



02

Overview of Revised Design

Overview of Revised Design

1. Redesigned layout for better feature visibility.
2. Additional functionality for a more helpful search experience. Assistance functions.
3. Restructured typography.

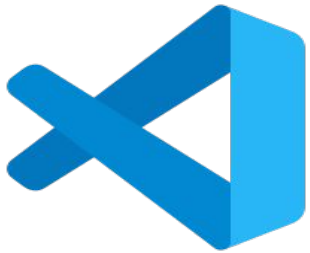
03

Prototype Implementation Status

Tools Being used:

Github

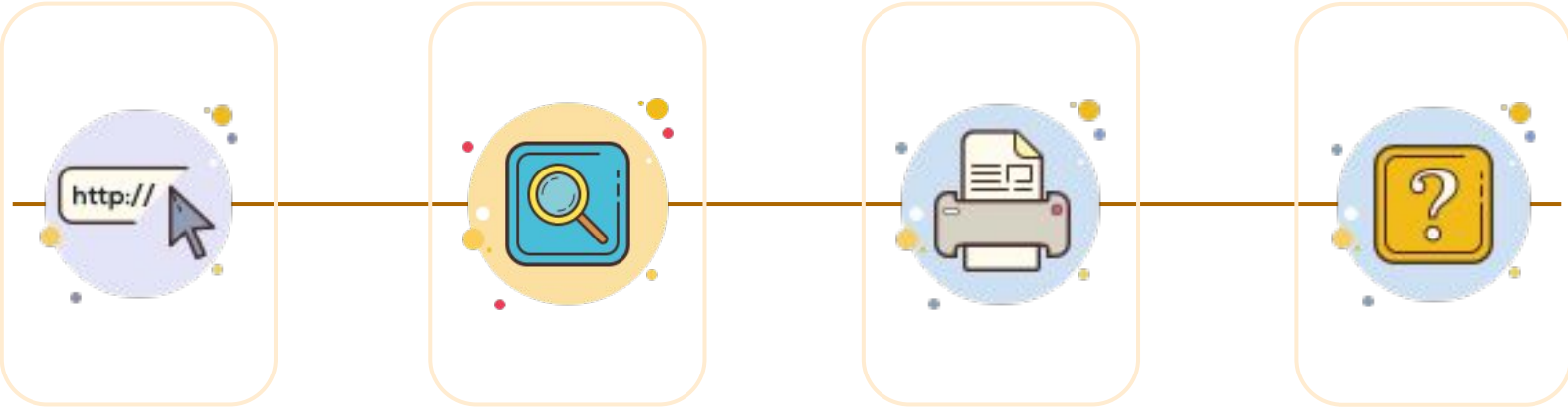
Visual Studio Code



Svelte DevKit

Tools Being used:

Useful Areas	Not Useful Areas
• Github allowed efficient version control and seamless collaboration on projects. • Visual Studio Code offered powerful extensibility with debugging and a built-in terminal. • Svelte DevKit Simplified building reactive applications with minimal boilerplate and efficient bundling.	• Reliance on internet connectivity.



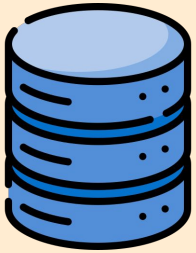
Minimalist/ Modernized UI

Simplified & Dynamic search page

Print Feature

Assistance Features

Implemented Features



Designated Database

Admin Privileges

More Specific Filters

Enhance Error Recovery

Unimplemented Features & Plans

Hard-Code Data

Data Stored in a JSON File

- This data included hypothetical courses to be transferred from multiple feeder institutions.
- This limited functionality to a predefined dataset.

Wizard of Oz Techniques

- Users were guided to interact with a searchable dataset that matched the dummy data.
- The system appeared automated, but responses were limited to the predefined dataset.

Issues/ Questions

- No access to actual database for testing. The current display was built on our perception of the data using a hardcode json file.
- How can we better present the information to the users and enhance their experience both now and in the future?
- What other features might the user need in future sessions?

04

Demonstration

05

Summary

Summary

- Heuristic evaluation identified discrepancies in the current prototype, enabling swift resolutions.
- The prototype was built using SvelteKit and its supported languages, enabling seamless collaboration and efficient development.
- The prototype executes its 3 main tasks while providing clear labels, indicators and hints as to how to use its features.

THANK YOU

MELO