P6: Paper Prototype

Team Literate
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Project Description

Our desktop application enables librarians to create, view, and update analytic visualizations of library data using an effective and user friendly interface through a variety of functions. This application supports librarians by enabling actions such as, searching, sharing, analyzing, comparing to other libraries, and editing data. Based on the visualizations they created, librarians can provide relevant services and useful resources for the community they serve. It is the objective that librarians will have a trouble- free, end-to end experience while using the application.

Tasks

The three main tasks we will be asking the user to complete are the following:

Task 1: Edit a visualization on the Dashboard

In this task, we want to let users edit the the data and visualizations on the dashboard using a pop up interface. This gives them the opportunity to select a different visualization or graph (bar graph, line graph, scatterplot, pie chart etc) to best visualize the data presented.

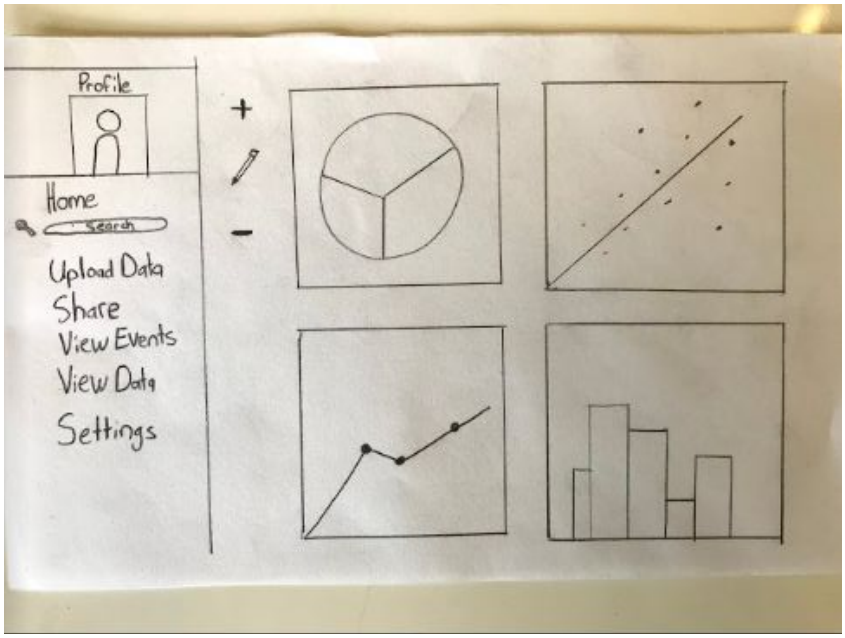
Task 2: Upload a CSV file to create a visualization of the dataset

In this task, we want the user to upload data in the form of a CSV file. Then, we would like the user to select a visualization for that dataset ((bar graph, line graph, scatterplot, pie chart etc), and additionally select the x-axis and y-axis for the data.

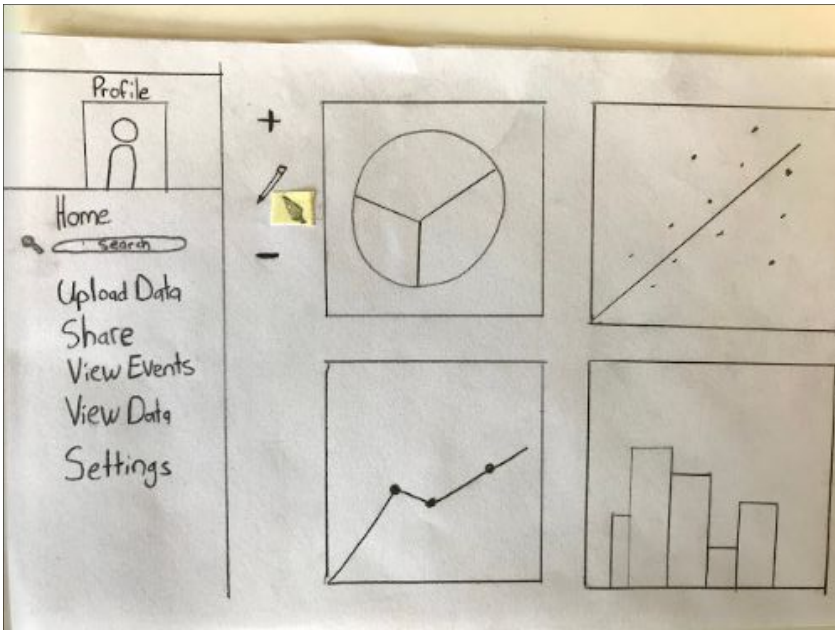
Task 3: Input event data to track long-term event attendance

In this task, we want the user to select the event that they are recording data for in a calendar view, and input the number of attendees. Then the user is able to see the updated visualization on the dashboard.

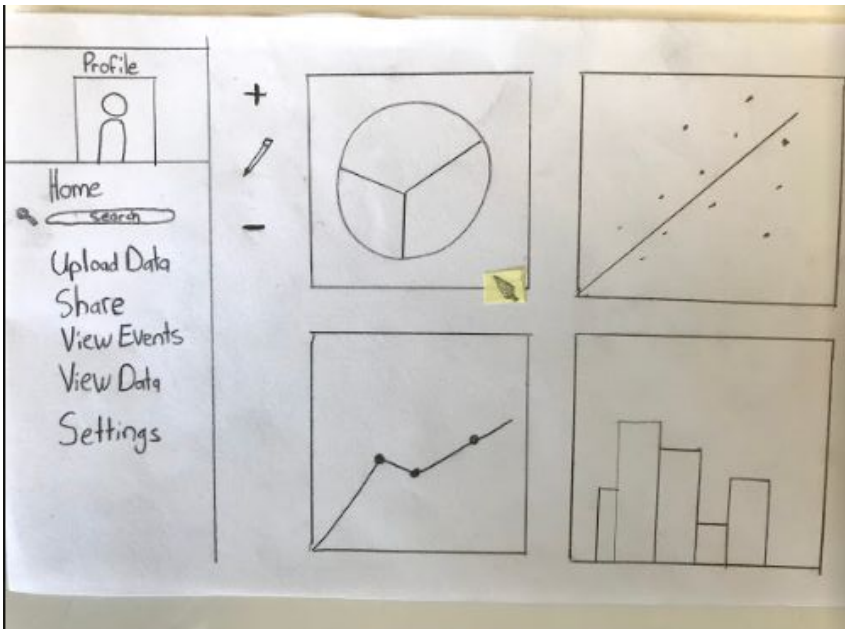
Task 1: Edit a Visualization on the Dashboard



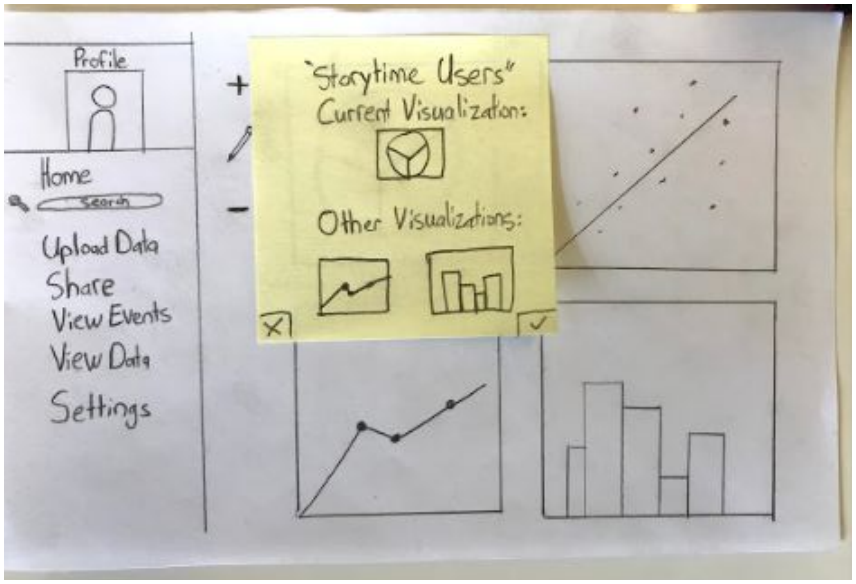
1: The user begins at the Dashboard where they can see visualizations and datasets after authentication.



2: The user selects the pencil “Edit” icon to change the interface into the edit-mode.

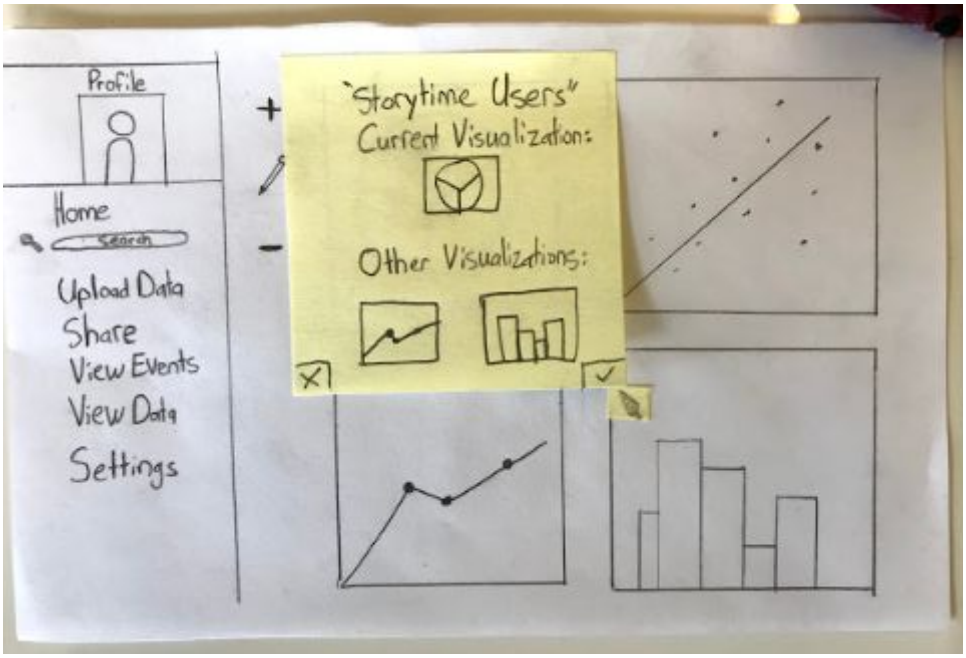


3: The user selects the visualization on the Dashboard that they would like to edit.



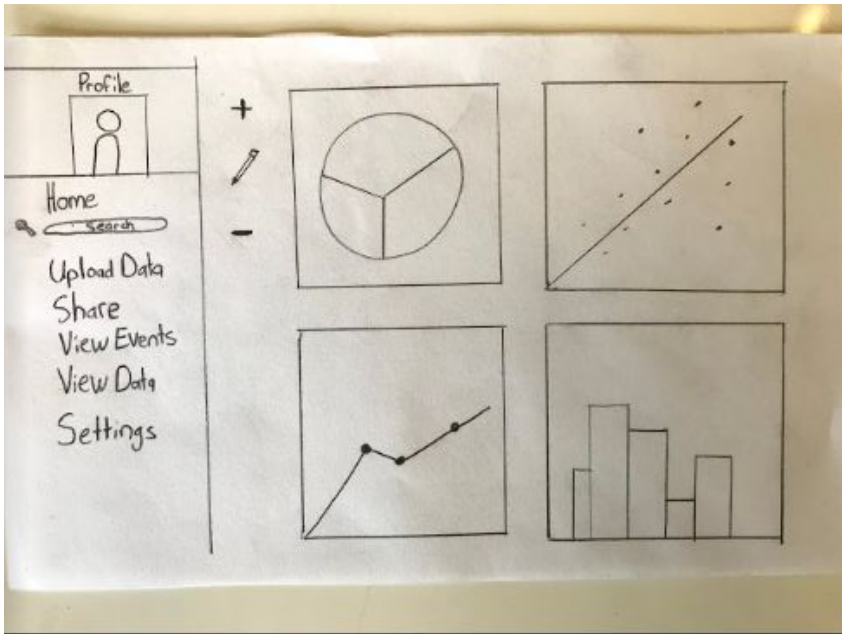
4: The user is given an “Edit Visualization” popup and can choose a different visualization (ie: line graph or bar graph) based upon the selections provided.

5: The user selects the “bar graph” icon to change the data visualizations into a bar graph.

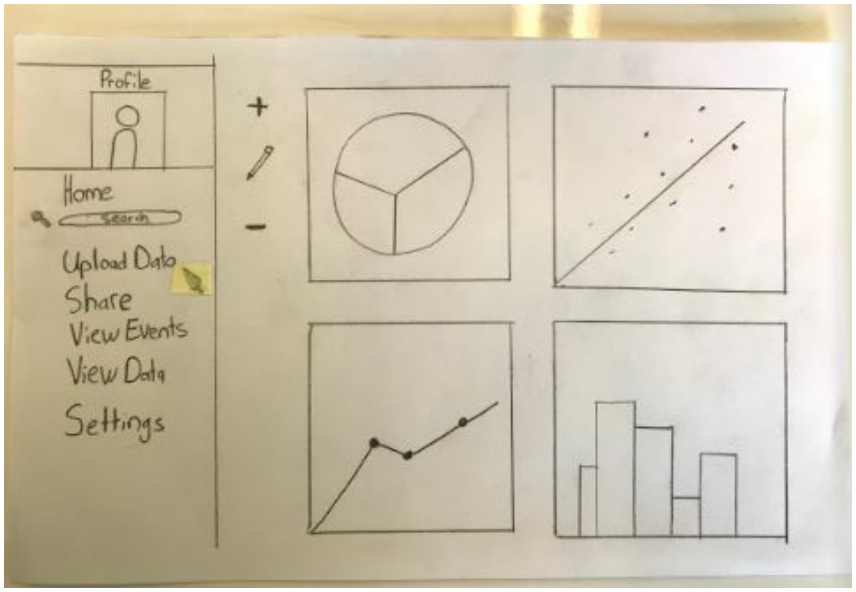


6: After selecting the “bar graph” icon, the user selects the “✓” icon to confirm the change in visualization and complete the task.

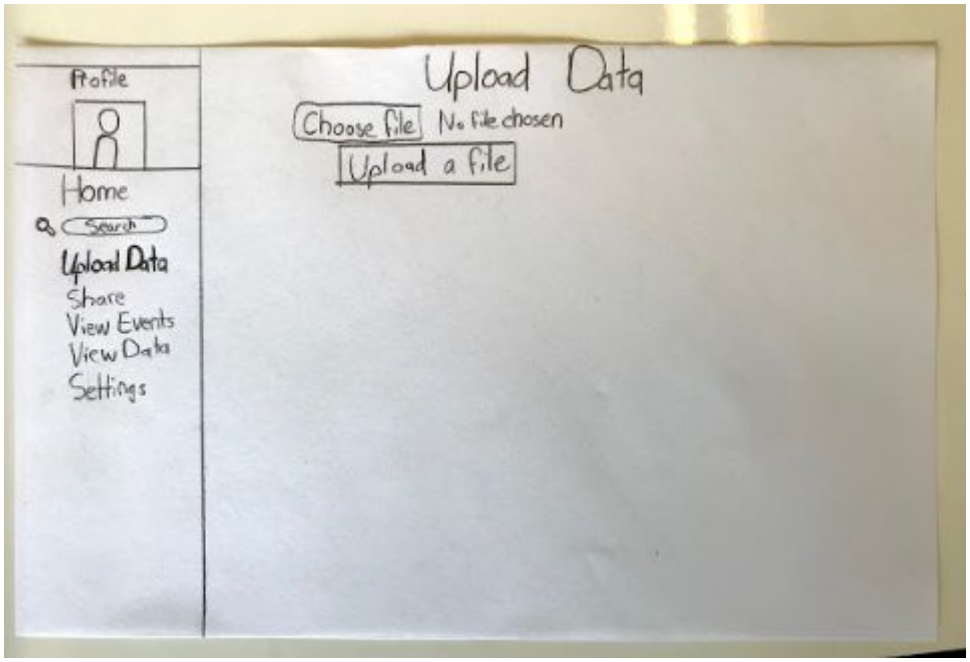
Task 2: Upload a CSV File and Create a Visualization



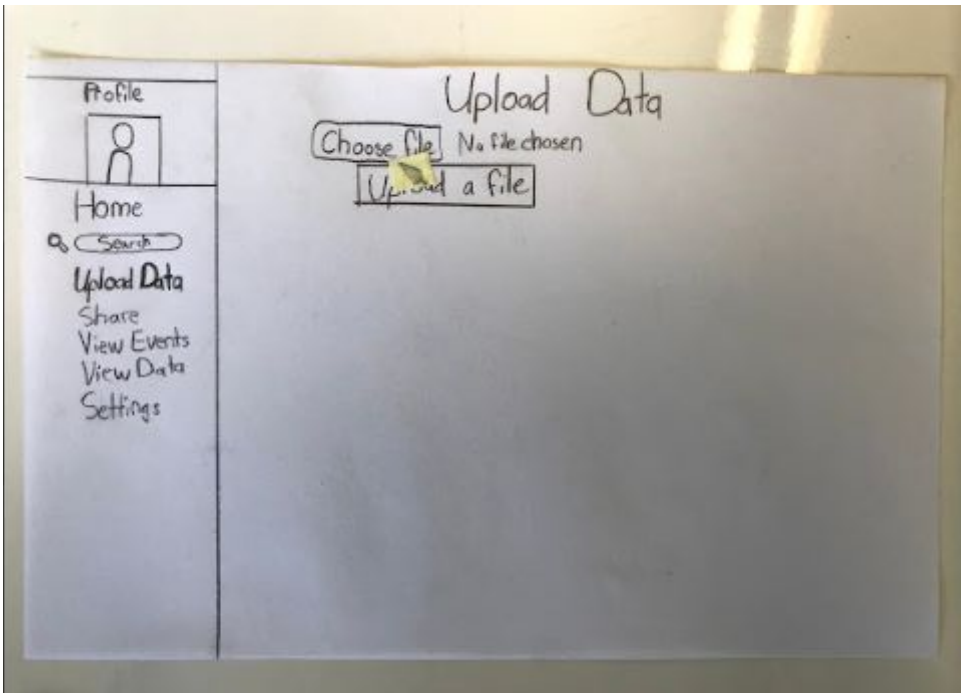
1: The user begins at the Dashboard where they can see visualizations and datasets after authentication.



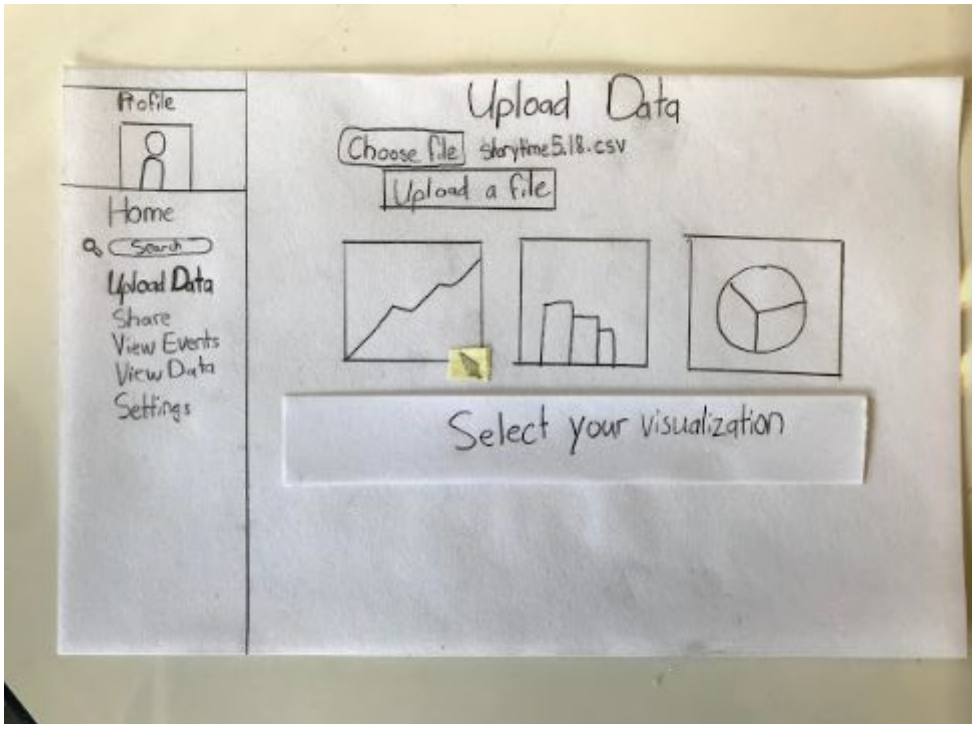
2: The user selects “Upload Data” on the side toolbar to create a new visualization of data.



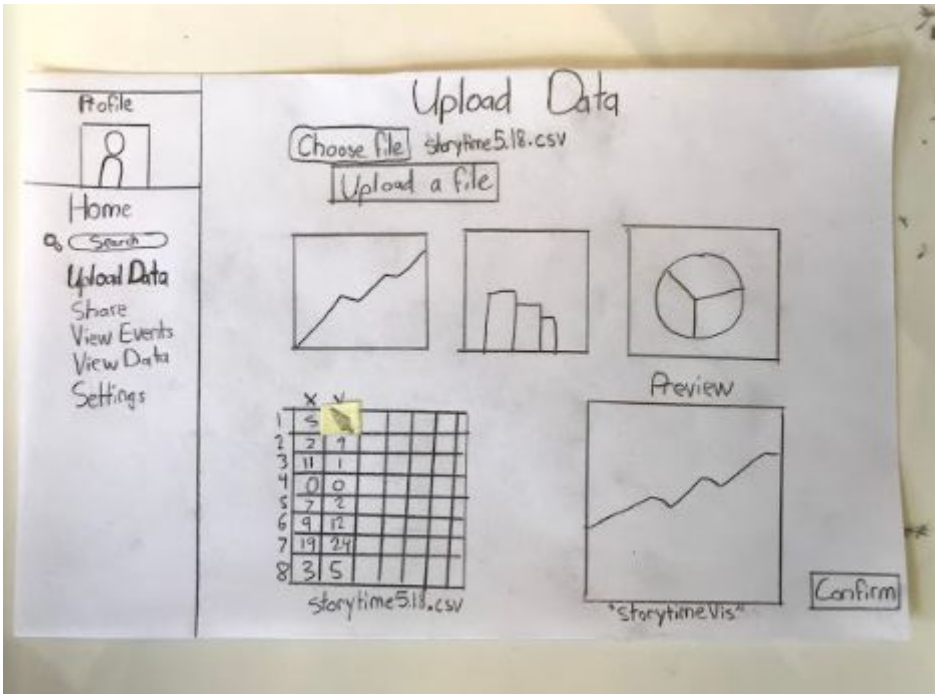
3: The user is taken to the “Upload Data” page where users can upload data as a CSV file.



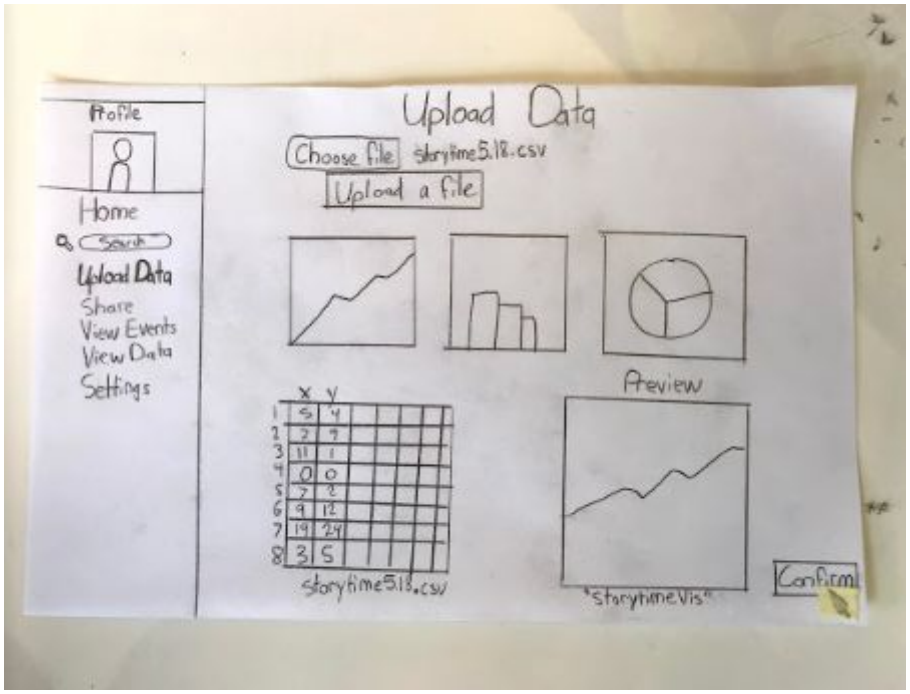
4: The user selects the “Choose file” button to select a CSV file from their computer, and upload it into the application.



5: After the user uploads the CSV file, the name of the file appears on the screen. Additionally, the user can select a visualization for the dataset by clicking on the visualization that they deem most fitting for the file that they uploaded.

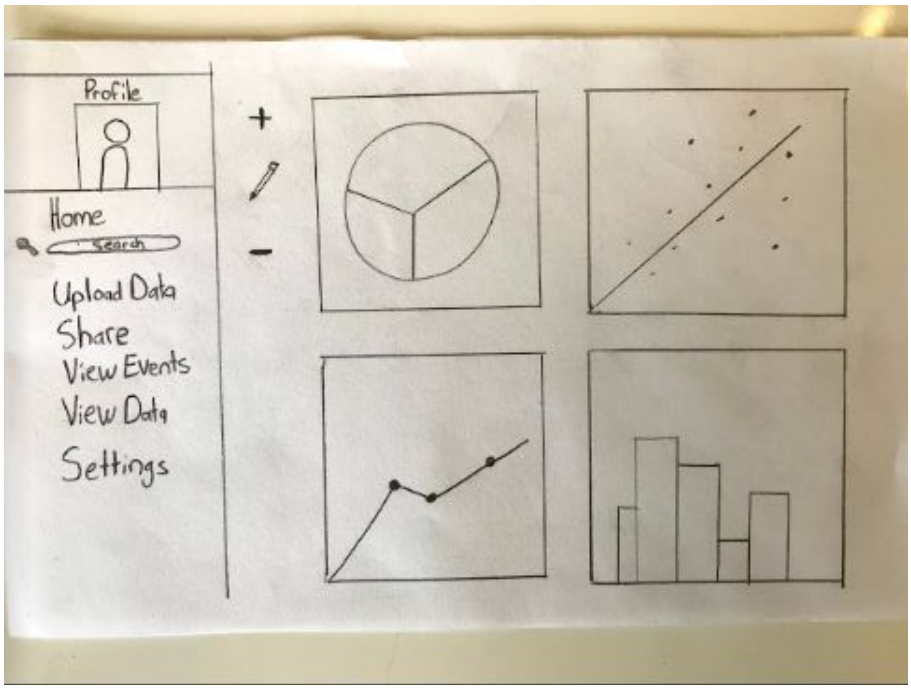


6: The user then selects the x-axis and y-axis of the dataset by clicking on the appropriate column in the csv file. The user is also prompted with a preview of the visualization on the bottom right side.



7: The user selects the “Confirm” button to create the visualization based upon the csv file uploaded.

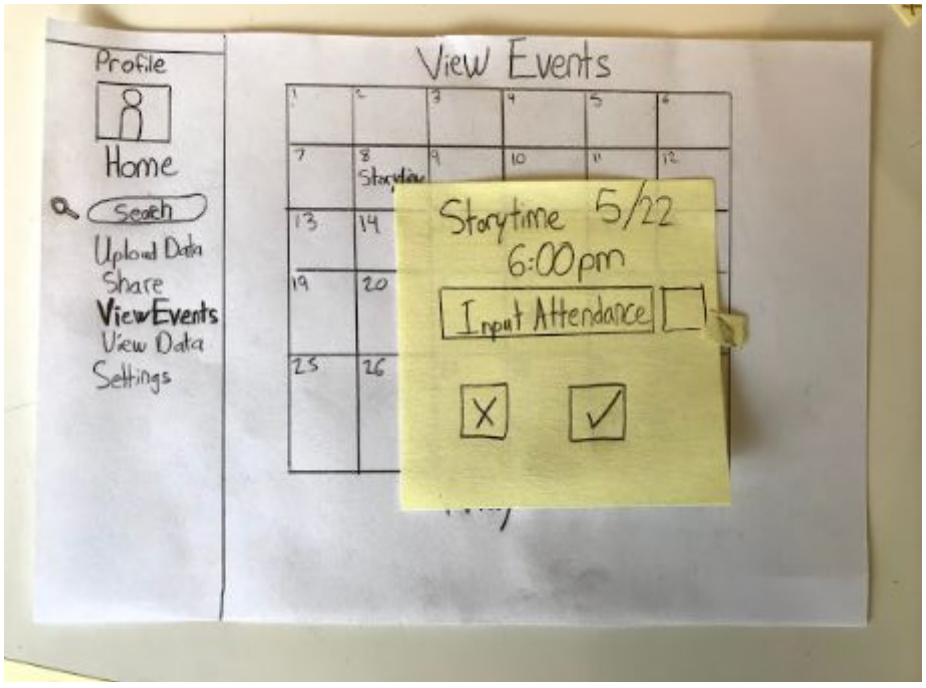
Task 3: Input Event Data to Track Long-Term Event Attendance



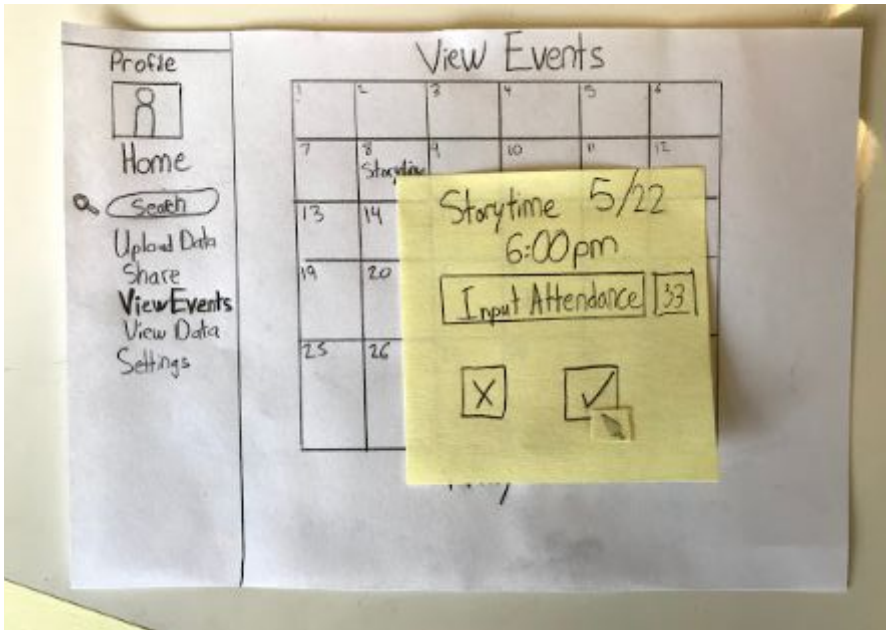
1: The user begins at the Dashboard where they can see visualizations and datasets after authentication.

2: The user selects “View Events” on the side toolbar to input event attendance from a Storytime event at the library.

3: The user is taken to the “Calendar View” for events pertaining to the user’s library branch. The user selects the event session that they would like to input the attendance.

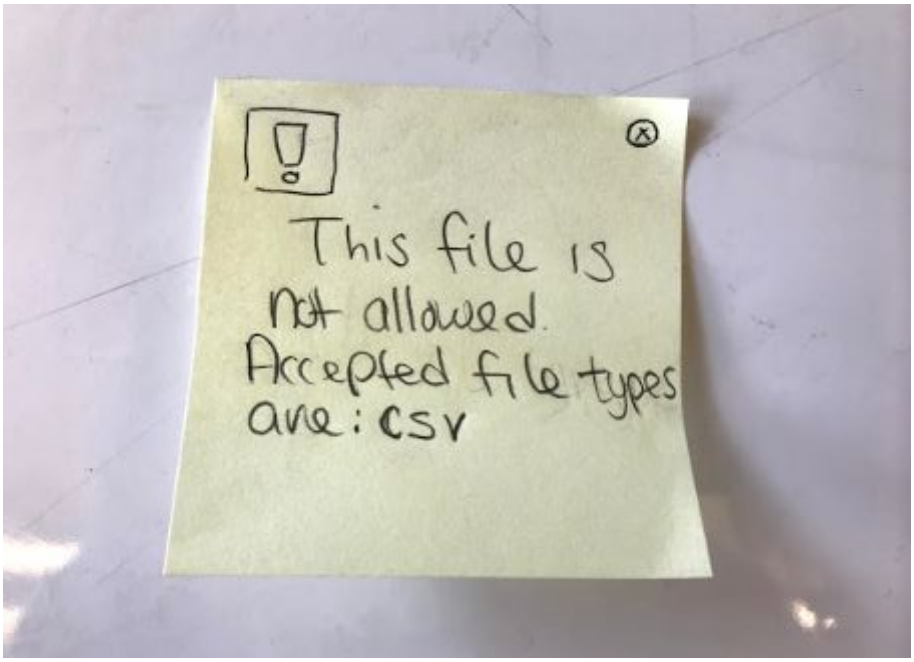


4: The user is given an popup interface for the specific event session, and clicks the empty box to type in the number of attendees at the library session.

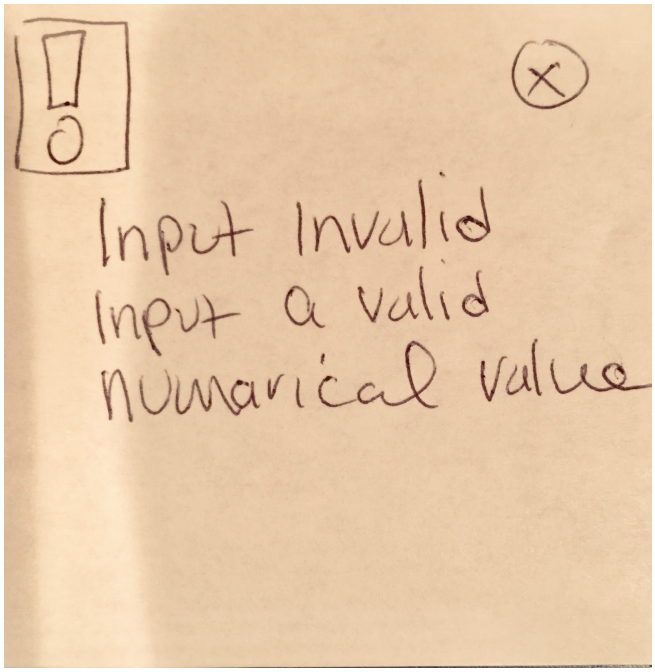


5: After the user inputs the number of attendees for the session, they select the "✓" icon to confirm the attendance input and complete the task.

Failure States: The messages we would use to show failure in our application



This popup would appear if the user fails to upload a CSV file, and instead uploaded a different file type. The popup would appear on their page and the words “This file” would substitute for the name of the file that was not allowed.



This popup would appear if the user fails to input a valid numerical value for the number of attendees at an event.