

Whispr

Problem Statement

- college-provided review system doesn't allow students to see the feedback
- no unified platform / forum to review and see past reviews
- previous attempt at dev was not adopted by the public at all. Total count ≤ 10
- absolute need of anonymity & privacy
NO TRACEBACK whatsoever
↳ challenge: edit/delete & spam
- need an intuitive UI
- need gamification to promote reviews

Core Features

- course review
- professor review

(non-functional) anonymity
& scalability

SCRAPPED

Date:

Mon . Tue . Wed . Thu . Fri . Sat . Sun

Notes

Date:

Mon . Tue .

→ + moderator : can delete

Anonymity - centric Design : **KEYS**

→ kinda making a password manager

[Need for a complex architecture: a simple post-&-forget system would be easily prone to SPAMs. Need for editing & deleting further complicates the matters]

Each user can submit a review for a course/prof only once. This is tracked using simple boolean values → reviewed or not reviewed

⇒ solves the problem of SPAM

For editing/deleting, the problem is even further complicated given our core value of anonymity.

Soln → each review creation leads to a corresponding key creation. These keys act as passwords for that review. In future, the user clicks on edit/delete → system checks list of keys (from cookies) → if one key passed → allowed, else not

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keys

UX :

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Upvote /

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advanced settings : ability to export / import
keys into the cookies. Always stored locally.
↳ possibly add a dynamic cap on
import size

UX : user should NOT feel any delays while
trying to create reviews. The ~~key~~ boolean
checking may take time . . .

CORRECTION → boolean entries - too much storage

- list of ids reviewed instead

↳ upgraded to a pickled set ✓

this may take time as well. so, the
checking happens asynchronously WHILE user
is filling the review form. Submit button
status changed.

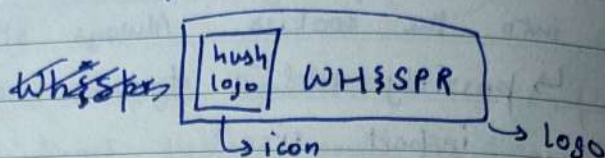
Upvote / Downvote Subsystem : again, anonymous

a set of ids of reviews that have been
voted. No edit. 10s undo window, the
upvote/downvotes maintained as counters
on the review entry.

Date: _____
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Notes

Branding : Whispr ??



"Speak softly. Help loudly."

~~anonymous~~ ~~unanimous~~

~~Developed by us~~

~~Designed~~

~~Designed~~

Personal propaganda → a design principles / phil.

page. Header:

Anonymous. Unanimous.

designed by unignoramus

Developed & Maintained by <OSDCA>

would contain this as a doc

as well as a relatively formalised
privacy doc doc???

Tsh yes

Date: _____
Mon . Tue . W

Gramifica

Upvote:

" Drop

A lock

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Date: Mon . Tue . Wed . Thu . Fri . Sat . Sun

Notes

Granification

Leaderboard :: ~~Silent~~ ^{Quiet} stars ~~Heroes~~

point system: echoes

every review: ~~+10 echoes~~ +10 echoes

Ranks (also displayed somehow on profile)

0-99 New Voice

100-499 Lowkey

500-999 ~~500-999~~ Trusted whisper

~~1000-1999~~ ~~2000-499~~ Silent Force

2000+ ~~500+~~ The One who Knows

Upvote: +1 Downvote: -1 Report (accepted): -20

"Drop a whisper"

A locked on anonymity toggle: ☒ Hidden. Always.

⋮

→ logo

iples / phil.

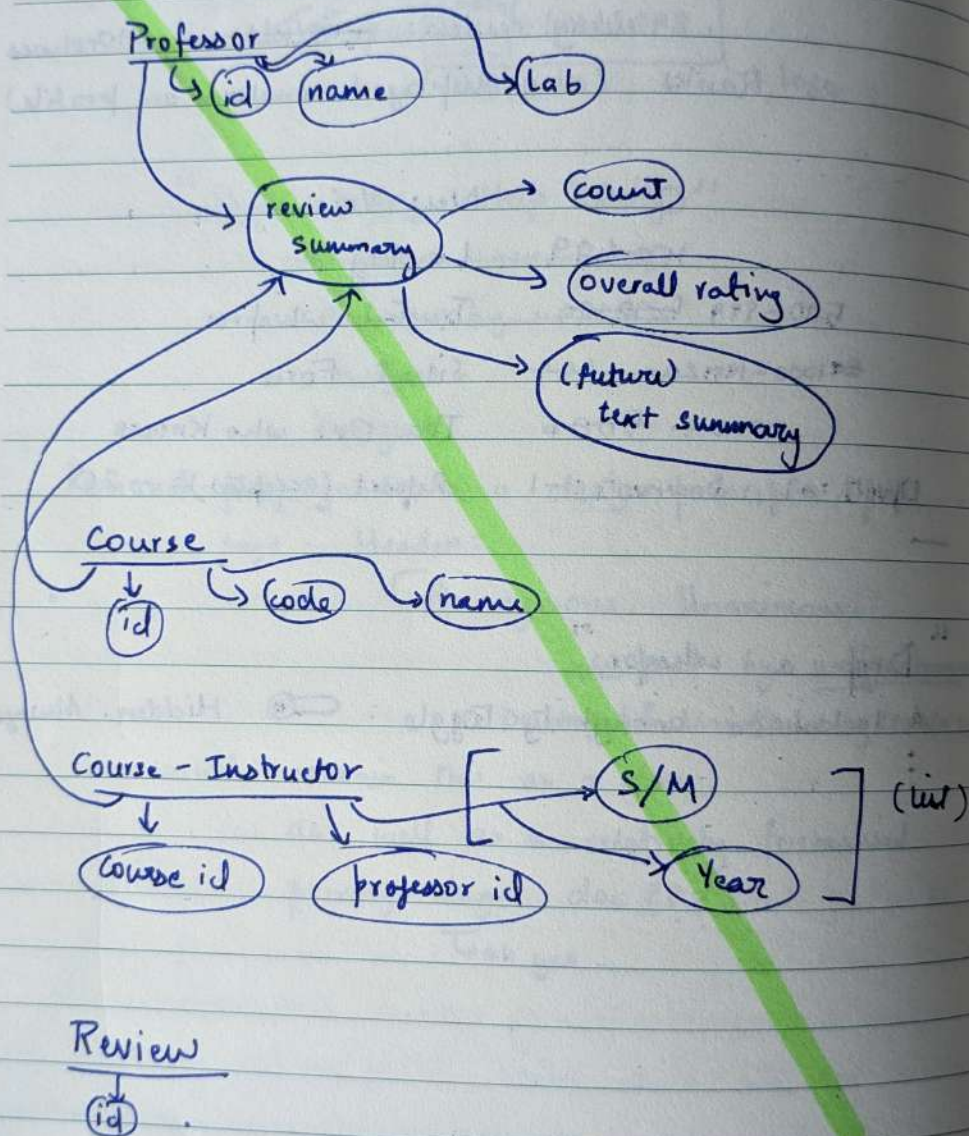
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formalised

Database Design :

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⇒ Pseudonym-based design

[Popular demand] - poll on SPAM grp

- Benefits :
- accountability
w/o compromising on anonymity
 - echoes can be used to order (sort)
the reviews :- built-in user
feedback system
 - effect of upvote / downvote ripples
throughout the profile (like karma)
 - ability to report

Overall idea / flow

] (user)

Landing Page - visual overview, showcase
Basic login / signup → default: unverified
(muffled status)

can only view ↙

can NOT vote / post / rate

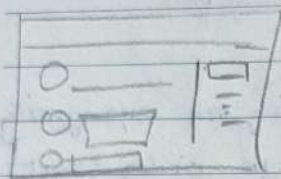
Need CAS login once to verify - that a/c
demarketed as used (no link to actual profile)

→ promoted to new voice status

Tabs / Views

(Home)

- Dashboard: greeting, basic stats: views, votes, echoes, rank, leaderboard,
 ↳ most of these as a sidebar as well as a notification panel on top - votes, promotions...



main view - feed with reviews from 'quid' stars' they follow + some recs.

got a better idea

~~→ Courses (search & view): search, sort, & filter reviews for courses~~

~~- Professors (search & view): search, sort, & filter individual professors~~

- course (individual): course doc, syllabus, basic info, instructors, then reviews

- Professor (individual): professor profile,

- User Profile : automatically rank-based avatar (try unique-username seed)
 username, (optional) tolerating this college since..., (optional) bio, their rank, echoes, then all their reviews with sort & filter & search - basically the same backend fn but with extra username field
 Ability to edit details of own profile

- Settings : → change username
 → change theme (light / dark)
 → kill switch



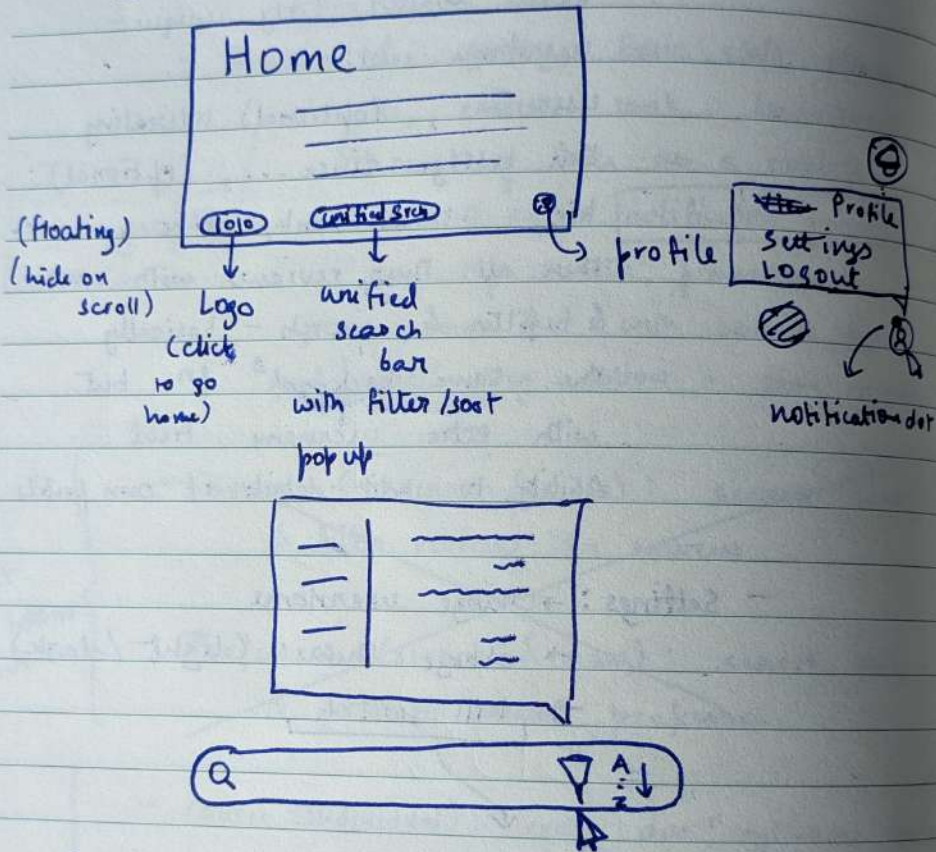
an ACTUAL kill switch -

pop translucent cover off (show warning)

flip it.

- ↳ deletes all reviews, comments, votes
- ↳ recommends changing username

UI : no navbar



→ would have a search results page associated with it

Tech Stack

Backend : Fast

→ scalab

→ fast

→ possi

→ Python

Frontend : Ne

→ fast

→ dyn

→ SSR

Database : M

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→ sc

Tech stack Plan:Backend: FastAPI

- scalable
- fast
- possibility of ML integration (recommendation systems)
- Python - powerful

Frontend: Next.js, React, Typescript, ShadCN for components

- fast
- dynamic
- SSR

Database: MongoDB

- noSQL
- fast
- scalable

DesignAccent: green

main theme

would be light,

Avatar is the

Dark Vader

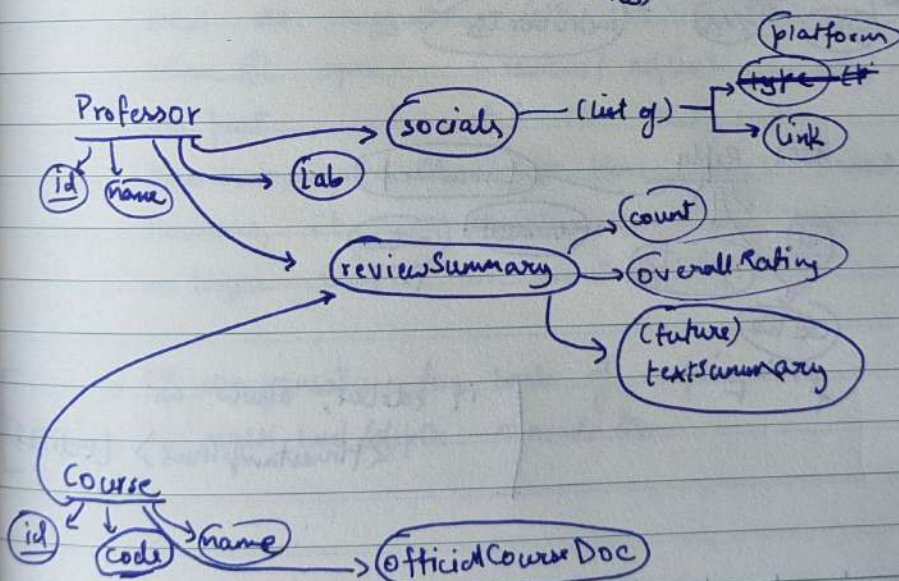
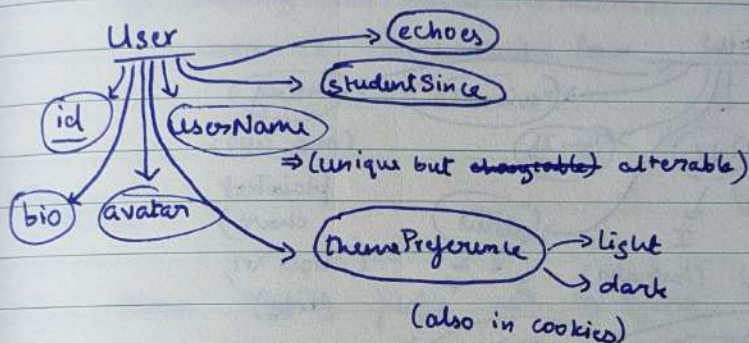
(dark mode managers)



page associated

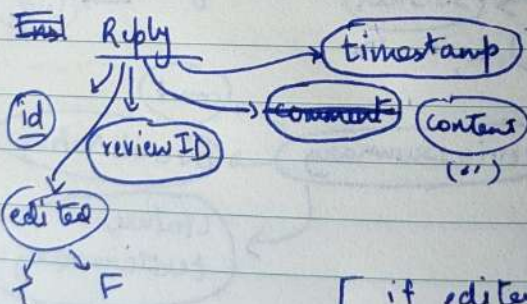
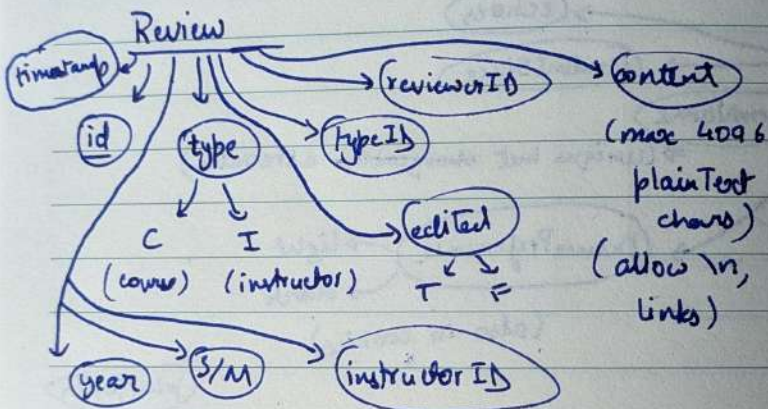
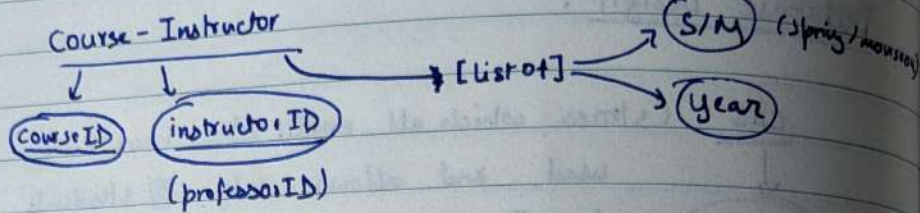
Database Design :

CAS (stores which all email IDs have been used, and allows only @students & @research domains)



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if edited, show as:
 <timestamp(new)> (edited)

Date: _____
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★ Important

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Eg:

Tagging :

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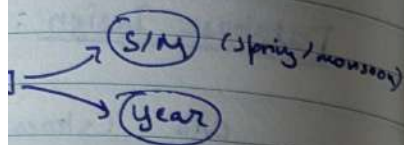
How

How

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content
max 4096
plainText
chars)
How in,
links)

al, show as:
timestamp(new) > (edited)

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★ Important UX perspective:

all loading should happen in the in
interaction bubbles (made-up term) (patent pending)

Eg: fetching the correct instructor(s) while
user is filling review form

Tagging:

Allow tagging people with @ syntax. Also
show ~~at~~ suggestions (like WhatsApp / Discord)
when @ open. (reviews / replies / comments)

On post, send notif to that user.

~~However, if the user~~ Hover - profile card

However, if username changed, display user
no longer exists or something blurry

↳ compensates for lack of replies or
multi-level / depth threads too