

Mozzi



Group 3: Nathan Gonzales, Bryant Garcia, Simon Mai, Calvin Mateo

How We Decided on This Project

- As computer science majors, anything that could potentially make computation faster is a must.
- We wanted to make an extension that could do that for the user while browsing the internet.
- What we decided on was a way to provide quick results and shorten the amount of time spent on clicking a search engine and typing questions for the results
- Our target audience for the extension could range from children to the elderly

Personas(Who is the app for)

Charlotte Linlin



Age
Age 65 or older

Highest Level of Education
High school Degree

Occupation

Retired woman

Goals:

Look up current news stories

Tools Needed

As Charlotte is not familiar with the internet, She can use Mozzi to simply say what she wants to look up.

"Current events in the US"

"Who is Elon Musk?"

Biggest Challenges

Not tech savvy

Difficulty reading keyboard

Unable to use phone

Take Away

Charlotte is able to seamlessly search up whatever she desires without being overwhelmed with the complexity of the internet.



Job Title
Student

Age
Under 18 years

Highest Level of Education
High School

Occupation

Student that plays Basket Ball in highschool and lives at home with parents

Goals:

Go to school and graduate highschool

Job Responsibilities

Bob can grasp the concept of mathematical theory but waste a lot of time computing simple multiplication by hand and checking the scores of every game Basket Ball game. He's usually google searching one thing or another.

Biggest Challenges

- Resources
- Problem Solving & Decision Making
- Time management

Take Away

Bob is able to complete his homework by utilizing his time more efficiently by using Mozi and making quick computations. He can also search the score of his favorite teams in an instant.

Tools They Need to Do Their Job

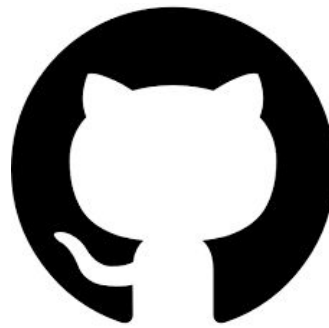
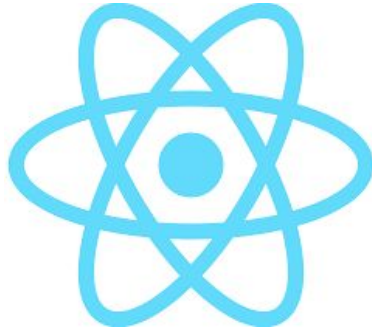
Bob needs to more efficient in computation and time management. With Mozzi, he can speak his question into a search engine that will render his solution.

"What is 250 x 250?"

"What was the score of the Laker game Last night"

Tools used(jira, REACT etc)

- Jira for assigning tasks
- REACT for building the Speech-to-Text
- Github for code sharing
- Discord for communicating amongst the team



Milestones

Phase I : Record voice for extension

November 10, 2022

Phase II : Turn Speech to Text

November 10, 2022

Phase III : Render text to search engine

December 6, 2022

Phase IV : Make compatible with Mozilla

Development browser.

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Thanks for your email, happy to hear from you. I think your idea sounds fun.

> Is this idea feasible for the student learning outcome of the course?

It depends a bit on your group's starting skill level. To me it sounds like a great project if you already have some experience with the related topics.

There's a lot of great learning opportunities in a project like this for sure.

> Can we use Bing for our search engine and Is there a conflict of interest if we use google?

Use the tools that best fit your project. No conflict of interest there.

> Do you have any advice or suggestions in the approach we should take?

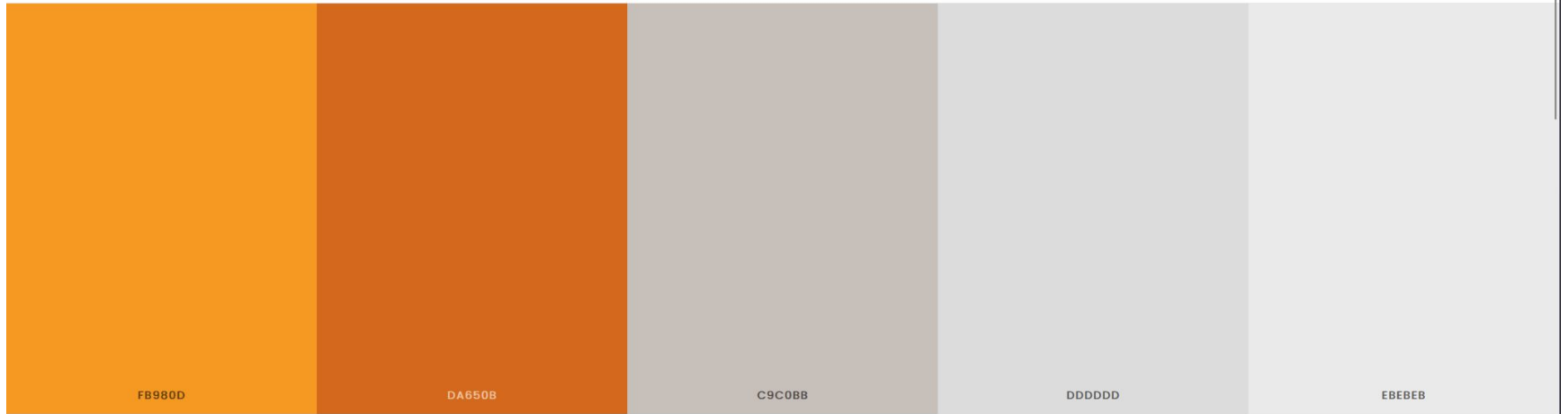
My general advice is to break the project into small enough parts, make each of them simple at first, then make them work and then start adding functionality and polish. In this case, you'd have a few parts: 1) recording the user audio, 2) processing it to text and 3) performing the search. Find out what's the minimum required to make each part work on their own, then how to connect them and build something functional even if that functionality is very barebones. At that point, you have something that works and you can start adding things and making the user experience great.

I hope these give you some thoughts on how to start working on it. I'm eager to hear how it goes!

Best,
Juhis

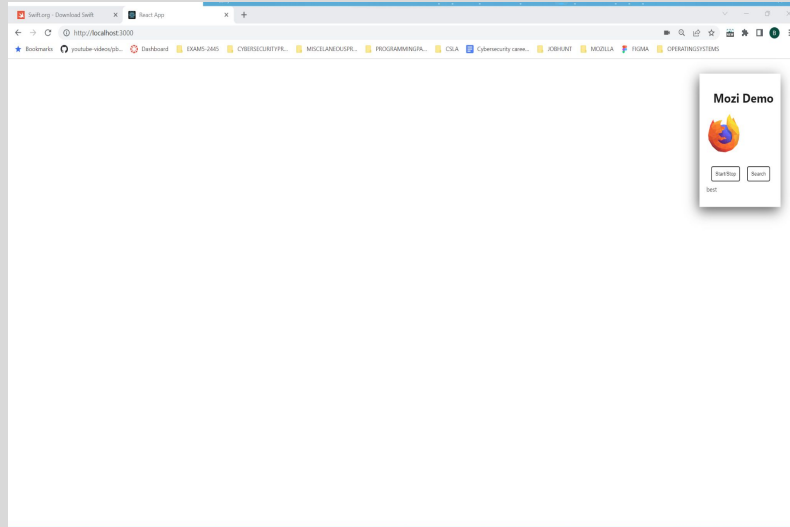
Thank you Juhis!

Design Pallet

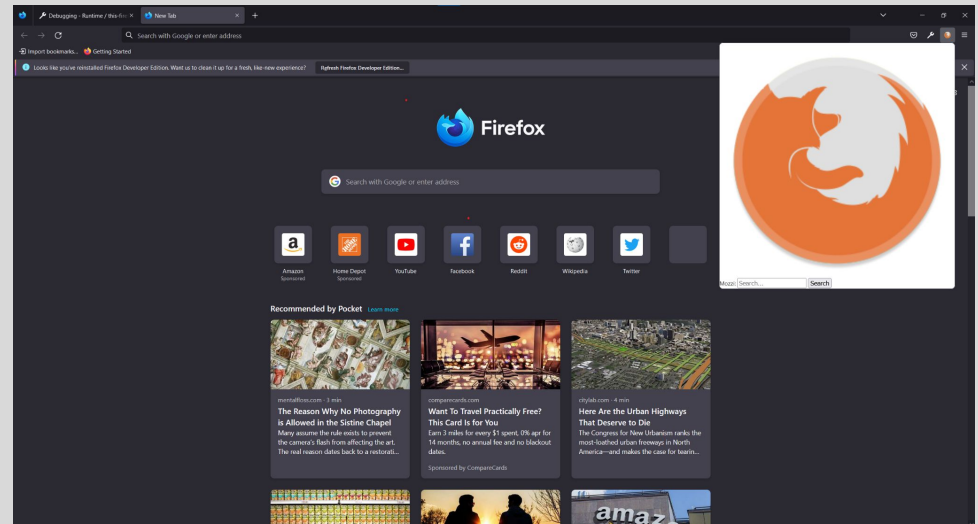


Rough Implementation designs

Design on November 10, 2022



Designed on November 28, 2022



PHASE II DESIGNS

Implementation of Speech-to-Text



Figma Link:

<https://www.figma.com/proto/WysKG1ZDXIxQ9KrnEpOywI/Figma-Implementation?node-id=7%3A201&scaling=min-zoom&page-id=0%3A1&starting-point-node-id=1%3A2>

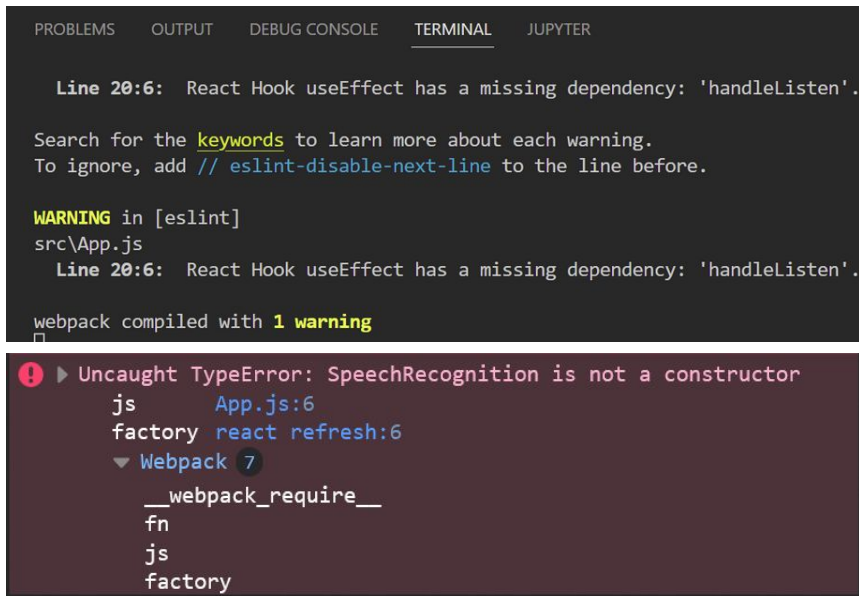
Implementation of Google Search

- Wanted a new tab to open when searching through Speech-to-Text
- The Speech-to-Text will be activated first and the text will be put in the search bar
- Then the user will click the search button or hit enter and a new tab will open on google with results to the text

Search

Difficulties

- Use of functions from libraries
- REACT updates
- Inconsistent results



The screenshot shows a code editor with two panels. The top panel, titled 'TERMINAL', displays an ESLint warning: 'Line 20:6: React Hook useEffect has a missing dependency: 'handleListen''. It suggests searching for keywords to learn more or adding // eslint-disable-next-line to ignore. The bottom panel shows a runtime error: 'Uncaught TypeError: SpeechRecognition is not a constructor'. The error stack includes 'App.js:6', 'react refresh:6', and 'Webpack 7'.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER

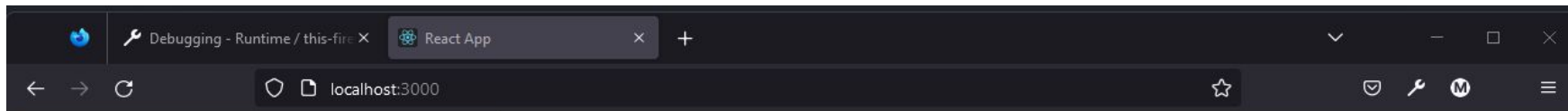
Line 20:6: React Hook useEffect has a missing dependency: 'handleListen'.

Search for the keywords to learn more about each warning.
To ignore, add // eslint-disable-next-line to the line before.

WARNING in [eslint]
src\App.js
  Line 20:6: React Hook useEffect has a missing dependency: 'handleListen'.

webpack compiled with 1 warning

! ▶ Uncaught TypeError: SpeechRecognition is not a constructor
js      App.js:6
factory react refresh:6
▼ Webpack 7
  __webpack_require__
  fn
  js
  factory
```



Your browser does not support This Extension.



DEMO

Thank You For Listening!