Team 2 - King Julian, project "Dev Work Journal"

Ideas

Features:

- Support code snippets
- Markdown availability for styling
- Allow multiple entries for one day
- Some templates + allowed customizability
- Allow users to add supporting images / screenshots
- Quick search for entries
- Some display to quickly skim past entries
- GitHub connection
- Document generator (list of entries)
- Group multiple day journals under a heading for specific project. (tagging)
- Use different colors to depict how serious is the task
- Various widgets (progress bar, rating projects, checkboxes, underline, if something is done then draw the line through the text)
- Progress tracker for work related tasks
- Ability to switch between week and month view of the calendar
- Container for unorganized/undated ideas

Implementation of Application:

- Offline web app
- Mobile responsiveness?

User Stories

- As a user, I want to be able to easily document my work so that it does not take too much time
- As a user, I want to upload code snippets so I can exactly show what I worked on
- As a user, I want to easily aggregate all the work that I have done to show a superior to get a raise/promotion
- As a user I want to be able to easily search up my past entries that I have added.
- As a user I want to group entries together if they follow similar topics to make searching and demonstrating specific work easier
- As a user I want to be able to add images so that I can have visuals tied into the work I do
- As a user I want the information to be secure so I do not have to worry about the company being concerned with the protection of their codebase
- As a user, I want to be able to write down the bugs that I encounter and then be able to write their solution, so that I don't have to worry about solving it again

Research
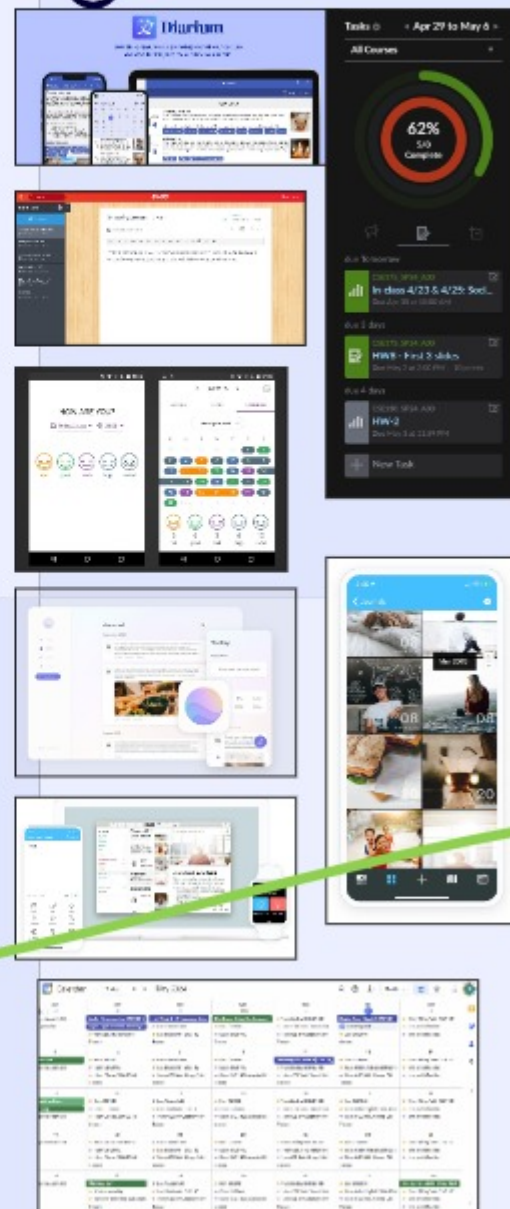
Offline vs. Online:

Offline:

- No need for login
- Local secure information to not leak company code
- Multiple device cooperation difficult

Online:

- Authentication needed
- Cryptography to store information
- Multiple devices easily accessible
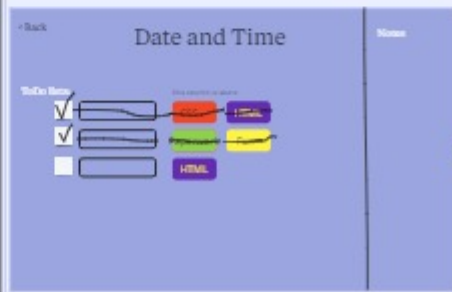- Cloud storage

Existing products

User Personas

Mark Hoytt, 20, GameDev
Loves RedBull, insomniac

Laura Pitman, 27, FrontEnd
Wanted to open a flower botique

Fernando Alonso, 55, BackEnd
Likes to intimidate interns

Lila Bayt, 45, SoftwareDev
Does too much for her paycheque

Implementation Ideas

- When we create a new document, the user should already see an empty template
- So it is easier to note down.
- Write pros and cons from other journal apps and websites
- Add reflection part

Cost Factors

What are the main cost factors to develop, market, sell, and service the product?

User personas

WebDev Intern

- Name: Mark Hoyt
- Age: 20
- Occupation: Junior college attending student who just landed a WebDev internship after taking CSE110
- Challenges:
  - Finding the time and motivation to regularly do LeetCode
  - Doesn't remember to update his existing websites and checkup on them
  - Needs help with task prioritization based on due dates so he can manage college and work
  - Needs a place to keep track of all the feedback/reflections he gets
- User preferences:
  - Wants a place to keep track of his reflections
  - Wants to organize his tasks based on priority and connect reminders to his calendar
  - Wants to mark time blocks for his calandar to alert him to do tasks/LeetCode
  - Way to quickly show his work to supervisors

Back End

- Name: Fernando Alonso
- Age: 55
- Occupation: Senior Back End Developer, a litle impatient and loves expensive fine diners
- Challenges:
  - Keep track of all the projects they are working/advising on
  - Need to make reports on all subordinates for the HR
  - High pressure due to being a well trusted individual to guide team when things go wrong so needs reminders to take breaks
  - Needs to be active on repositories to give feedback
- User Preferences:
  - Quick additions, doesn't have time for things to take too long
  - Ability to organize labels
  - Ability to import the labels / tasks of others
  - Labels to distinguish the many tasks they are preparing
  - Minimalistic UI
  - Upload key code snippets
  - Establish priority/urgency

Software Developer

- Name: Lila Bayt
- Age: 45
- Occupation: Software Developer in the same company for 15 years, kinda like the backbone of the company
- Challenges:
  - Effectively collaborating with colleagues, needs a place to track progress of mutiple competitor companies
  - Needs to find time to interview new project team memebers and take feedback from the existing ones
  - Coordinating entries and updates across global teams in different time zones.
- User preferences:
  - Lila values features that track progress and identify trends
  - Prefers a clean, distraction free interface that focuses on functionality and ease of use.
  - Support for shared entries and collaborative editing for team projects.

Front End freelancer

- Name: Laura Pittman
- Age: 27
- Occupation: UI/UX Designer and Front End Developer, super chill and loves simle art and museum
- Challenges:
  - Extremely visual job, needs ways to develop and demonstrate accomplished work
  - Needs a place to plan organizations of websites and track them
  - Struggles with keeping track of recent design boards
  - Has to document and plan how to meet the high visual interactivity humans desire
- User Preferences
  - Ability to display images/designs that are being developed
  - Well-designed, sleek look
  - Easy to use and intuitive UI
  - Customizability of views and templates
  - No clutter, clear meaning

Pitch development

Primary Tasks

- CRUD tasks
- way to use labels to indicate urgency and seperation of different tasks
- A calender
- Checkboxes
- Task tracker
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Tasks if time permits

If we have time then we would expand and add the following:

- add markdown and save the file as pdf
- copy code snippet feature
- Ability to add images to help assist code with a screenshot of what the website/output looks like.
- Search Feature (Filtering)
- Different themes
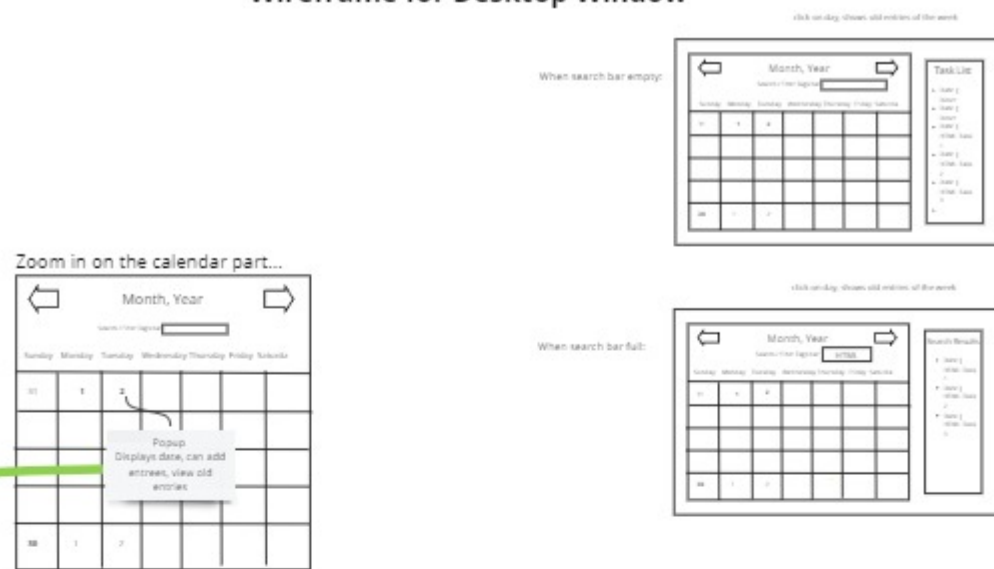- Animations
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Rabbit holes

- markdown and fancy saving feature, don't know how to use it.
  - Fall back to input basic text
- Save basic text instead of images and other files
- ElectronJS can fail and have strange behaviors
  - So, use other tools (Meteor, nativefier, and webui) to mitigate that risk
- Transferring data from one device to another
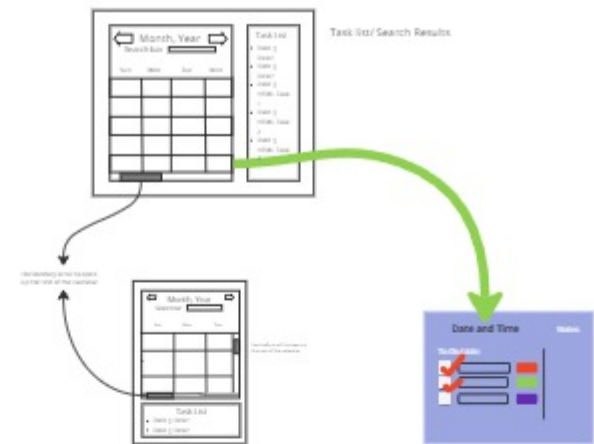 - fall back: zip the file and send all the data

ADR

- Offline w/ Electron JS
- Calendar over list to display things
- Github Actions stack, will all use Prettier
- Priority Labels & Filtering vs Searching Priority

Wireframe for Desktop Window

click on day, shows old entries of the week

When search bar empty:

Month, Year

Task List

Zoom in on the calendar part...

Month, Year

Search / Filter (optional)

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Popup
Displays date, can add
entrees, view old
entries

click on day, shows old entries of the week

When search bar full:

Month, Year

Search Results

Wireframe for Smaller Desktop Window

Month, Year

Task List

Task list/ Search Results

Month, Year

Task List

Date and Time

Alternative

Month, Year

Filter Area

Task List