POV, HMW, Experience Prototypes

CS147: Assignment #2

Matthew Mattei, Alison Rogers, Justin Blumencranz, Monica Hicks

The Glue Crew

Matthew Mattei



Alison Rogers

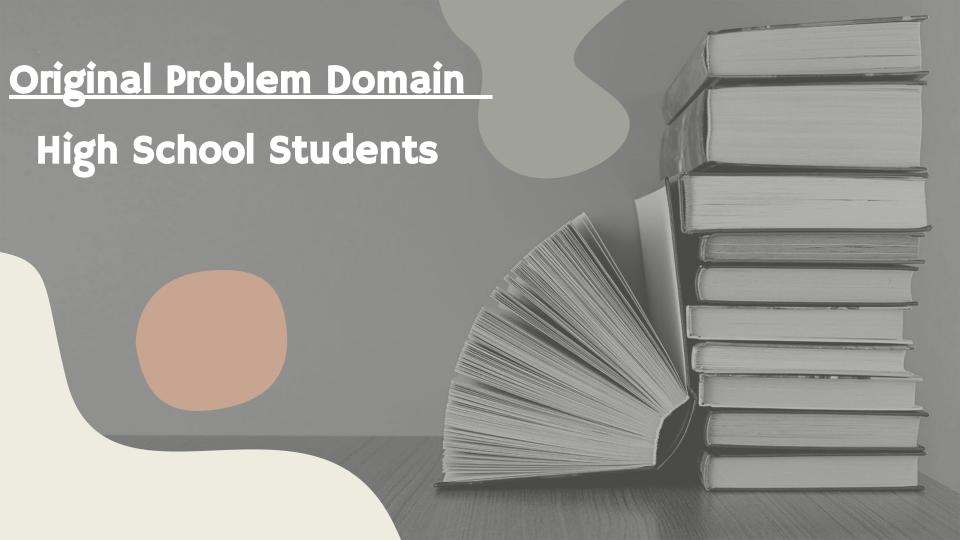


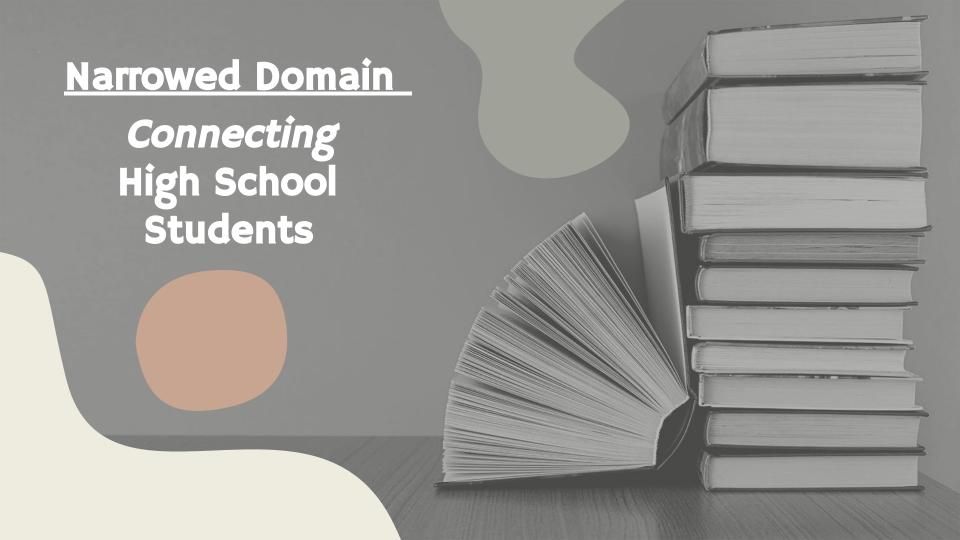
Justin Blumencranz

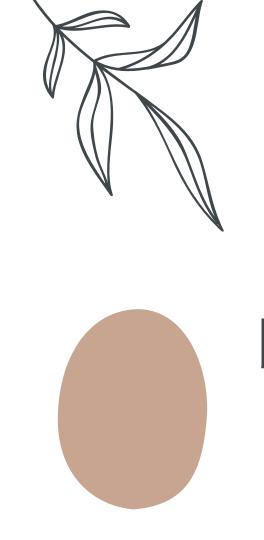


Monica Hicks

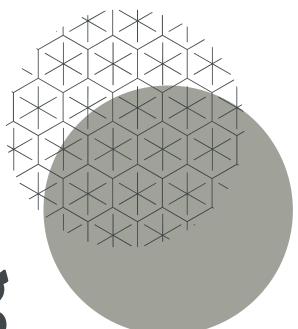








Additional Needfinding





Ryder

Type: High School Sophomore

Location: His house in Menlo Park

Interviewer: Monica

Reason for Selection: Local high school athlete who is just beginning to seriously think about college.

Key Findings:

- ☐ A Takes group notes simultaneously in a shared Google Doc with three friends. Ensures note quality and gives them room to have a "bad day" in class.
- □ B His middle school had a college counselor, and he was able to meet with them and ensure he was on track with college aspirations as early as 6th grade.
- □ C Was peer-pressured into taking harder classes this year and rearranged his schedule after the first week of term.



Sue

Type: Education Admissions Consultant

Location: Zoom

Interviewers: Alison

Reason for Selection: Has worked in admissions and college counseling; deep empathy & understanding of college prep and crafting college applications; FLI.

Key Findings:

- "There's a lot higher stakes earlier on."
- Admissions offices don't see FLI applications as impressive compared to non-FLI applications because FLI applications aren't as "packaged and shiny."
- "I think it takes a lot of level of maturity to want to be intellectually engaged"

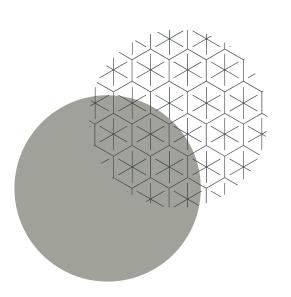
Key Learnings

Ryder:

- Despite having access to college counselors as early as 11, students can be left scrambling at 15 to enroll in appropriate classes and make progress towards their academic goals.
- Despite having access to slideshows and teacher notes, students prefer to work jointly on note taking to ensure quality and pool their collective knowledge.
- Peers can serve as the best source of academic benchmarking and goal setting for students uncertain of their academic aspirations.

Sue:

- Schools and teachers are not deeply engaged with children's different needs, especially around disabilities
- College admissions offices do not understand the stories behind FLI students and the work that their applications are evidence of
- Kids are less engaged with their education because of Al, and it can disproportionately benefit already privileged students



02 POVs, **HMWs**



We met

Jerry, a diving Paly high schooler committed to College.

We were surprised to learn

that, despite falling out love with diving, he does it for 2.5 hours each day, except weekends.

We wonder if this means

that he's afraid of losing opportunities.

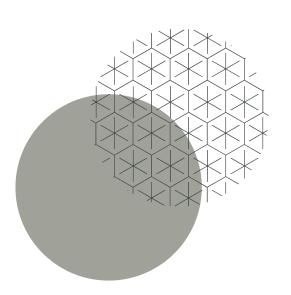
It would be game-changing to

offer more pressure-free opportunities to explore his future

Jerry, a diving Paly high schooler committee We met We were surprised to that, despite falling out love with diving, he does it for 2.5 learn hours each day, except weekends. We wonder if this that he's afraid of losing opportunities. means It would be offer more pressure-free opportunities to explore his game-changing to future

Jerry, a diving Paly high schooler committee We met We were surprised to that, despite falling out love with diving, he does it for 2.5 learn hours each day, except weekends. We wonder if this that he' ortunities. way too broad means It would be offer more pressure-free opportunities to explore his game-changing to future

Jerry, a diving Paly high schooler committee We met We were surprised to that, despite falling out love with diving, he does it for 2.5 learn hours each day, except weekends. We wonder if this that he' ortunities. way too broad means offer more pressure se opportunities to explore his future has to be a better There has to be a better It would be game-changing to focal point



02.1 POVs, **HMWs**



Revised Jerry POV

We met

Jerry, a Paly high school diver uncertain about his future at college.

We were surprised to note

that he dives 2.5 hours every weekday despite having lost his passion for the sport.

We wonder if this means

that he is afraid to explore new hobbies and activities if they came at the potential expense of existing skills.

It would be game-changing

for him to have low-commitment opportunities to shop new activities in a flexible manner.

Now we have a foundation for making incisive POVs

and we're finding some strong signal that connecting to yourself and others are threads worth pulling.

Sasha POV

We met

Sasha, a high schooler coaching volleyball obsessed with academic success.

We were surprised to notice

that she no longer plays volleyball, despite enjoying it, in favor of a coaching job that looks better on her college application.

We wonder if this means

she believes sacrificing her high school enjoyment is necessary for a secure future.

It would be game-changing to convince Sasha that she can pursue her genuine passions and set herself up for success.

HMW make curating a college app like therapy?

Sasha POV

We met

Sasha, a high schooler coaching volleyball obsessed with academic success.

We were surprised to notice

that she no longer plays volleyball, despite enjoying it, in favor of a coaching job that looks better on her college application.

We wonder if this means

she believes sacrificing her high school enjoyment is necessary for a secure future.

It would be game-changing to

convince Sasha that she can pursue her genuine passions <u>and</u> set herself up for success.

HMW make curating a college app like a bucket list?

Sasha POV

We met

Sasha, a high schooler coaching volleyball obsessed with academic success.

We were surprised to notice

that she no longer plays volleyball, despite enjoying it, in favor of a coaching job that looks better on her college application.

We wonder if this means

she believes sacrificing her high school enjoyment is necessary for a secure future.

It would be game-changing to

convince Sasha that she can pursue her genuine passions <u>and</u> set herself up for success.

Ryder POV

We met

Ryder, a high school student who combines digital group notes with friends to guarantee note quality.

We were surprised to notice

that he doesn't combine notes with other students in his hardest subject, math, where he prefers to write his notes on paper.

We wonder if

he distrusts the quality and accessibility of other students' notes when they aren't made collaboratively.

It would be game-changing to

enable Ryder to feel confident in his peers' notes, even when made independently, lessening his personal note-taking burden. HMW make combining handwritten notes cleaner and faster?

Ryder POV

We met

Ryder, a high school student who combines digital group notes with friends to guarantee note quality.

We were surprised to notice

that he doesn't combine notes with other students in his hardest subject, math, where he prefers to write his notes on paper.

We wonder if

he distrusts the quality and accessibility of other students' notes when they aren't made collaboratively.

It would be game-changing to

enable Ryder to feel confident in his peers' notes, even when made independently, lessening his personal note-taking burden.

Anwar POV

We met

Anwar, a Bay Area student trying to transfer out of a virtual high school that only cares about attendance.

We were surprised to notice

that his classes are so poorly timed that he has to hand write his schedule and set numerous alarms to make his classes.

We wonder if this means

he feels unsupported by his school's admin and solely responsible for his transfer's success.

It would be game-changing to

reduce his organizational burden to give him the confidence to focus his energy on schoolwork.

HMW make getting to class an effortless routine?

Anwar POV

We met

Anwar, a Bay Area student trying to transfer out of a virtual high school that only cares about attendance.

We were surprised to notice

that his classes are so poorly timed that he has to hand write his schedule and set numerous alarms to make his classes.

We wonder if this means

he feels unsupported by his school's admin and solely responsible for his transfer's success.

It would be game-changing to

reduce his organizational burden to give him the confidence to focus his energy on schoolwork.



HMW make curating a college app like a bucket list?

Sasha POV

We met

Sasha, a high schooler coaching volleyball obsessed with academic success.

We were surprised to notice

that she no longer plays volleyball, despite enjoying it, in favor of a coaching job that looks better on her college application.

We wonder if this means

she believes sacrificing her high school enjoyment is necessary for a secure future.

It would be game-changing to

convince Sasha that she can pursue her genuine passions <u>and</u> set herself up for success.

HMW make curating a college app like a bucket list?

Sasha POV

We met

Sasha, a high schooler coaching volleyball obsessed with

Top Solution #1

We were surprised notice

We wonder if this means

It would be game-changing to

Make a list of broad interests/areas of interest that generates actionable ideas/hobbies that could be relevant to college apps and acts like a bucket list of things to do.

spite enjoying it, in ter on her college

ol enjoyment is

convince Sasha that she can pursue her genuine passions and set herself up for success.

HMW make curating a college app like therapy?

Sasha POV

We met

Sasha, a high schooler coaching volleyball obsessed with academic success.

We were surprised to notice

that she no longer plays volleyball, despite enjoying it, in favor of a coaching job that looks better on her college application.

We wonder if this means

she believes sacrificing her high school enjoyment is necessary for a secure future.

It would be game-changing to

convince Sasha that she can pursue her genuine passions <u>and</u> set herself up for success.

HMW make curating a college app like therapy?

Sasha POV

We met

We were surprised t notice

We wonder if this means

It would be game-changing to

Sasha, a high schooler coaching volleyball obsessed with

Top Solution #2

A platform for fostering deeper connections with your teachers so they can understand who you are and support you with more personalized recommendations, advocacy, and interactions.

and set herself up for success.

pite enjoying it, in er on her college

ol enjoyment is

ner genuine passions

HMW make combining handwritten notes cleaner and faster?

Ryder POV

We met

Ryder, a high school student who combines digital group notes with friends to guarantee note quality.

We were surprised to notice

that he doesn't combine notes with other students in his hardest subject, math, where he prefers to write his notes on paper.

We wonder if

he distrusts the quality and accessibility of other students' notes when they aren't made collaboratively.

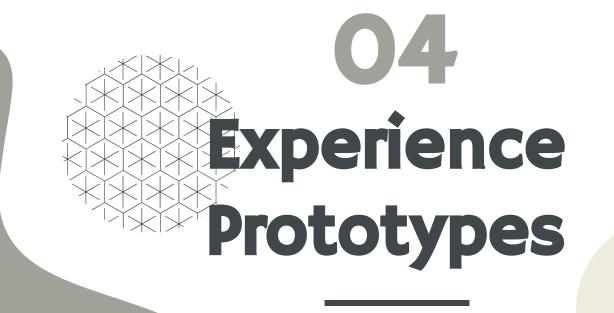
It would be game-changing to

enable Ryder to feel confident in his peers' notes, even when made independently, lessening his personal note-taking burden.

HMW make combining handwritten notes cleaner and faster?

Ryder POV

Ryder, a high school student who combines digital group We met ality. students in his We were surprise Top Solution #3 o write his notes notice Al that goes through different students' handwritten notes and highlights the major of other students' We wonder if factual differences between them. ely. 'notes, even It would be .s personal game-changing to note-taking burden.



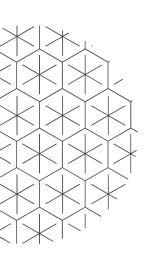
Prototype #1: Background

Solution:

Make a list of broad interests/areas of interest that generates actionable ideas/hobbies that could be relevant to college apps and acts like a bucket list of things to do.

Assumption:

Bucket lists are approachable and not overwhelming



Prototype #1: Procedure

Task:

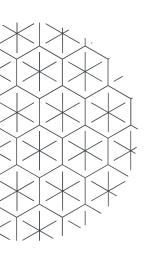
Present participants with a short **bucket list** of activities to do in the nearby area. Have participants complete as much of the bucket list as they want. Afterwards, ask:

-What did you feel when you first saw the list?
-What was doing the tasks like?
-[For any tasks they didn't do] What prevented you from doing that task?

Participants:

Anjali, a new college freshman, and Sam, a high school sophomore.

Recruitment: T&C (high school), asking for contacts (Stanford)







Prototype #1: Results

What Worked

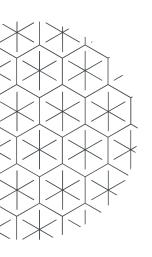
- Both participants
 completed the whole list!
- Checking off items gave people a sense of accomplishment

What Didn't Work

- Too many items can be daunting
- Inadequate resources can put people off

<u>Learnings</u>

- People tend to tackle
 easier tasks first
- The assumption was validated, so long as the list is manageable



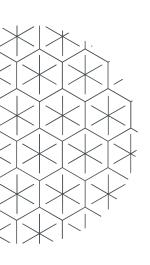
Prototype #2: Background

Solution:

A platform for fostering deeper connections with your teachers so they can understand who you are and support you with more personalized recommendations, advocacy, and interactions

Assumption:

Students are comfortable reaching out to teachers for more than transactional conversations.



Prototype #2: Procedure



Ask each participant to think of a teacher they'd like to have a more in-depth conversation with. Ask them to draft an email to that teacher. Then, ask:

-What did writing that email feel like?

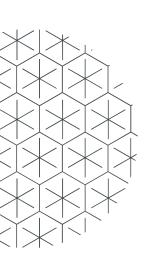
- -On a scale of 1-10, how comfortable did you feel writing that email?
- -Would you feel more comfortable if someone else was making the ask for you?

Participants:

Britney – a student looking for a coterm rec letter.

Joan – a high school student who had an underwhelming experience with a teacher.

Jack – a college freshman vaguely interested in research Recruitment: T&C (high school), asking for contacts (Stanford)



Dear Professor

I thoroughly enjoyed your lecture on Tuesday, and I hope you are well.

I am reaching out to you to inquire about any available research positions for your study on am aware that you are the lead researcher for the groundbreaking study and I would love to work under you. I have always had a deep passion for Therefore, I truly believe this study is perfect for my skill sets.

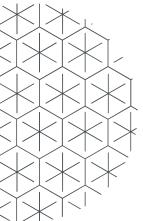
- 2.

Again, I completely understand the nature of this email, so no worries if you are unable to offer me a position. However, I am happy to answer any questions you may have or go into more depth on my experience. Please feel free to reach out to me at Thank you so much for your time and I look forward to seeing you in lecture soon.

Thanks,

Prototype #2: Results





What Worked

- Students were willing to write the email
- Average comfort was rated as a 6.7/10

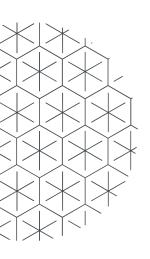
What Didn't Work

- Reaching out to previous teachers felt "pointless"
- Students were worried about big asks

<u>Learnings</u>

- Students want to know someone wants to be contacted
- Students like having outside support
- The assumption was somewhat validated

Prototype #3: Background



Solution:

Al that goes through different students' handwritten notes and highlights the major factual differences between them.

Assumption:

Students think it's worthwhile to cross-reference their notes with others to check for inconsistencies

Prototype #3: Procedure

Task:

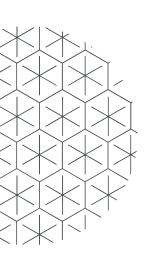
Dictate information for the participant to take notes with, knowing they will be quizzed. While they are reviewing their notes, ask them if they'd like to compare with other students' notes. After the quiz, ask:

-Why did you (not) take the notes?-[If taken] Did the additional notes affect your answers?-What were you thinking while taking your own notes?

Participants:

Mack, a college freshman who exclusively handwrites notes.

Recruited via reaching out to frosh for contacts.



- Shows contille spp mod bones - lighted, more flexibe

octops untomass bairs, on auns, news

Barmuns and sotter issusper performance interior

I toway: laylingen Priorder, Arti-busteria

Lumbers: cuise short intestines

Hannes: 9880 chingenzers , bryunge

lighting: last resistance, easist routs, not always the follow

Butterfly: solar powered regulate cools transferring near warm up before confis

Eiffel: Christs in cold weather

Unicom: feel in Eurote medienal, prileved to day est possur

Share skelder = certil age (Aeribe, lightert. - 7 fast summes) fanunas= radioactive (x-40, hamless)

Coopus arms zour neurons (scani-independent from brain)

hary=anti sactoral (glucose oxidose > HZCZ)

humbert purp = cubes Cirkstinal elasticity -> hobbs territory better)

Human DUT= 98.87 Same chimps (1.2% -> borcin)

diff.)

rightning = least resistance (not fallest, easiest

Butterflies: solar govered (need heat, ecto thermic)

Eiffal terrer = shrints in cold (iron contracts, ~6

unicor myth = narwhal tusks (malieval Europe, believed to

Prototype #3: Results

What Worked

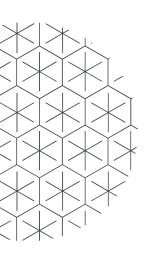
- The participant took the notes
- The notes helped Mack with information he didn't write down himself

What Didn't Work

- Mack still missed some answers
- Not everyone feels comfortable sharing notes

<u>Learnings</u>

- Students are willing to accept additional notes and find it useful
- The assumption was validated overall
- Handwriting is another concern for students





What's Next

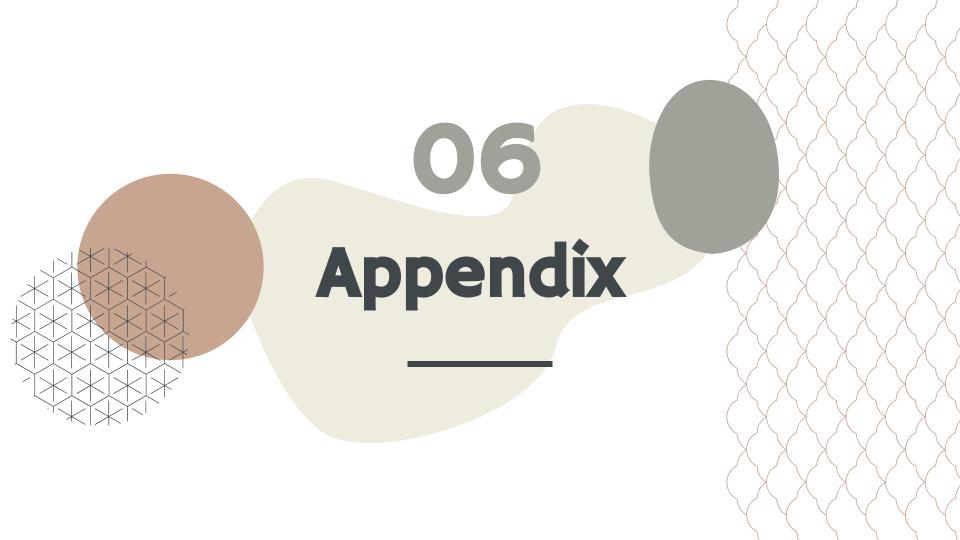
Moving forward with solution 2: A platform for fostering deeper connections with your teachers so they can understand who you are and support you with more personalized recommendations, advocacy, and interactions.

Ethical Considerations

- 1. Increased interactions could lead to more interpersonal conflict.
- 2. This could place an additional burden on teachers who already have full schedules.
- 3. Better recommendations for all students could reduce the efficacy of letters for students who need letters to round out an academically weak holistic profile.

<u>Our Solution Serves</u>: High school students looking for community and support in a school that may comprise thousands of students.

Our Solution might leave out: Students with social anxiety or teachers with limited bandwidth.



Ryder Empathy Map

Say

Likes chatGPT but has noticed it can't handle many prompts at once

Has considered culinary school instead of college

> Taking notes are more for cognition that for recordina since teachers share notes after

CS classes over the summer to get ahead

Wants to take

Turns to mom for help with applications

His chemistry notes are graded and have a specific expected structure

B+ is a kinda

bad arade

and C is a

"bad grade"

Would want to work for michelin star restaurant if pursuina culinary Think

People who get into fights at school are "dumb"

Taking harder classes is important for college apps

Can't afford to live in his hometown immediately post-grad from college

path His parents want/expect

him to do well

in school

Cooking is

an

insecure

career

School-provid ed tutoring is a waste of

Not challenging

classes are "bad"

and challenaina

classes are

"aood"

time

Has older friends to discuss college with class

Feel verv confident in answers from ChatGPT (compares it to Google accuracy)

Playing water polo will help him aet into college (aspiring college athlete)

Most important factor in choosing a college is the job you want post-grad

Studying computer science will lead to financial security

Has a shared doc with friends for takina notes in class

math notes because of equations

Signed up for

a private tutor

after getting

a bad math

grade

Volunteers through the Young Men's Service League

Checks Canvas at least once a day (usually at night)

Has chatGPT make him practice problems

Prefers to handwrite

> Starts smaller tasks first to get them off his plate

> > Visited the school's college counselor in middle school

Learns water polo tricks by watching the olympics and YouTube

Takes note to aid memorization

> Uncomfortable talking about

Feel

Let down and discouraged by recent quiz scores

> study skills he has learned from previous

Safety in

pursuina more

academically

riaorous

paths

Confident in private tutors

Peer pressured into takina AP and advanced classes

Inspired by recipes he finds or water polo he sees online

Slightly overwhelmed by the population jump from middle to high school (500 -> 1000)

Motivated to do well by his parents' expectations and personal pride

Relatively safe at school (as long as he acts "smart")

Joy in cooking



more academically riaorous classes 5 days into the

term

Switched into

fights in school

If the story is good the scores matter less

Say

"It's all about social capital"

> Dr. Parker + Dr. Bremmer Female PhDs her mentors / champions

Dauahter is already community member

College

Counseling

isn't about

judging a

student's

readiness

Storytelling ability are important

Colleges would say readiness = GPA/SAT

Writina /

English Teacher + Training & Money = College Counselor

Erica Empathy Map

It's not about admission; it's about continued mentorship

Easy to ignore her

comments on

Google Docs

Gains the

respect of

students

through useful

feedback and

not giving in

Wrote dissertation

on why SATs

capture a moment

and not resilience

of learning

High

Achievers are stubborn; hardest to work with

Think

College counseling needs a personal touch

Students might

look down on her

backaround

Pride for her

impact as an

advisor

counselina

Non-holistic applications leave people out and are incomplete picture

Relationships & Mentorship are verv important

Findina female PhD mentors was a critical piece for her

It's hard to succeed without support from mentors/adults

It takes time to craft your story

There are new resources but never enough

A solid story can

help students with

worse academics

get into college

There are untapped resources in school

Worked in admissions at alma mater: fell in love with

Reads, or

encourages

students to

read, aloud to

notice more

Worked for uni as "holdover" while studving for LSAT. but fell in love w/ admissions

SACAC NACAC

Teach for America

do good work

Sat with student 1 hr/wk for

Stanford app

Switched from

Wasn't good at science/math => concluded she was mediocre

Comm minor to majors thanks to professor quidance

Wrote a powerful letter that was the reason a student got into their university

> Coasted through high school as an avg student

Sends her daughter to school she works at

Feel

Responsible for advocatina for her students

Her purpose is getting to know

Inspired by the math and supporting teacher who her students switched to college

Empathy / Deep care for students

COMM is relevant to her role

Empowered by mentors' support and encouragement

Frustrated by high achievers resistance to her help

Empathy for students who don't have the support they need

Mount Vernon is a good place to go to school

It is hard to collaborate with the school

Say

Has 2 kids

"There's a lot higher stakes earlier on"

[teachers] understand

Some kids will pay services to make non-profits and list the kid as the founder

"We talk about intelligences differently."

"It doesn't read...as fantastically when a first gen, low income kid is running their parents business."

Left college

admissions to

work in education

consulting

"I don't think Al's influence "

"I'm a first aen kid. a person, and, you know...mv parents were immigrants."

"College is

expensive."

Worked while

she was a

student to pay

for school

Try to prove

herself in her

iob

Sue Empathy Map

"I want [my kid] to do it, you know...l really don't want her to be so college focused."

"I'm not there, and

they're supposed

to check in on her."

Tries to get into

contact with her

kids' teacher

about her 504

plan

Worked at a

Think

Wants success for her kids

Awards are

good

standardized

indicators of

success

Getting into college has turned into a game; the rich/connected win

There are barriers for first-gen students that other students don't face

College

admissions

officers don't

know how to

interpret FLI

applications

Worried about

her kids

overworking

Not all application look/should look the same

Al unfairly

benefits

some kids

It might be difficult for a student to realize what they really want vs. what colleges want them to be.

It's very important that the support that isn't comina from the parent is also effective

> Schools could improve the way they keep parents in the loop.

Let's her kids come to her when they're ready to talk about somethina

> Engages with her kids' classes/ activities as

much as they

want

Doesn't focus on grades with her kids

nonprofit foundation to help kids with scholarships

> Advocates for FLI kids in college admissions

Work with her kids' schools on LGBTQIA+

Feel

Impostor syndrome about her own background

Called to support kids who need extra help

Frustrated with the school admin

have to work

extra hard

Empathy for students who Proud of her oldest kid

Baffled by how selective colleges are these days

Cautious about how Al affects kids

Cautious about letting school take over "checking-in" on kids

Willing to share/draw upon her personal story when helping others

"Some [kids]

want to [take

notes1 the old

fashioned

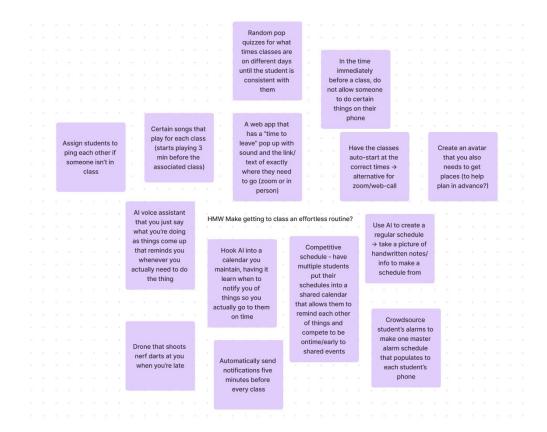
way."

Worked as an admissions officer without a fancy

education

issues

Solution Brainstorming Screenshots



Solution Brainstorming Screenshots Cont.



Solution Brainstorming Screenshots Cont.

