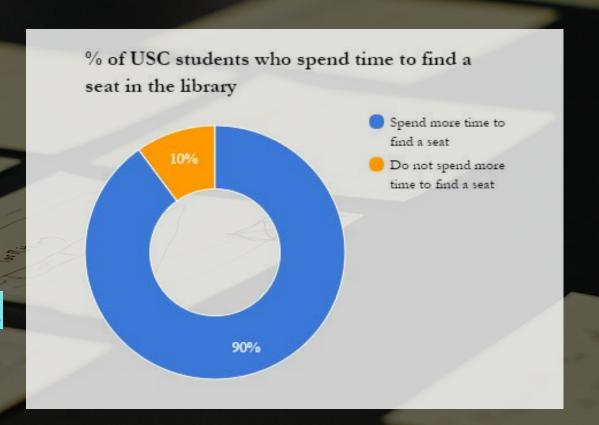


Customer Discovery Findings

90% (9 out of 10) of USC students who use the library for studying said they spend too much time trying to find a seat.

THUS, VALIDATED!!!



Additional Findings 10 out of 10 USC students said they can barely find any seats in the library during exam

week especially during finals.



10 out of 10 USC students said they always carry their phone with them when they are on campus.



9 out of 10 USC students said they look for a seat that has a charging port nearby, to power their devices while studying.

8 out of 10 USC students said they find leavey library and science library the most crowded out of all the libraries on campus.



Validated Persona

Sheldon Qooper, student at USC



"You're in my spot"

Description:

- Late teens/Early 20's.
- Attends the University of Southern California, Los Angeles, California.
- Shares a small on-campus room with his roommate.

Behavior:

- · Tech-savvy person.
- Very busy with club activities, hence constantly in a hurry.
- Uses many of the libraries on campus very frequently to work individually or to work with friends.
- · Doesn't leave his room without his phone.
- Addicted to Starbucks coffee.

Needs & Goals:

- Needs a quiet space to think/study and to do his assignments.
- Needs to use computers in the library that have licensed software pre-installed like Cadence and Photoshop for his lab/assignments/projects.

Control of the Contro

- Needs to have plug points near his seat to charge his devices.
- Motivated to turn in his assignments on time.

Competitive Analysis Brief

- + A competitive analysis was conducted to review and compare online sites and applications in the relevant marketplace as of February 2017.
- + The goal was to identify any opportunities or gaps that aligned with our app's value proposition that might allow for a quick win using a "Lean" approach for releasing a minimum viable product.
- + I found 3 direct and 3 indirect competitors.
- + The vision is to create an app that allows USC students to quickly find seats in the library from anywhere using our app.

DIRECT COMPETITORS:

- *UCI Libraries
- *NAU Libraries
- *LSU Libraries

INDIRECT COMPETITORS:

- *IsItBusy.in
- *SpaceFinder
- *RoomFinder

INFLUENCERS:

*Ticketmaster

Significant Direct Competitor: UCI Libraries

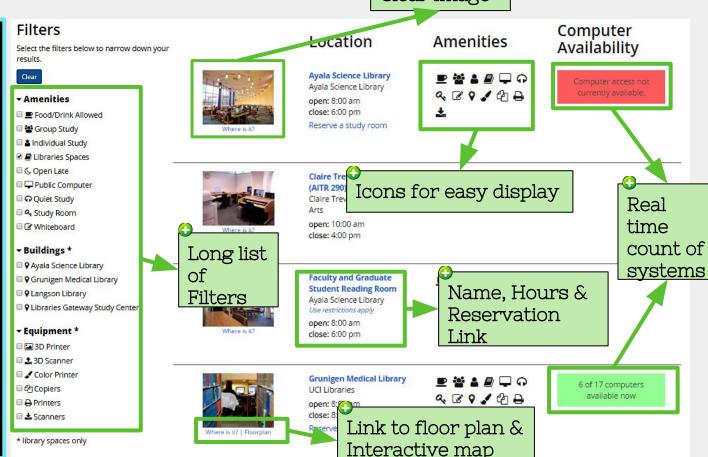
Clear Image

PROS

- + Intuitive UX
- + Real time data of systems available
- + Floor plan and map help
- + Wide filter list
- + Icons for amenities for easy reading

CONS:

- No app available!!!
- Doesn't provide real time seat count
- Only rooms can be booked



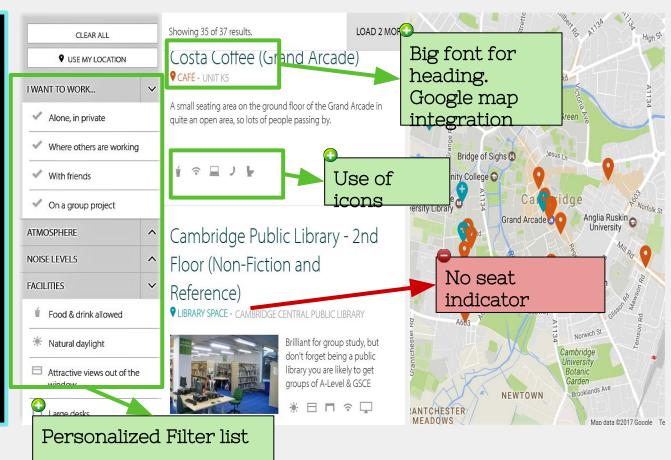
Significant Indirect Competitor: SpaceFinder

PROS:

- + Good UX, easy to read.
- + Users can provide TIPS about the places (UGC)
- + Long useful filter list
- + Icons for amenities very easy to read
- + Contact information and hours of operation clearly provided.
- + Google map integration

CONS:

- Real time data unavailable
- Can't reserve space
- No app available yet



Findings Brief Summary

Current Marketplace

We are currently competing in the "Purple Ocean" market conditions since we have three direct competitors, but none have used IOT (Internet Of Things) to extract sensor readings from the library rooms or seats to provide real-time data.

Opportunity

None of the competitors have a fully functional app that has all the essential features we are aiming for.

However, ours is a little bit of a futuristic idea, but there is still plenty of room for innovation.

Recommendations

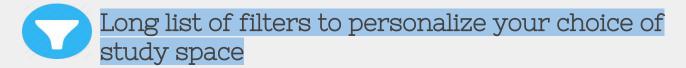
I can definitely envision the right hardware and software required for the app in future, given the rapid market changes in technology.

Hence, we could go ahead with the project for now and test drive with a few essential features with the "hypothetical" sensor in place.

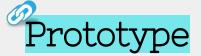
Value Proposition

A library space locator for USC Students to quickly find ideal study spaces.

Key Experiences



- Real-time map of reliable study spaces on each floor of every library on campus
- Real time notifications whenever a favorite seat or spot opens up nearby (within 2 mile radius of campus)



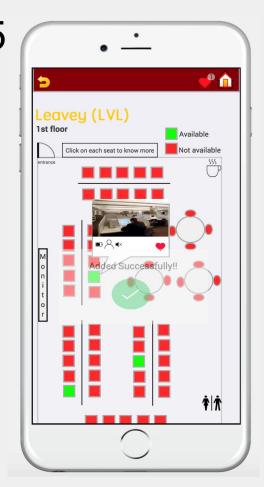
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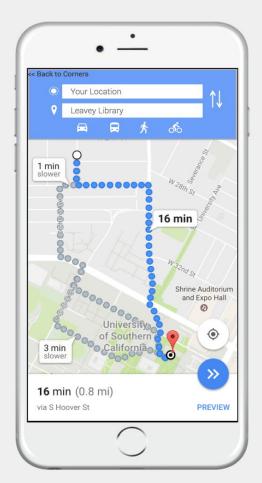


Map Map ≗⊟ List I want to study.... Q Alone, in private 380 ft away Indoor Group Project Q With friends t ut labore et dolore Outdoor - -Noise Levels... 450 ft away Whispers . gna aliqua. Background Chatter Facilities Available/Nearby... 0.64 mile away Wifi Enabled TO Food/Drink Allowed na aliqua. † Restrooms Nearby Electrical Outlet Open Late 0.70 mile away Reservable Moveable Furniture Computers int ut labore et dolore n na aliqua.

 Map ≅= List W Jefferson Blvd Leavey California SAL 1.1 mile







Field Research Execution



Scouted Leavey and Doheny library for participants.



Since it was the week of the Spring Break, my assigned partner and I conducted our study in the library with the students who were at Leavey during the break.

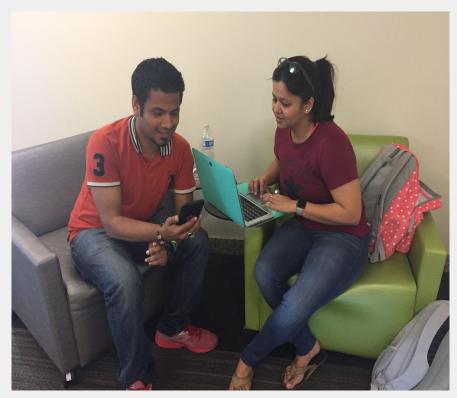


Success Criteria for Validation: At least 70% (7 out of 10) would use the app when they want to go to the library.

Interview Quote

"It actually shows how each seat looks?!
That's so cool!"

"I really like this floor layout since I can easily see where the nearby restrooms, printers and all are on each floor!"

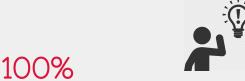


Interview in progress at Leavey library

Guerilla User Research Findings

90%

9 out of 10 USC students said they can barely find any seats in the library during exam week especially during finals



10 out of 10 USC students said they can definitely see themselves using this app when they go to the library





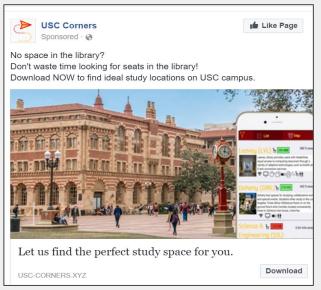
5 out of 10 USC students said they would not pay for the app but would use it if provided for free like campus cruiser

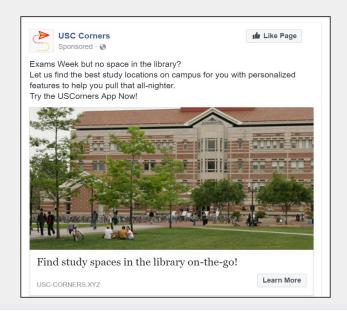


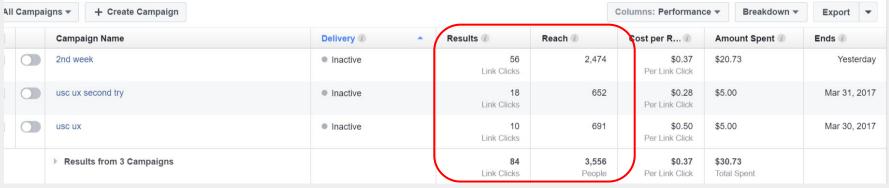
Validated! -> PERSEVERE:)

Business Model- Tie up with USC

Facebook Campaign Results







Unbounce Campaign Results





Say Goodbye To Unfavorable Study Spaces



Personalized Filters

Choose from the diverse amenities available at different libraries needed to enhance your academic achievement.



Real-time Availability of Seats

Be constantly updated on seat openings on all floors of each library on campus with the ability to bookmark favorites.



Save Time

We don't want you wasting your time searching for seats at libraries. You can easily access open seats on-the-go.



Findings/Conclusions:

	Facebook Ad-week 1	Facebook Ad-week 2	Unbounce- 2 weeks
Reach	1343 (2 days)	2474 (4 days)	79
Click	28	56	17
CTR (Click Through Rate)	1.59%	1.91%	21.52%
Findings/Conclusions	The campaign was not very successful with only 84 clicks out of 3556 people reached. Also with the leads, I got only a 21.5 percent which is a below average performance. Next time, instead of a facebook campaign, I would try running the ads directly on USC-related facebook pages where it's definitely bound to reach my targeted audience. Also, the timing may not have been correct to run the campaign, partly because it was exam's week.		

Road Map:

The product will definitely have a wide spread acceptance among students once released. Given the number of admits to USC every year, I do not see an end to it anytime soon. Once it gains momentum, the same idea can be extended to other schools/universities that have a similar customer-problem thereby having the opportunity to expand and grow iteratively.

If an investor were to give me \$100,000 to move forward, I would:

- Conduct research to explore efficient and reliable sensor hardwares or different other options available in the market to estimate the feasibility of the app/idea.
 - <u>Develop</u> a working prototype and run more targeted tests to constantly improve and iterate based on the feedback.
 - Run aggressive marketing campaigns with the help of a market/sales expert.