



Team 9 CSE 210 Starting Pitch Check-In

Greenfield: Developer Journal

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BRAINSTORMING



General Decision: Greenfield vs Brownfield

Initially discussed whether we each preferred to do Greenfield or Brownfield.



Narrow Down: Possible Greenfield and Brownfield Projects

Each came up with a Greenfield project idea and found a repository that could be used for a Brownfield project. We all presented our ideas at a team meeting.



Final Decision: Decided Project Idea

Based on the Greenfield and Brownfield ideas presented, we each voted for our top 3 choices. The idea with the most votes won.

BRAINSTORMING DOCUMENTS

Link:

https://docs.google.com/spreadsheets/d/1hTcsXCb_Tnw7rC09-U6-8gYkP_t-yqE_jxo8_XCBJc/edit?usp=sharing

Brownfield Projects Brainstorm												
File Edit View Insert Format Data Tools Extensions Help												
Q Menu 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%												
A B C D E F G H I J K L												
	Name	GitHub Repo Name	GitHub Repo Link	Size of Project (Number of Lines)	Size of Project (Number of Files)	Dependencies? (Preferably No / Less is Better)	Database Requirement	When was last updated? (Last commit)	Does it run?	What languages does it use? Would you need to learn new languages?	Issues - New features that we could include	Any risks?
1											Enhance UX. Add more customization options for entries. Add Analytics. Track user engagement and most-used features. Performance Optimization. Optimize the snapshot generation for mobile.	
2	Nyze	zen-note	https://github.com/TheOpenInnovator/Zen-Note	30, 40, 30, 650, 1013	9 .JS, CSS, HTML	NO (stores in browser local storage)		3 days ago	YES	JS, CSS, HTML. No additional learning required		
3												
4	Krishna	charboard	https://github.com/ElMakel/charboard-ai	151,120,295	3 HTML,CSS, JS	NO		1 year ago	YES	No additional learning	Fill up the remaining pages and making the pages open in the same window instead of redirecting to a different page	
5		hio-productivity	https://github.com/temahshah/hio-productivity-of	83,127,82,56,46,42,48	7 HTML,CSS, JS	NO		3 years ago	YES	No additional learning	make it as one stop solution for a developer to avoid downloading/uploading multiple pages	
6	Lucas	/Karlan	https://github.com/hikarikanban/karlan-roadmap-ai	JS: 50, 608; CSS: 159;	11	User HTML, CSS, JS. Dev: "17.0.0", "less-css-0", "4.3.0", "bulma", "5.0.0", "jail", "28.8.7", "express-4", "5.2.2", "ugly-es-13.3.0"	Doesn't store	3 years ago	Demo is working	A decent amount of dev dependencies, including tests from js, make use of karlan boards make css quite essential to learn.	28 open issues: https://github.com/hikarikanban/issues?open=&page=1&q=issue+is+open	relatively large codebase, will need time to understand what is going on
7						"dependencies": { "date-fns": "2.21.1", "uuid": "7.0.3" }						
8	Juhak	CalendarJS	https://github.com/Pfynuce/CalendarJS	JS:55, 51, 51, 106, 49, 28; CSS: 421	13		NO(local storage)	2 years ago	yes	no additional learning.		
9	Jay	fitness tracker	Github_jefferyfitnessTracker_JavaScript	< 700	express, mongodb, morgan, mongoose (html, css, js, nodejs)		uses mongodb	4 years ago		familiarized with mongoose, morgan	better ui, include goals for the day/week, make into some hybrid that includes diet-tracking	
10	Brandon	dashboard	https://github.com/bvimesse/dashboard https://github.com/bvimesse/google-calendar-cl		TS, JS, CSS, HTML							
11		google-calendar-clone-variant				HTML, CSS, JS						
12											Add alternative layouts for viewing To-Do's that have been added? Like Gantt Chart or Kanban Board layout?	
13											Add due dates/times to the items?	
14	Anna	ToDoList	https://github.com/duhannekanan/ToDoList	2 CSS Files (36, 380); 2 JS Files (203, 2); 1 HTML (66)	2 CSS Files, 2 JS Files, 1 HTML	JS, CSS, HTML	No, supports local storage	3 years ago	YES	HTML, JS, CSS	Github README also details some of the features they were thinking of adding 3 years ago	

BRAINSTORMING DOCUMENTS

Link:

<https://docs.google.com/spreadsheets/d/1I1g5oOd78uYRMzXhopb82pcPTUS9FmqjcRy4druegTU/edit?usp=sharing>

Project Vote

B I U G X

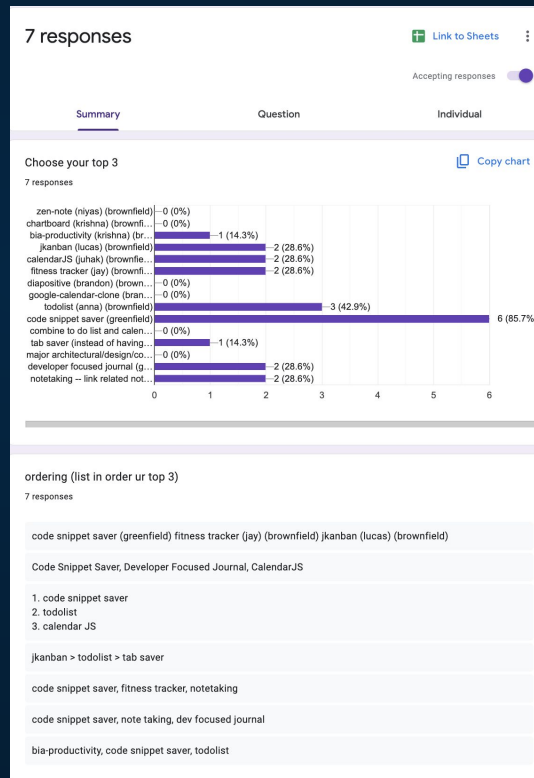
Brownfield and greenfield project options

Choose your top 3 *

- ☐ zen-note (niyas) (brownfield)
- ☐ chartboard (krishna) (brownfield)
- ☐ bia-productivity (krishna) (brownfield)
- ☐ jkanban (lucas) (brownfield)
- ☐ calendarJS (juhak) (brownfield)
- ☐ fitness tracker (jay) (brownfield)
- ☐ diapositive (brandon) (brownfield)
- ☐ google-calendar-clone (brandon) (brownfield)
- ☐ todolist (anna) (brownfield)
- ☐ code snippet saver (greenfield)
- ☐ combine to do list and calendar (greenfield)
- ☐ tab saver (instead of having to keep searching for tabs and going between them) (greenfield)
- ☐ major architectural/design/code change tracker (greenfield)
- ☐ developer focused journal (greenfield)
- ☐ notetaking - link related notes back to each other (greenfield)

ordering (list in order ur top 3) *

Long answer text





STATEMENT OF PURPOSE

We want to create an application for developers who are frustrated with current applications that are too complex and disorganized so that they can easily save, manage and organize multiple code snippets along with annotations.

USER PERSONAS



Alice the Student

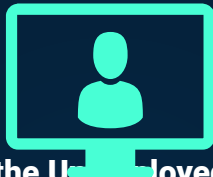
Alice is a current CS student who wants to save snippets of code from her lectures.

Wants/Needs:

- Automatic code formatting
- Tagging system
- Search functionality
- Save any code (different language) from different classes

Frustrations:

- Uses Google docs and does not have code formatting (syntax highlighting)
- Has to do formatting by herself
- Poor organization
- Hard to search for particular code



Jason the Unemployed New Grad

Jason is an unemployed new graduate and he wants to save his leetcode solutions.

Wants/Needs:

- Simple way to save code
- Write notes about the code
- Search and tagging functionality
- Add figures from leetcode question
- Pin important notes

Frustrations:

- Currently uses Obsidian and finds it too complex
- Spending more time learning how to use Obsidian than doing leetcode



Bob the Researcher

Bob is a researcher and he wants to save ideas that he can revisit later.

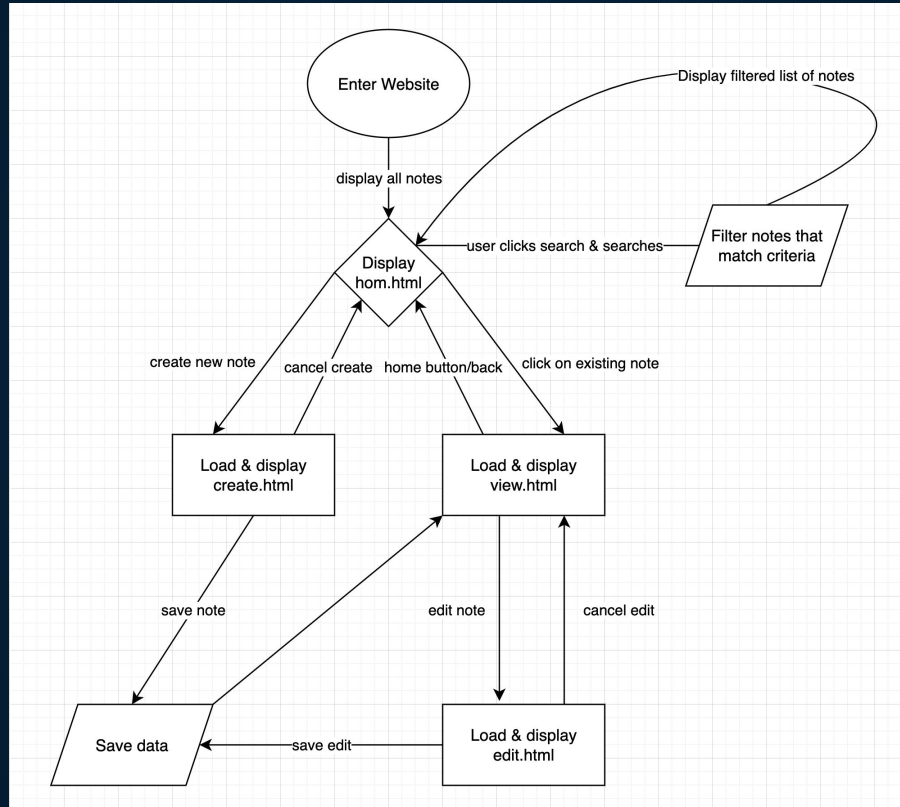
Wants/Needs:

- List of notes to revisit/ways to track unfinished notes
- Easily edit existing notes
- Clear organization/one place to save everything

Frustrations:

- Can't keep track of ideas/notes that he wants to revisit
- Currently his ideas are saved/scattered in random places

SYSTEM DIAGRAM



RISKS

- **Limited web development experience**
 - May take longer to develop
- **Possible need to use dependencies to implement features**
 - Would have to get permission
- **Not implementing core functionality**
- **Splitting work between team members**
- **Time availability of team members**
- **TDD: creating tests and associated overhead**
- **Documentation/GitHub repository management**
- **Finding people to get feedback from regarding our application who match the created user personas**

RABBIT HOLES

- Too much time spent trying to implement search feature
- Implementing features (e.g., search, formatting) in a more complex way than needed
- Backend implementation of storage
- Deciding between edit vs. view vs. combining to one page