

## Card Project Proposal

**Concept:** Building custom greeting cards!

**Title (subject to change):** Card Create

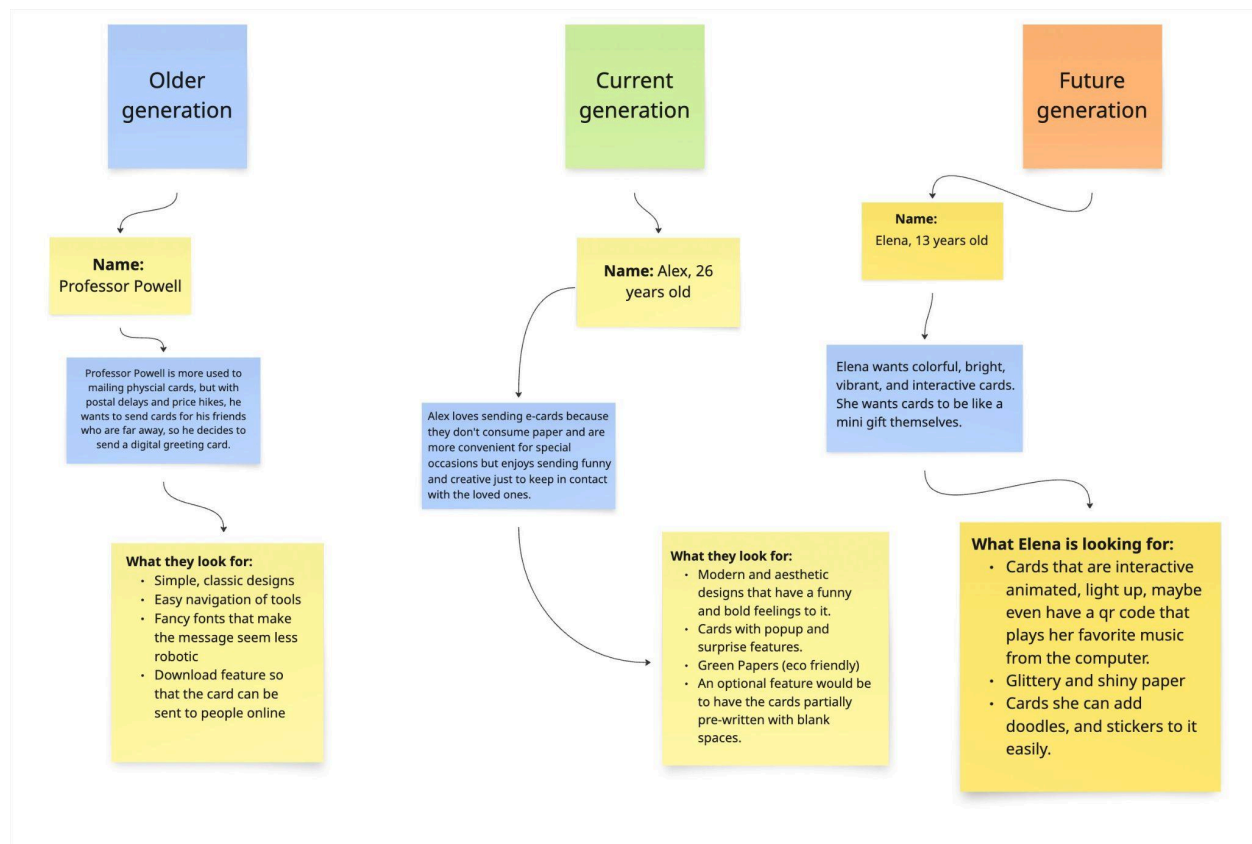
**Purpose:** Letting friends and family transmit care through time and space with easily accessible, personal customization of digital greeting cards!

**Minimum Viable Product (MVP):**

Users can create and decorate their own 5" x 7" dimension (standard dimension) greeting card, uploading a photo or using plain text to decorate the cover, and typing a personalized message on the inside.

- The created card will be saved to local storage until deleted by user
- When they are done, they can choose to download the card

### User Personas



### Potential Feature List (organized by priority):

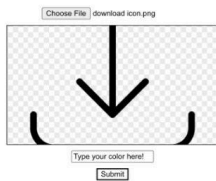
*Highlighted items are required for MVP*

1. Buttons to create and delete a greeting card

2. Add text anywhere on a set space on the page
  - a. Can we move text around?
3. Upload a photo into a set space on the page
4. Download finished card
5. Gallery display of cards built by the user for easy access
6. Option to customize fonts
7. Option to change the orientation of the card (sandwich or hot dog style)
8. Option to add stickers to card
9. Pre-built templates for users to edit/ start their card designs from

## Feature Testing

upload  
image  
functionality



```
<!--picture button-->
<input type="file" id="image_input" accept="image/png,image.jpg">
<div id="display_image"></div>

<!--color button-->
<input class="submissionField"
  value = "Type your color here!">
<button
  class = "submitButton">Submit</button>

<script src="Collage.js"></script>
</body>
```

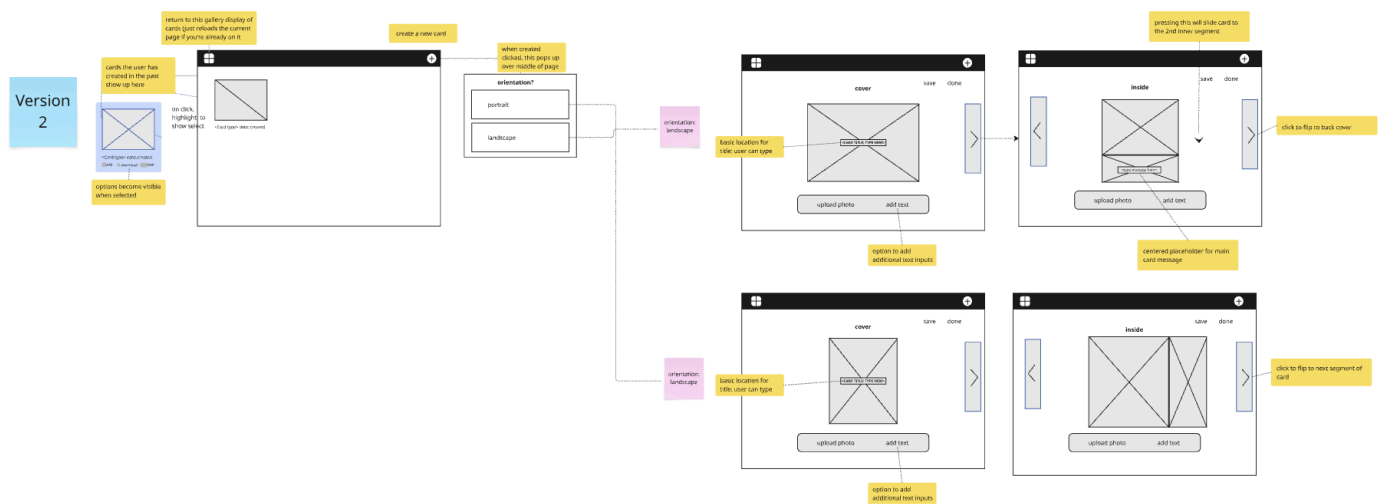
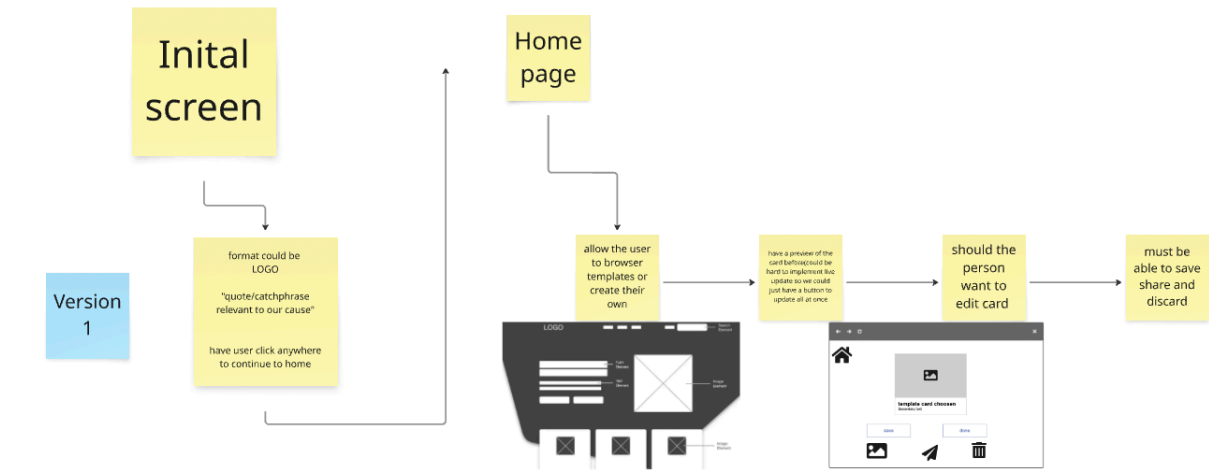
html

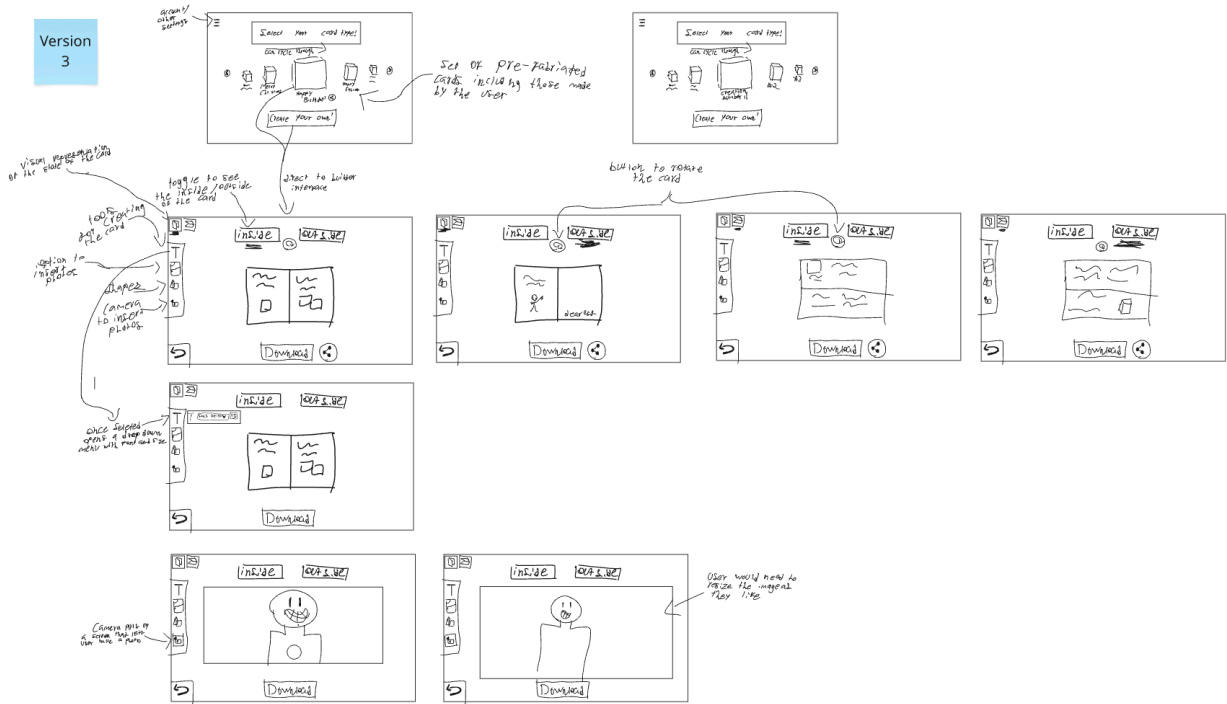
```
const image_input = document.querySelector("#image_input");
var uploaded_image = "";

image_input.addEventListener("change",function(){
  const reader = new FileReader();
  reader.addEventListener("load",() => {
    uploaded_image = reader.result;
    document.querySelector("#display_image").style.backgroundImage =
`url(${uploaded_image})`;
  });
  reader.readAsDataURL(this.files[0]);
})
```

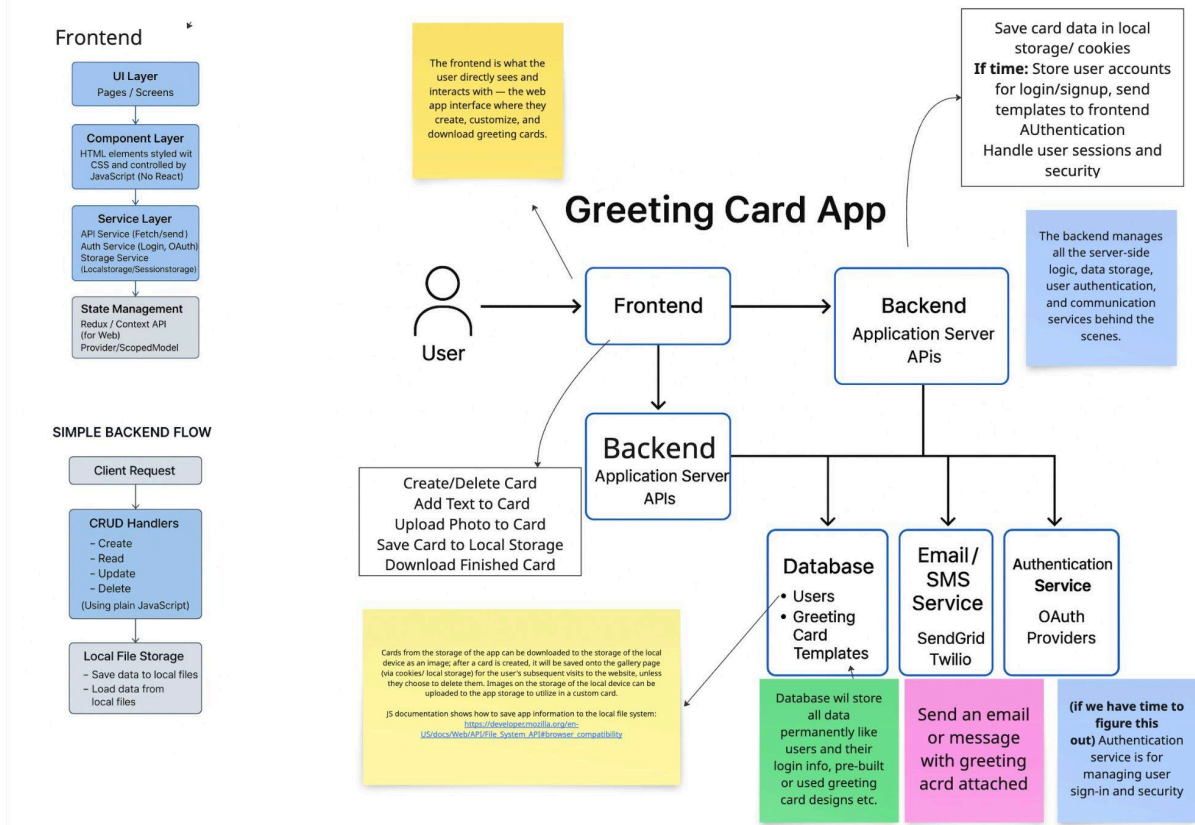
JS  
handling

## Sketches





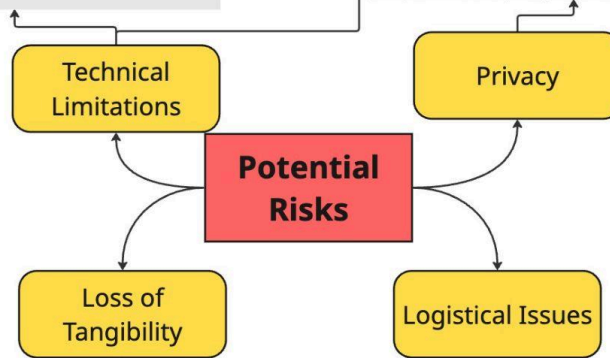
## System Design



## Risks & Rabbit Holes

The website loses what makes it special: customizability. Customizing anything takes a long time, especially if you want to make something nice for someone. Since everything is stored locally, there is no logistical way of saving custom templates, thus no one is going to want to customize!  
**Bottomline: the local storage specification severely limits how/what we can do with this project.**

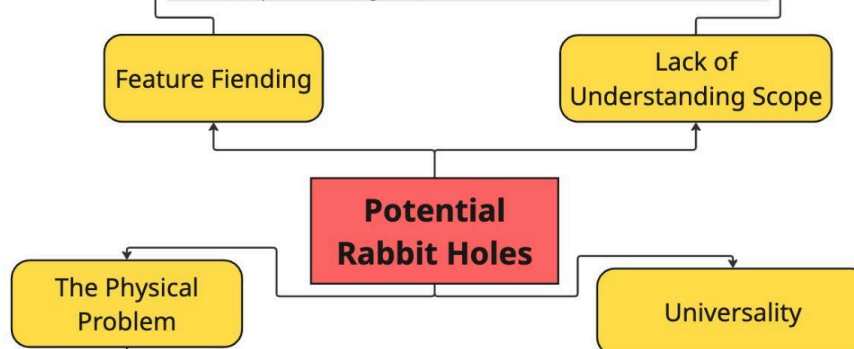
This is a simple one, but almost all users would want their cards to be private. These cards could potentially have very intimate things (not to be necessarily shared with the public). Because of this, we believe most users would want their customizations to be optionally public (defaulted to a private setting).  
• Given the constraints of the project, how do we guarantee user privacy on a local storage?



The whole "aesthetic" of a greeting card is the opening of the greeting card (sort of the tangibility of it). If the greeting card would be something to be shared, it could pretty much only possibly be sent as an attachment or a link to the website\*.  
• How are we going to try to make this website as close to "opening" a card as possible.  
• How can we sort of replicate and add spice to this practice but non-physically?

\*If it is an attachment:  
• Our website loses a large amount of purpose because there are other resources that would be better for the job.  
• Would the cards be printable easily (how would the quality of the card transfer over physically)  
  
\*If it is not an attachment:  
• We actually add a lot more complexity to the project (need to essentially have two different web pages: the cardmaker and the cardviewer).  
• Is this possible with only local storage?

A HUGE rabbit hole will be us thinking of more and more features to add. We think that there is just a lack of understanding of the scope of the project in general. Are all these features well-thought out. What if we work on features that we think should be there only for it to be seemingly useless for the user (huge time-waster). For example, one of the main draws of this project will be our UX. We will have a larger team focused on UX and features related to UX, but potentially all the additions we make will add a lot of friction for the user and make the product less sought-after.



A risk that was discussed above was how the greeting card would be sent to somebody, whether it was an attachment or a link. This brought up the discussion that someone might want to print the card that they were sent. If this is the case, it is very possibly that the team could end up spending a lot of time to understand and tweak the "print" logistics so that the card looks nice (not pixelated), prints well on different papers, etc... This could also fall under Feature Fiending!

We can potentially spend a lot of time trying to make it so that everything works on many platforms and screen sizes. As we adapt to different platforms, we'll likely uncover new UI/UX challenges that require additional features or customizations. Without strong constraints, this could lead to a constantly expanding scope, delaying delivery and making it harder to maintain a clear, focused product (related back to Feature Fiending and Lack of Understanding Scope).

## Possible Expansions

- After the MVP is complete and tested with users, we can make our way down the features list
- Improve app security and retention of designs

## **(Rough) Workflow => 5 weeks to MVP (or beyond) completion:**

*\*this is subject to change based on assignment structure laid out by teaching team*

-> weekly meetings + drop in work hours during Wednesday lab sessions

-> full team check ins Tuesdays and Thursdays: sprint updates to leads on Sundays + more as needed

Weeks 1 & 2: interface design, user research and feature feasibility testing

Week 3: implementation

Week 4-5: testing and refinement