CULib Study Spot

Find your study spaces
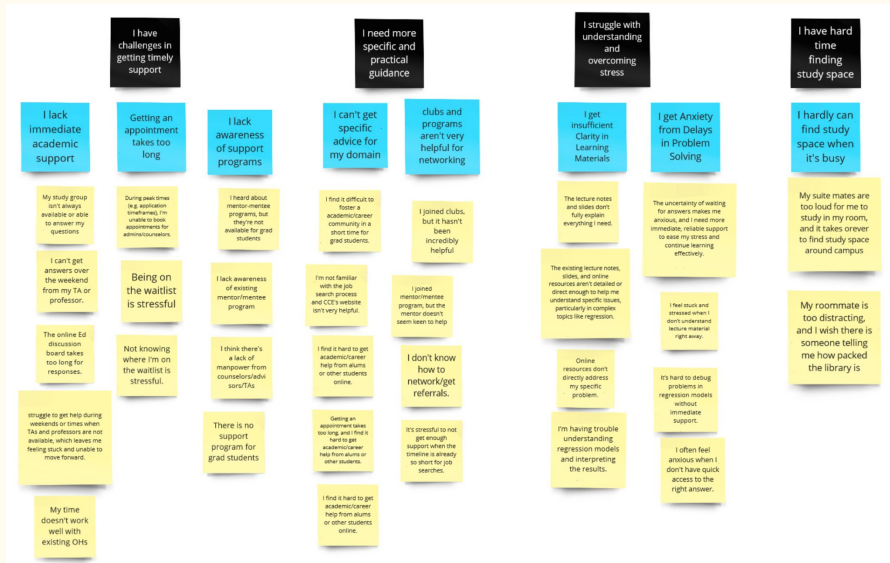
- Problem Statement
- Design Concept
- Solution Evaluation
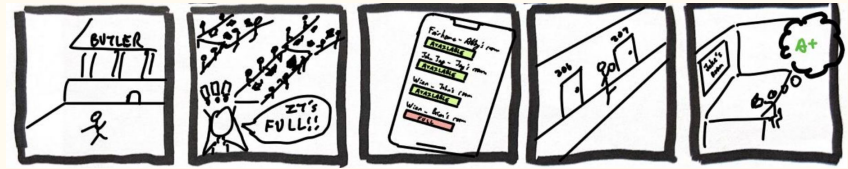- Demo

Problem Statement

—

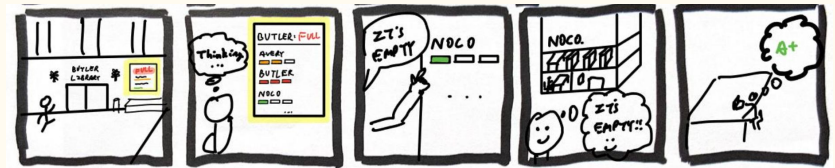Students struggling to find study space on campus

Design Concept

❌ Room Sharing app

✔️ Library Occupancy app

2 fold problem

Students:
- Help students find study spaces easier
- Ensure upkeep for library capacity meter

Librarians:
- Intuitive frontend UI to remove reliance CUIT

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🔍   Search CLIO & the Libraries Website

LIBRARIES OPEN NOW

Click on a location for its full schedule.

Avery Architectural & Fine Arts Library	▁▃ 13%	9:00 AM - 11:00 PM	Library Information Office	9:00 AM - 5:30 PM
Barnard College Library		8:00 AM - 2:00 AM	Mathematics Library	9:00 AM - 11:00 PM
Business & Economics Library in Uris		9:00 AM - 11:00 PM	Music & Arts Library (Wiener)	9:00 AM - 9:00 PM
Butler Library Building Hours	▁▃ 23%	OPEN	Rare Book & Manuscript Library	10:00 AM - 4:00 PM
Butler Library Circulation Hours		9:00 AM - 9:00 PM	S. Steven Pan '88 Business Library (Manhattanville)	10:00 AM - 5:00 PM
C.V. Starr East Asian Library		CLOSED	Science & Engineering Library	OPEN
Columbia University Archives		10:00 AM - 4:00 PM	Social Work Library	10:00 AM - 8:00 PM
Health Sciences Library		CLOSED	Teachers College	9:00 AM - 10:00 PM
Journalism Library		10:00 AM - 5:00 PM	The Burke Library at Union Theological Seminary	9:00 AM - 10:00 PM
Law Library		OPEN		
Lehman Social Sciences Library	▁▃ 9%	9:00 AM - 3:00 AM		

▁▃ Current WiFi usage data. Data provided by CUIT. More details & privacy information.

Solution Prototype -Students

FIND YOUR STUDY SPACES

Current Date: 12/10/2024 (Saturday)

Library Name	Seat Occupancy	Quiet or Talk Area	Best Floor	Open Hours
Avery Architectural & Fine Arts Library	60%	Quiet	2nd	9 AM – 9 PM
Barnard College Library	82%	Quiet & Talk	Not Available	9 AM – 10 PM
Burke Library at Union Theological Seminary	55%	Quiet	3rd	9 AM – 10 PM
Business & Economics Library in Uris	45%	Talk	1st	9AM – 11 PM
Butler Library	68%	Quiet & Talk	2nd, 5th	24H
Lehman Social Sciences Library	49%	Talk	3rd	9 AM – 11 PM
Science & Engineering Library	58%	Quiet & Talk	2nd	9 AM – 3 PM
Teachers College	45.3%	Talk	2nd	9 AM – 10 PM

Butler Library

<Previous Library   Next Library>

Each Floor	Seat Occupancy
2nd Floor (Talk)	48% (Average)
3rd Floor (Quiet)	88% (Busy)
4th Floor (Talk)	67% (Busy)
5th Floor (Quiet)	45% (Average)
6th Floor (Quiet)	81% (Busy)

Best Floor: 2nd Floor(48%), 5th Floor(45%)

Booking study rooms: 4th Floor

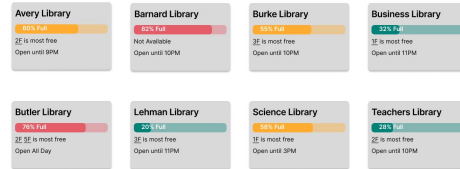Open Hours: 24 hours   HOME PAGE

Butler Library

<Return

4th Floor

Each Room	Seat Occupancy
Room 403A	N/A (Study Rooms)
Room 404	N/A (Study Rooms)
Room 405	N/A (Study Rooms)
Room 407	N/A (Study Rooms)
Room 408	N/A (Study Rooms)
Room 409A	N/A (Study Rooms)

Booking Study Rooms

HOME PAGE

Site Title   Edit site   + New

FIND YOUR STUDY SPACES

Avery Library
60% Full
2F is most free
Open until 9PM

Barnard Library
82% Full
Not Available
Open until 10PM

Burke Library
55% Full
3F is most free
Open until 10PM

Business Library
32% Full
1F is most free
Open until 11PM

Butler Library
76% Full
2F 5F is most free
Open All Day

Lehman Library
20% Full
3F is most free
Open until 11PM

Science Library
58% Full
1F is most free
Open until 3PM

Teachers Library
28% Full
2F is most free
Open until 10PM

Site Title   Edit site   + New

Barnard College Library

Suggest Libraries:

Business Library
32% Full
1F is most free
Open until 11PM

Lehman Library
20% Full
3F is most free
Open until 11PM

Teachers Library
28% Full
2F is most free
Open until 10PM

Each Floor	Seat Occupancy
1st Floor	96% Full
2nd Floor	86% Full
3rd Floor	70% Full
4th Floor	76% Full

Best Floor: Not Available

Open Hours: 9AM - 9PM

Home Page

Solution Prototype -Librarians

Risks and Problems we faced in the Process

- **Technical risk:**
  - Not being able to retrieve CUIT WiFi data from AWS S3 ticket. Not being able to extract WiFi information for each room/floor of the library. CUIT WiFi feed is not stable
- **Design risk:**
  - Not being able to aesthetically differentiate ourselves from the current hours.library.columbia.edu page when technical risk manifests.
  - The interface needs to be intuitive and accessible, especially for users in a hurry. If users find it difficult to navigate or if the occupancy data isn't easily understandable, they may abandon the tool, indicating a potential mismatch with our design goal for users.

- **Scheduling/Project Management Risk:**
  - Not being able to manage the project after graduation, the project becomes obsolete and poorly maintained.
- **Wordpress/front-end dev portal usage intuition:**
  - Our primary objective is to bring back control to Librarians to independently manage front-end website read/write access and with cumulate relevant back-end dev members from CUIT. While we believe many of this can be tackled with a ReadMe documentation and wordpress website with the objective to simplify the entire process as much as possible, our final concern is that our proposed solution may still remain too complicated for a technology novice.

Demo Time