

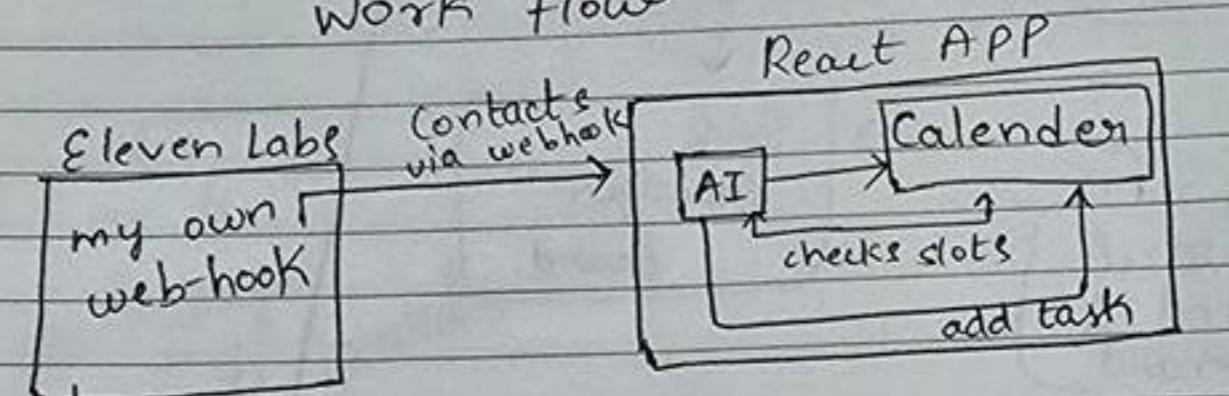
February 21 Dec 2025

05 Wednesday

# Started Application Build

React application

Work flow



Made my own  
I have ngrok and can  
tunnel local host 3000.

06 Thursday

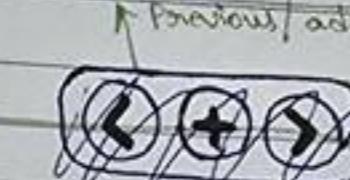
Yup, that agent works!

Feb	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

2025

February

Flow Chart UI idea:



Previous/next.

Friday 07

Title

Link  
two  
boxesadd  
comment  
line

delete

undo/redo

Your Plans

Start (Java)

Learn Collections,  
streams.

End of Ed

Project on Java  
Basic application  
on java.Application with UI  
Basic java GUI  
program

Saturday 08

? Grey  
semi-transparent  
backgroundThin  
white-grey  
lineOutline with white & grey  
gradient and  
half-transparent background

Features:

- Auto Save
- ~~Multiple Boards~~
- Multiselect and move
- Comments between lines
- Panning, infinite canvas
- Scroll to zoom in/out
- Auto expanding rectangles

Grouped Selection 

Sunday 09

Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

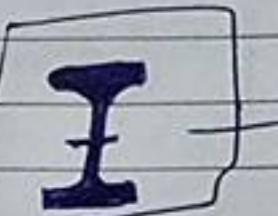
Dec 29<sup>th</sup> 2025

February

10 Monday

### Libraries Used / Dependencies

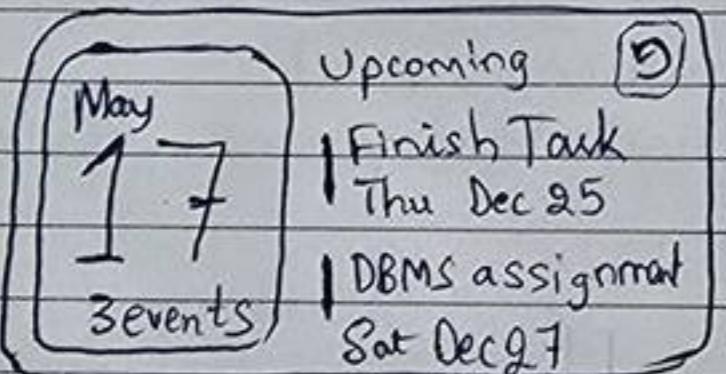
- (i) Reactflow for flowcharts.
- (ii) motion
- (iii) iconpack-react for icons in the dock
- (iv) @xyflow/react



Converted to white using python's pillow

11 Tuesday

### Custom Widgets:



→ Google Calendar API

→ gapi

→ google OAuth

→ Sync Custom

→ Fully flexible

Dec 29<sup>th</sup> 2025

February

2025

Date Widget

Didnt Use

Wednesday 12

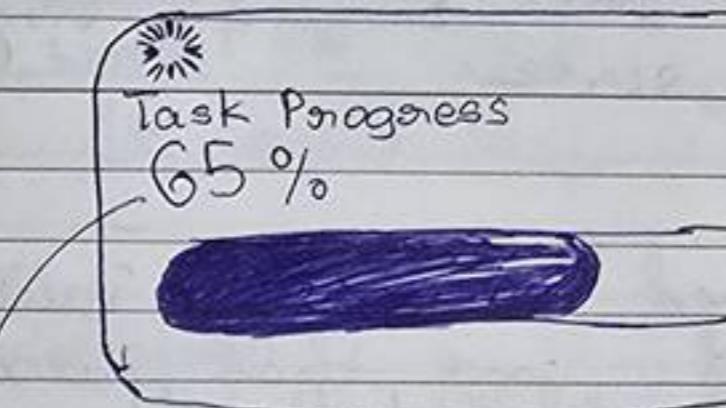
May

27

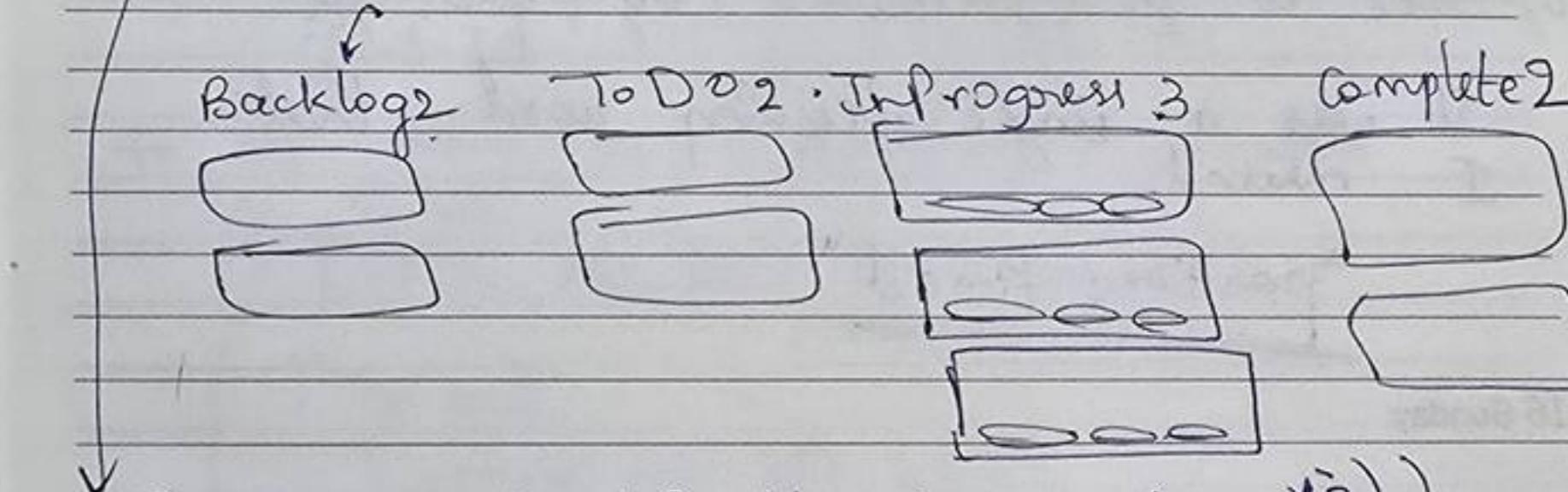
W Th F Sat S M T  
14 15 16 17 18 19 20

57% Day 17 of 31

### Progress Bar:



Thursday 13



$$\text{Progress%} = \frac{(\text{no.of Complete} + (\text{no.of In Progress} \times 3))}{\text{Total Tasks}}$$

$$\Rightarrow \frac{(2+3*3)}{9} = \underline{\underline{33\%}}$$

## *February*

14 Friday

Dec 24<sup>th</sup> 95

2025

most annoying bug:

The viewport is not filled completely  
No matter what I do, No css changes,  
no html change fuckin worked.

→ Tried Claude, ChatGPT, Gemini all the goddamn models available.

→ 2fuckin hours of just banging . my  
head to the screen

15 Saturday

→ finally I guessed where the issue could be and gave that piece of code to get reviewed by chat gpt

it was a single fucking word that I missed.

"position: fixed"

16 Sunday

202.

Dec 24<sup>th</sup> 25

## February

Monday 17

## Google OAuth:

L> Works on Client ID & Client-Secret.

↳ flag an issue of not recognizing client ID's.

↳ Client-IDs work with only certain API's created within their environment.

↳ When I had to make the calendar-event widget, The sign-in page would not work at all.

It would say "Invalid request."

Tuesday 18

### Notes:

Remember

which api-key is related to which Client-ID.

to set them as environment variables

$\Sigma$ , To set:

```
Setx API-KEY My API key 178 ] ✓
```

To get:

[process.env.API\_KEY]

\* Or go change <sup>in</sup> environment variables.

February

19 Wednesday

Dec 24th 2025

2025

→ Nothing will ever go as exactly as we plan.

· Somethings workout better than we intend them to and some can't be achieved with current skill set.

→ Logging everything, learning from mistakes, fixing bugs, thinking of much creative ways to solve problems in code is as perfect as it can get in terms of chaos.

20 Thursday

That's the beauty of life though right.  
Everything that is chaotic is beautiful

2025 Dec 24<sup>th</sup> 2025

Calendar Widget Working.

February

Friday 21

Google  
Server

(API request)  
API-KEY

OAuth

CLIENT-ID

User  
1st time  
Sign In

OAuth can get set.

Saturday 22

OAuth Consent Screen is set in "console.google.cloud.com."

At this point I remember all the URIs and VRT's.

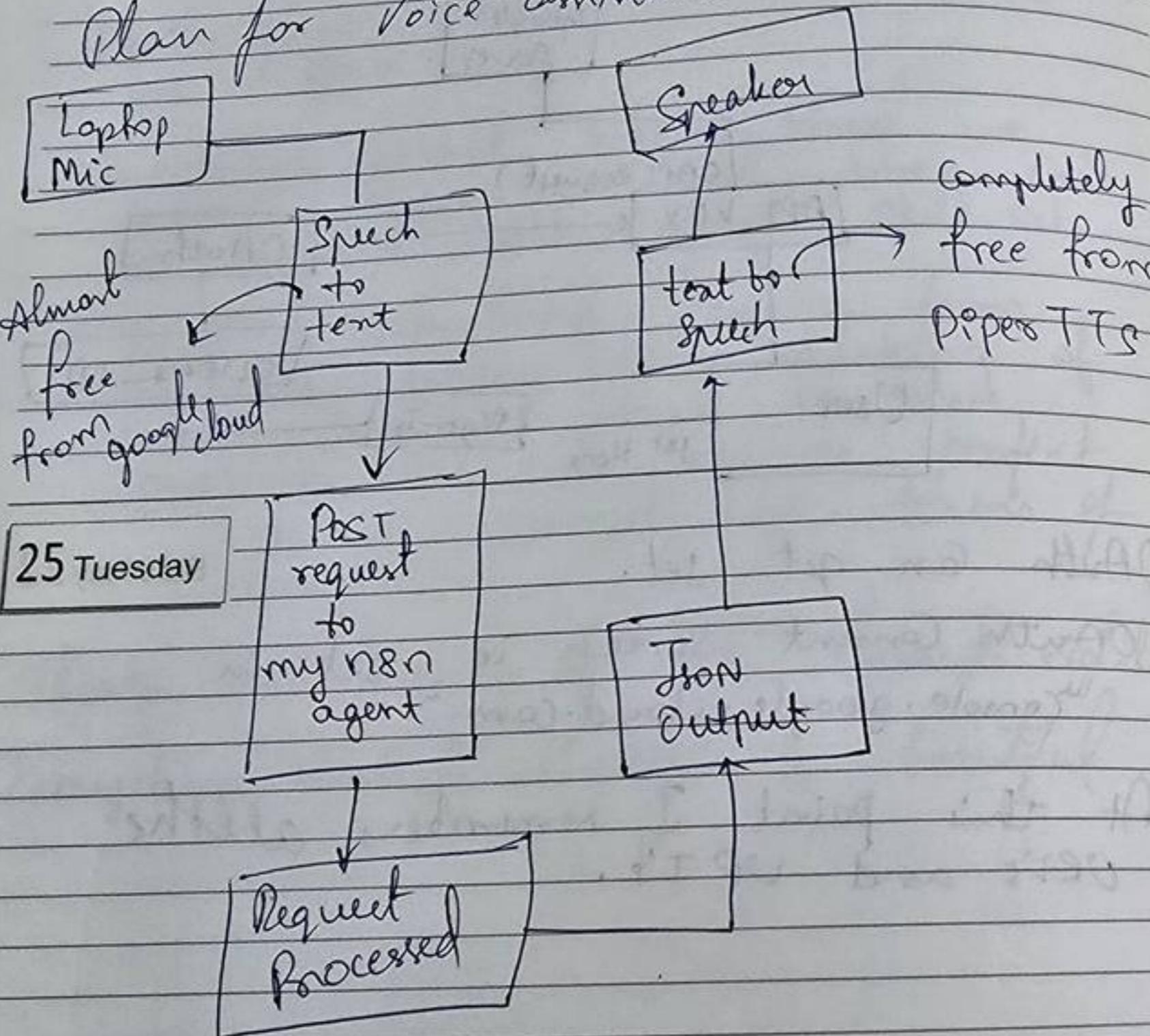
Sunday 23

February

24 Monday

Dec 24<sup>th</sup> 2025

Plan for voice assistant:



25 Tuesday

2025

Dec 25<sup>th</sup> 2025

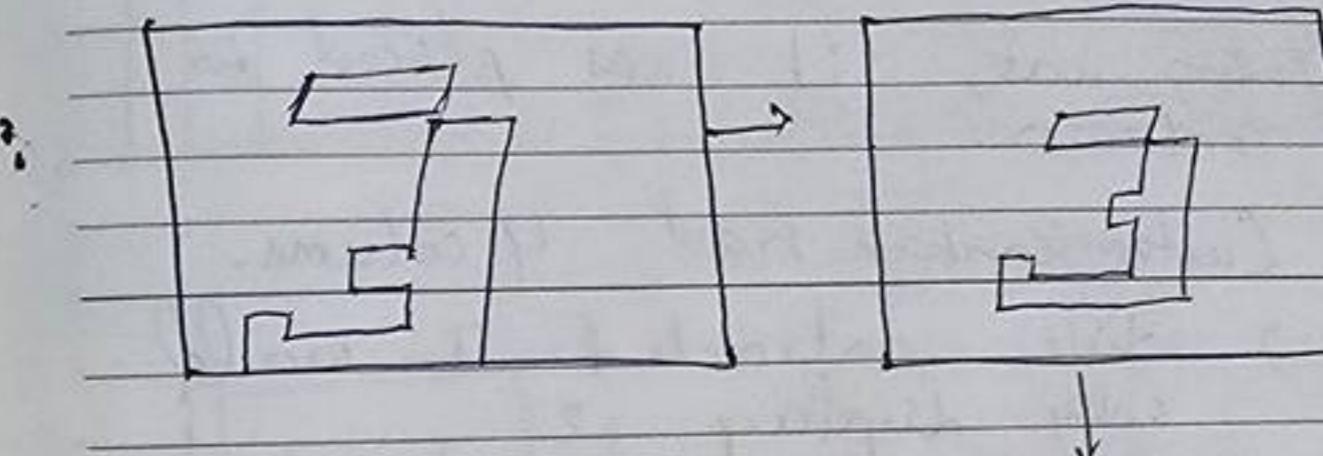
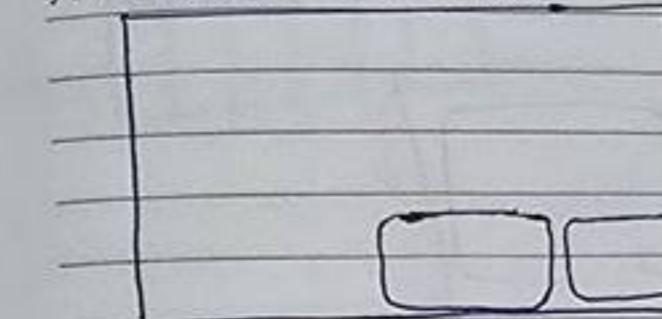
February

Wednesday 26

2025

Page Reload animation Idea.

Actual Content



Thursday 27

Block Reveal to original.

Don't忘 Great

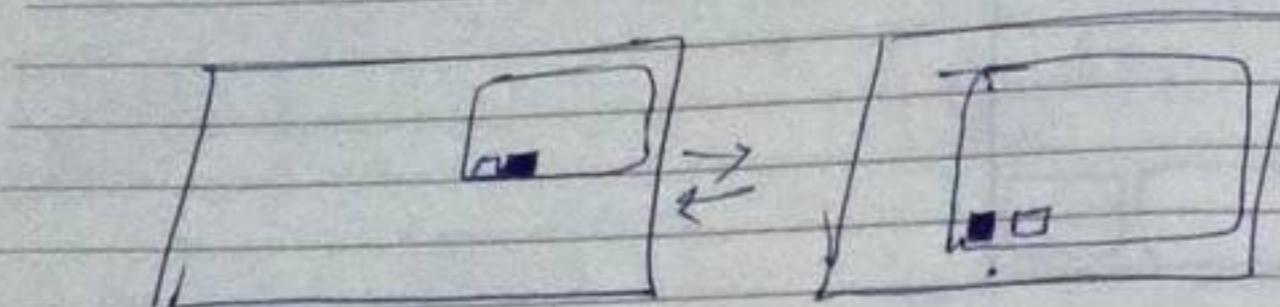
Feb/Mar

2025

28 Friday

Dec 25

So I made an expandable Kanban Board



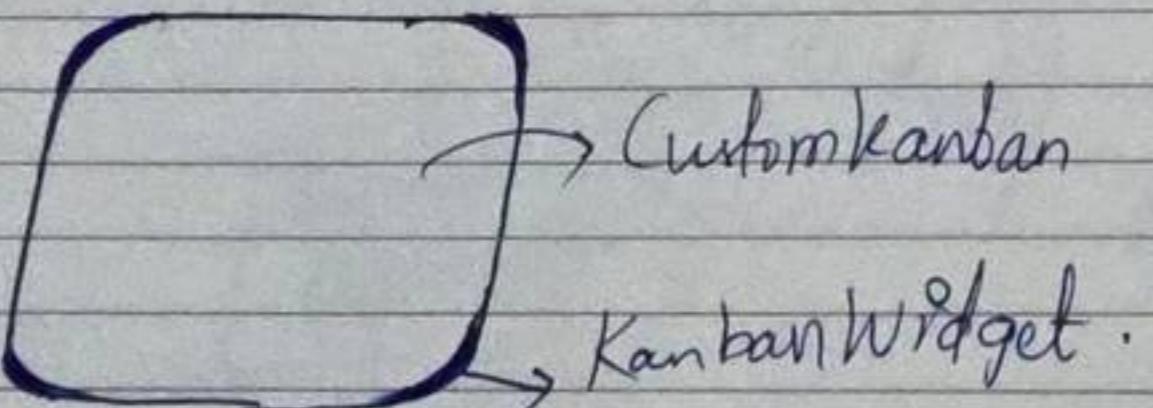
The thing was, it was placed in a container.

→ Customkanban had 4 columns.

01 Saturday

→ while contracted I would only display 2.

⇒ while expanded, I would show and render ALL 4.



02 Sunday

KanbanWidget is tailwind.

so border radius is max 24px.  
you could do more and it would break. I thought it was drop shadow.

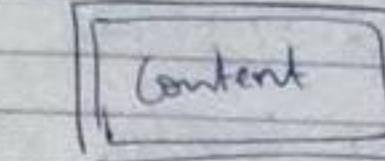
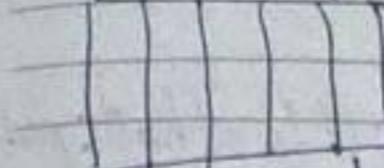
March

Monday 03

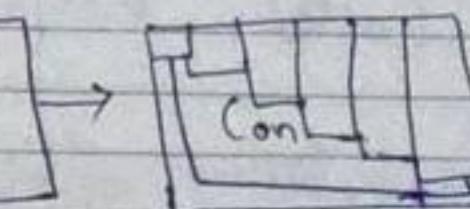
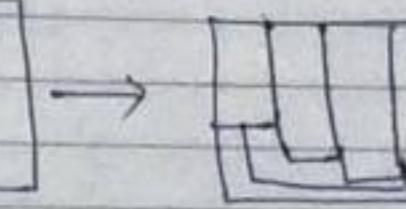
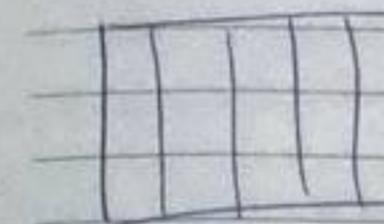
2025 Dec 25th 2025

Learned from GSAP Block Reveal.

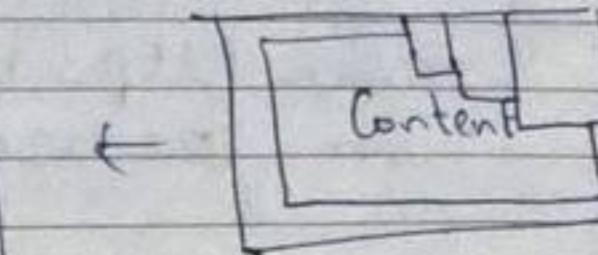
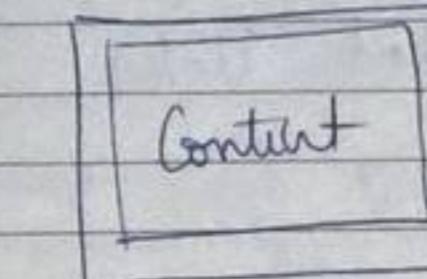
→ Blocks



Above the content



Tuesday 04



All of this Graphic intensive. It's better to run on GPU.

I have a GPU. What if you don't.  
Workaround I got through.

Load Content below before blocks and then reveal blocks with scaling content animation  
very CPU efficient.

Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Ap						
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Ap
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

March

Dec 26

2025

05 Wednesday

Primary issues with ElevenLabs

↳ Needs a https:// link

(I hosted ntn locally via http://localhost:portno)

↳ So I have to tunnel the port to  
hosted https:

Port tunnelling options

06 Thursday

Ngrok

↳ have to create a free acc.  
↳ Only http hosted links  
for free acc.

Pinggy

↳ No account setup  
↳ paste command and get  
https:// hosted link.

Only for 60 min.

Only option is pinggy. Cause I need a "https"  
link for ElevenLabs.

Dec 26<sup>th</sup>

2025

March

Friday 07

2025

Other Credit Constraints.

has only 10,000 free credits.

which is used as 1min = 1K credits.

Max of [600k] comes.

and have to wait one extra month  
for credits to reset.

Own Version (Voice Assistant Widget)

↳ speech to text api (Google)  
"60min" per month.  
(more than enough) → Made my own  
anyway Saturday 08

↳ text to speech api (pion TTS)  
life time free, runs locally.

No way is my version as polished  
as ElevenLabs, but it is free.

Thats the best part.

All other ntn guys act like everything  
is free, while it actually isn't.

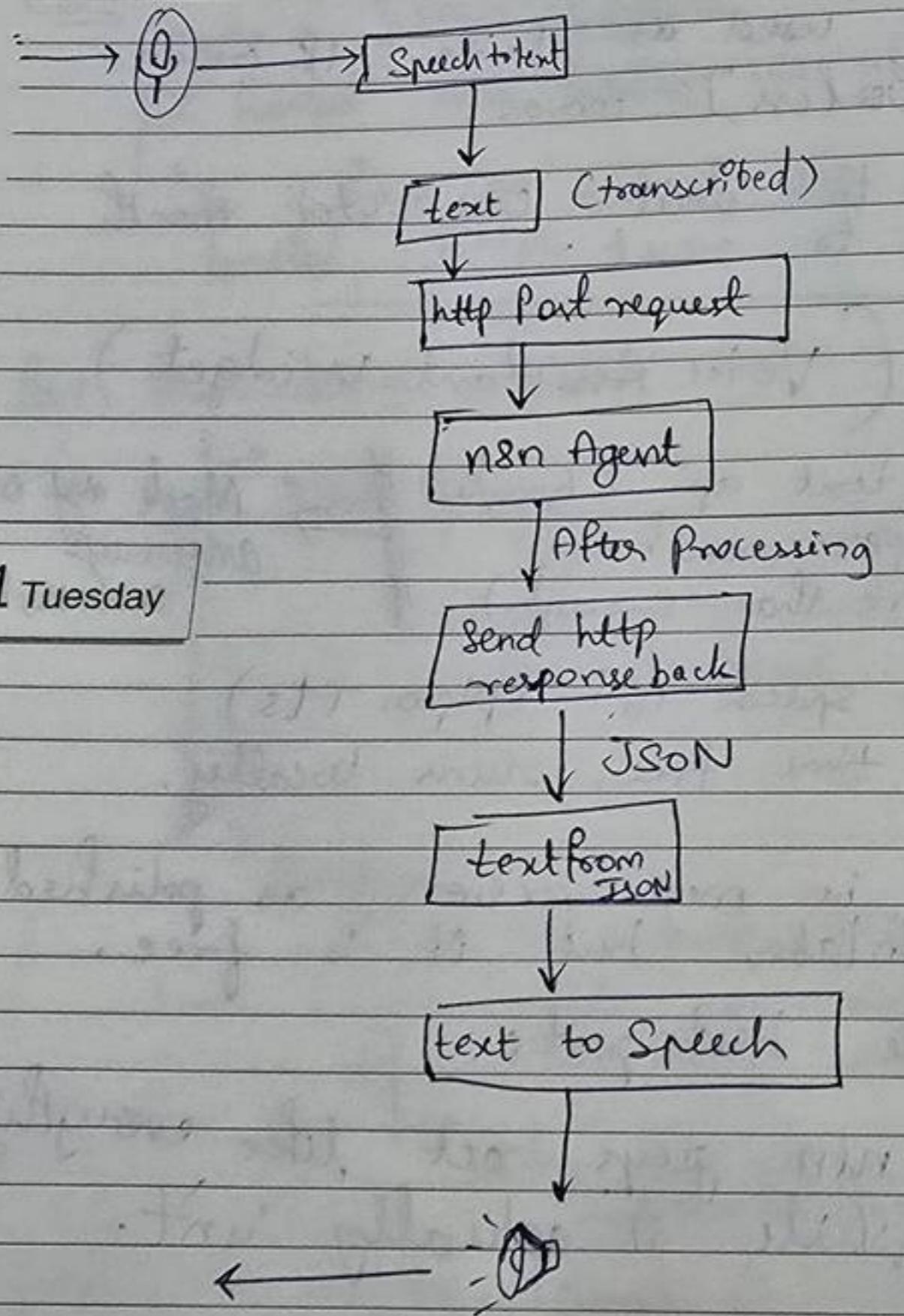
Sunday 09

March

Dec

2025

10 Monday



11 Tuesday

2025

Dec 26 (2025)

March

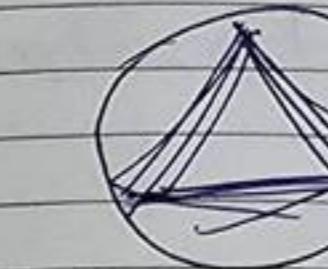
Wednesday 12

Backgrounds

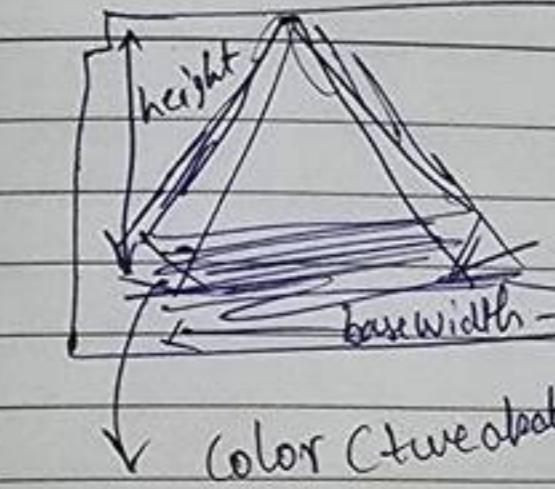
- Prismatic Burst (Parallax)
- Beams.

Prism<sup>4</sup>

↳ Voice Assistant -



Voice Reactive Orb

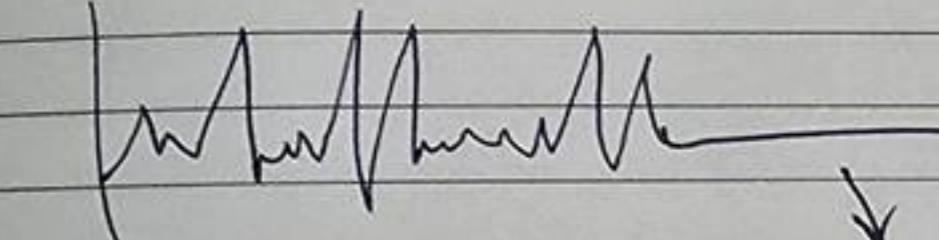


Thursday 13

scale

glow.

color (tweakable)



we get smoothed amplitude from it

then we calculate scale, height, glow, hue, baseWidth with the live amplitude.

Mar	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Apr			
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Apr
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	2025	

March

14 Friday

Dec 26<sup>th</sup> 2025

2025

I previously created ChatUI which a super basic chat model.

I did not know if it would be useful at all but today I used "VoiceOrb" with it.  
(Nothing Even Goes Waste)

15 Saturday

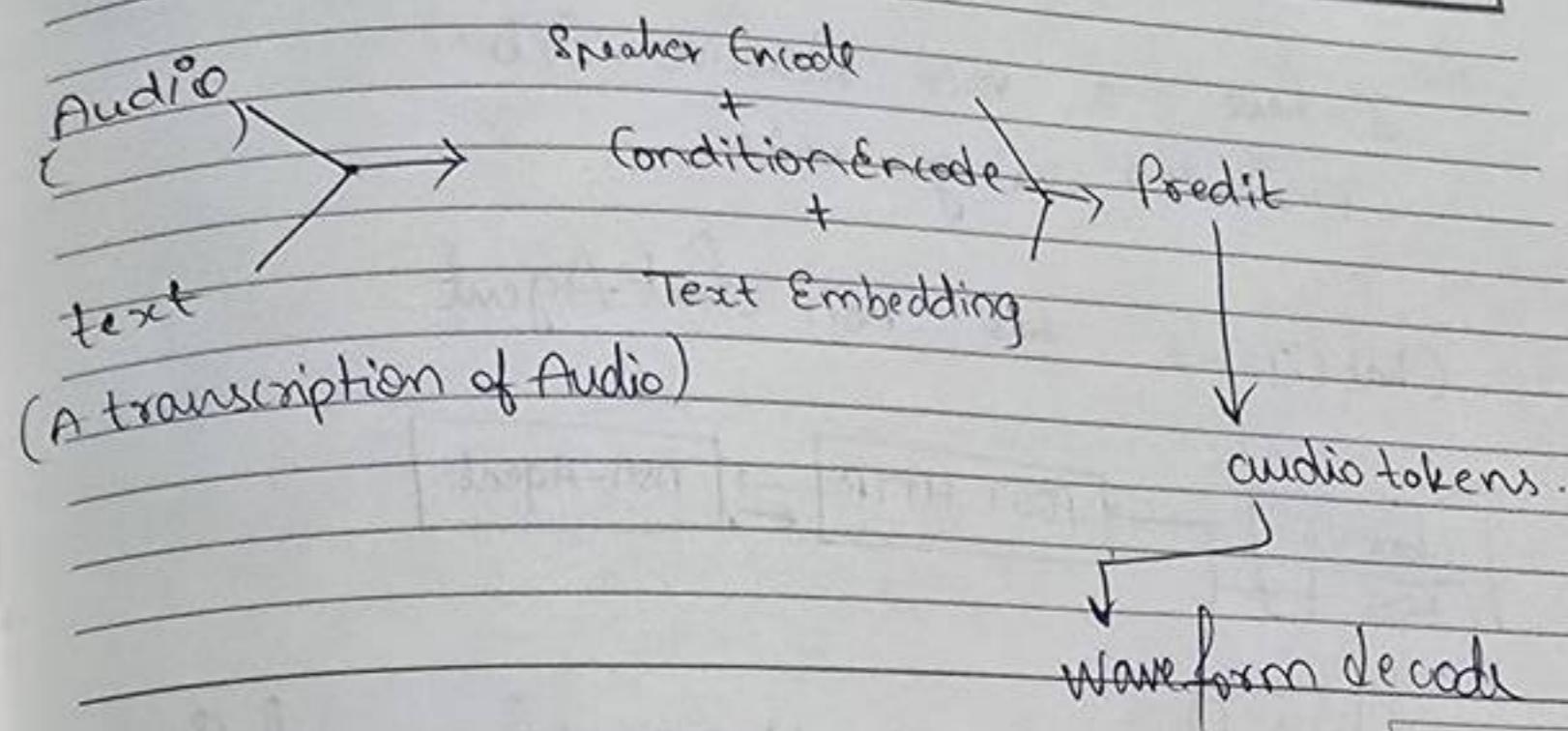
16 Sunday

Dec 26<sup>th</sup> 2025

March

Monday 17

How Voice (or) Speech to text works



Tuesday 18

March

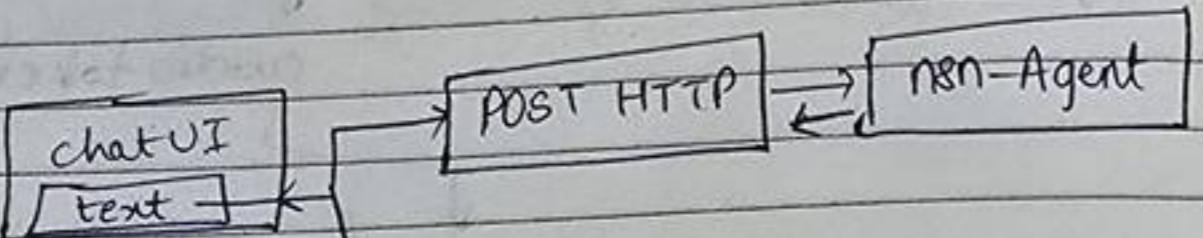
19 Wednesday

Dec 26<sup>th</sup> 2025

2025

So I have a voice Reactive Orb.  
Animated using voice.

ChatUI → has nsn chat Agent



20 Thursday

Voice Orb

await animation until request is received.

But request is received as text.

↓  
text to speech.

March

Friday 21

2025

Dec 26<sup>th</sup> 2025

text to speech

↳ piper TTS

↳ requires voice model

(a .onnx file)

Creates a .wav file for almost a minute long transcript in 1 sec.

piper TTS runs in Python



↳ I created a Server with port "5002"

Saturday 22

I fetch that port and send my http request (POST) with text and it gives me a .wav output, that plays on the web.

Sunday 23

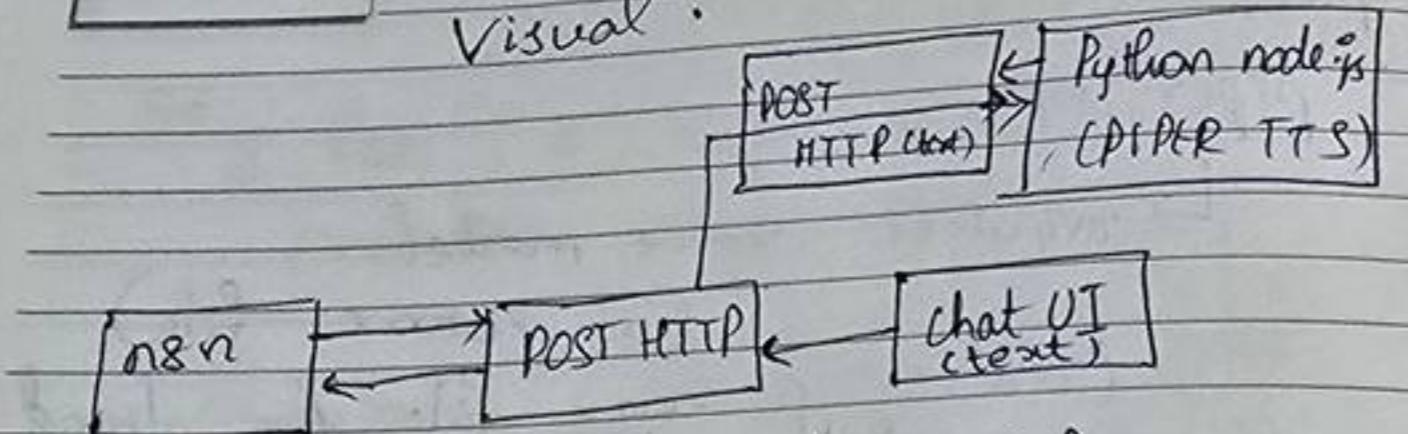
March

24 Monday

Dec 26<sup>th</sup> (2025)

2025

Visual.



As of right now,  
Text  
n8n → hosted locally → Docker

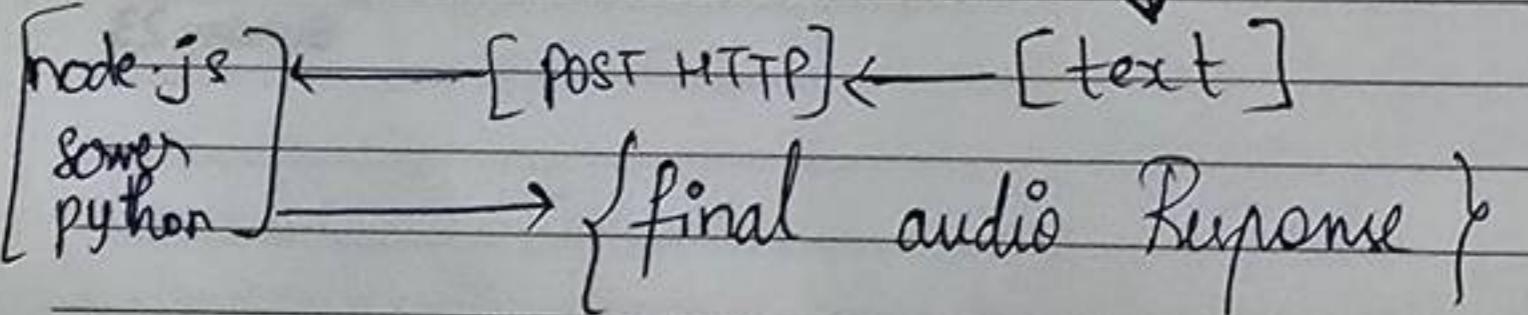
25 Tuesday

React web APP → hosted locally → Port 3000

Piper TTS → hosted locally → node.js  
python  
port 5002

{text} → [POST HTTP] → [n8n]

↓  
[Response]



2025

(<http://localhost:5002/tts>)

Webhook

Python node.js  
(PIPER TTS)

Dec 26<sup>th</sup> 2025

March

Wednesday 26

function in  
serves that  
handles request

n8n

<http://localhost:3678>

chat webhook

↓  
<http://localhost:3678/webhook/1/chat>

specifies  
chat trigger

Thursday 27

Web APP

<http://localhost:3000>

March

28 Friday

port 5002

Python node.js  
server  
Piper TTS

n8n server  
(Agents)

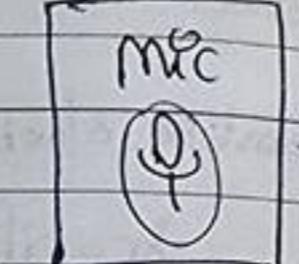
port 5678

29 Saturday

port 3000

chat UI  
.Osb

text



Google STT API

~~This did not work out~~  
so changed to whisperCPP STT

30 Sunday

2025

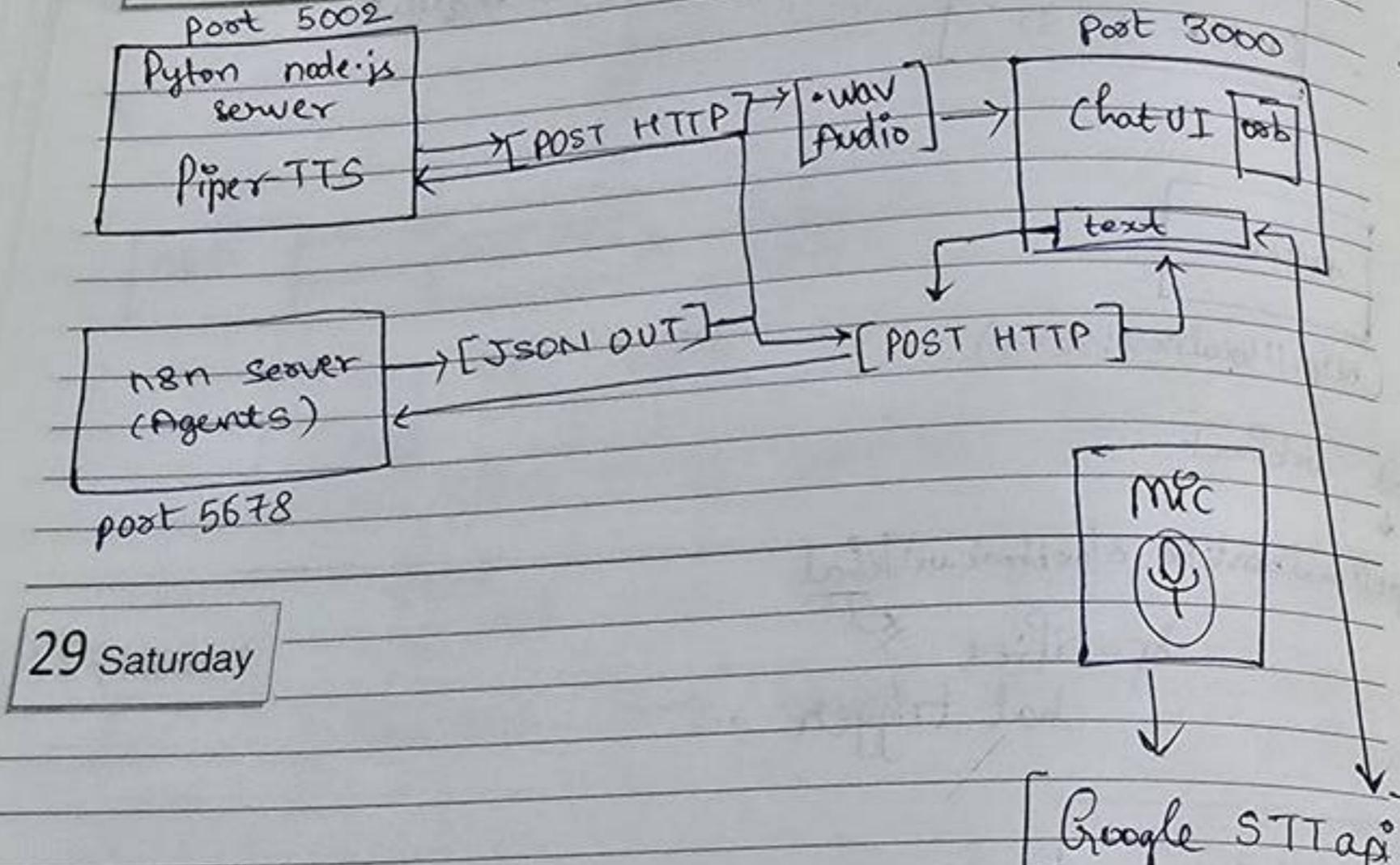
Dec 26<sup>th</sup> 2025

Mar/Apr

2025

Dec 27<sup>th</sup> 2025

Monday 31



Actual Workflow

Speech to text : whisperCPP model

Text to speech : piper TTS ("hfc\_femalevoice") model

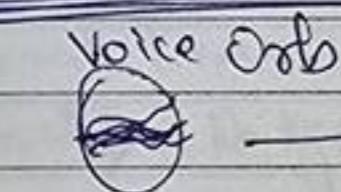
Python Server  
(whisper STT)  
+  
tts  
(Piper TTS)

while voice Oob is working

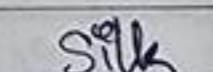
Tuesday 01

Silk background gets clappy and randomly disappears.

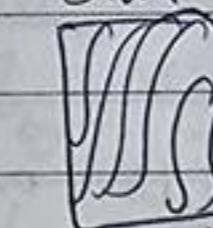
{ GPU → overload }



isWaitingforResponse = true



!isWaitingforResponse = true



it displays a static Image.

April

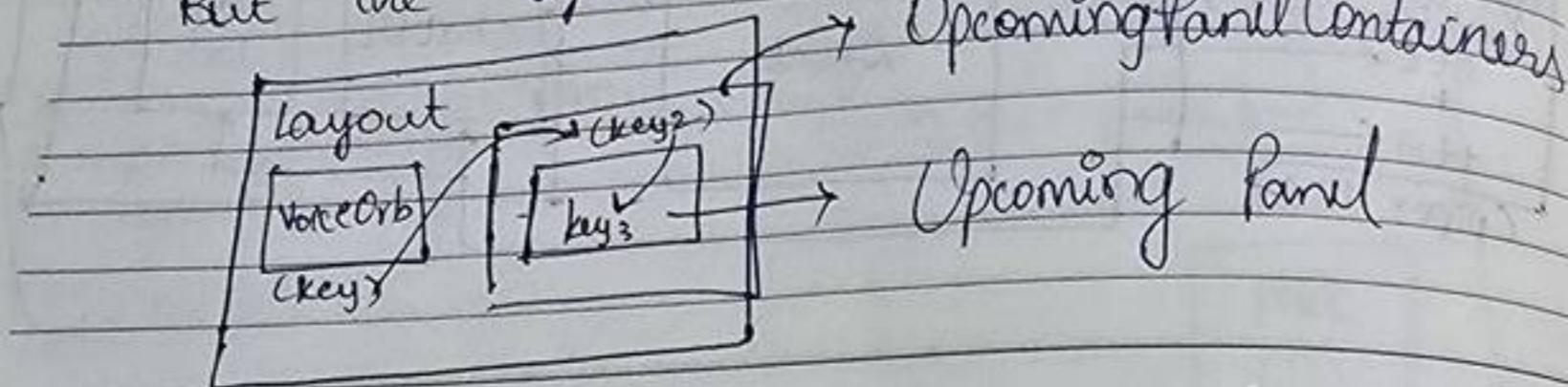
Dec 27<sup>th</sup> 2025

2025

02 Wednesday

This had to be applied in "UpcomingPanel"

But the layout is:



03 Thursday

So that means, we have to pass "isWaitingForResponse" to VoiceOrb from ChatUI

↳ that has to be passed into UpcomingPanelContainers

that has to

be passed to UpcomingPanel

( Didn't fucking work )

Because micOn also exists and this is the only way to wait for response.

April

Dec 28<sup>th</sup> 2025

Friday 04

So, I made a function in "IntegratedContainer", that returns if mic is truly idle or not.

if (micOn == false & isWaitingForResponse == false)

↳ Only then it is true.

const micOn = false

const isWaitingForResponse = false.

export default isIdle() {

return !micOn & !isWaitingForResponse;

Saturday 05

export default IntegratedContainer {

} }

~~useEffect~~

const [micOn, setMicOn] = useState(false);

const [isWaitingForResponse, setIsWaitingForResponse] = useState(false);

useEffect () {

- micOn = micOn

- isWaitingForResponse = isWaitingForResponse

} → Syncing with global values.

Sunday

April

07 Monday

Dec 28<sup>th</sup> 2025

2025

in Upcoming Panel:

if (idle) → Renders Silk

else → Shows a static image.

08 Tuesday

(about) don't know  
about Container's frame  
about how to make it work

2025

Dec 28<sup>th</sup>

2025

April

Wednesday 09

In layout

when I added Gradient BG directly with its setting, it spoiled the position of few canvas container and also add "loop" Errors when I used "Kanban Reveal" which had layout.

fix is to create a separate container for it.

See, GSAP tries animation all parameter probably 60 FPS.

Thursday 10

April

Dec 29<sup>th</sup> 2025

2025

11 Friday

Added a new feature

↳ Any Node I select and click-send  
it will automatically add to  
KanbanBoard.

Never thought memory would be an issue.

→ Everyday issues solvers like undo / redo

12 Saturday

→ Saving memory state  
Especially in flowchart

Saving previous zoom state,  
position, all that stuff.

13 Sunday

Dec 30<sup>th</sup> 2025

2025

April

Monday 14

Voice Notes



Tap the mic to start speaking

{when I speak, sent to whisperSTT}

Text from WhisperSTT

Voice Notes



Text Title

Tuesday 15

swipeable stack  
from React Bits.

Updated Style.

Voice Notes



Send extracted tasks to kanban

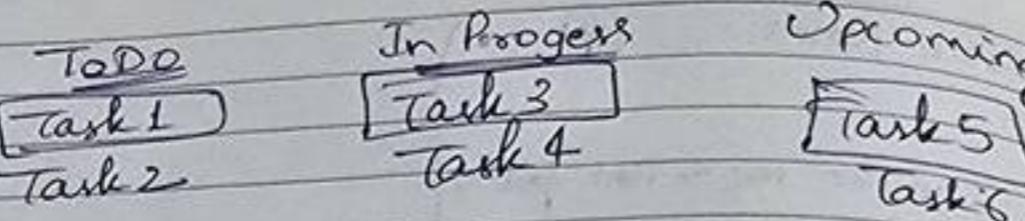
Record.

Trash / Delete

April

Dec 20<sup>th</sup> 2025.

16 Wednesday



If selects the first task from all these states and reads them aloud.

Also, workflow of voice Note:

17 Thursday

## Voice Notes S D R

→ audio

AI model

gets tasks

[Add as card]

↓  
} tasks get added to kanban }

Apr 2025	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	-

2025

Dec 30<sup>th</sup> 2025

Apri

Friday 18

## InterCommunication Components : (ICC)

→ Components that talk to each other for user interface.

## Task Tracker

## Custom Kanban

Calculates % work finished

% work finished

$$PWF = \frac{\text{tasks in completed} + (\text{Tasks in progress}/3)}{\text{Total tasks}}$$

(ii) Upcoming Panel

## Calenda

(Constantly polls  
by refreshing)

```

graph TD
    SD[Speak Daily Summary] --> CK[CustomKanban]
    SD --> UP[Upcoming Panel]
    CK --> SD
    UP --> SD

```

The diagram illustrates the interaction between three components: Speak Daily Summary, CustomKanban, and Upcoming Panel. The Speak Daily Summary component is shown at the top left, with arrows pointing from it to both CustomKanban and Upcoming Panel. Additionally, there are arrows pointing from CustomKanban and Upcoming Panel back towards Speak Daily Summary, indicating a bidirectional relationship.

gets events/ tasks from them.

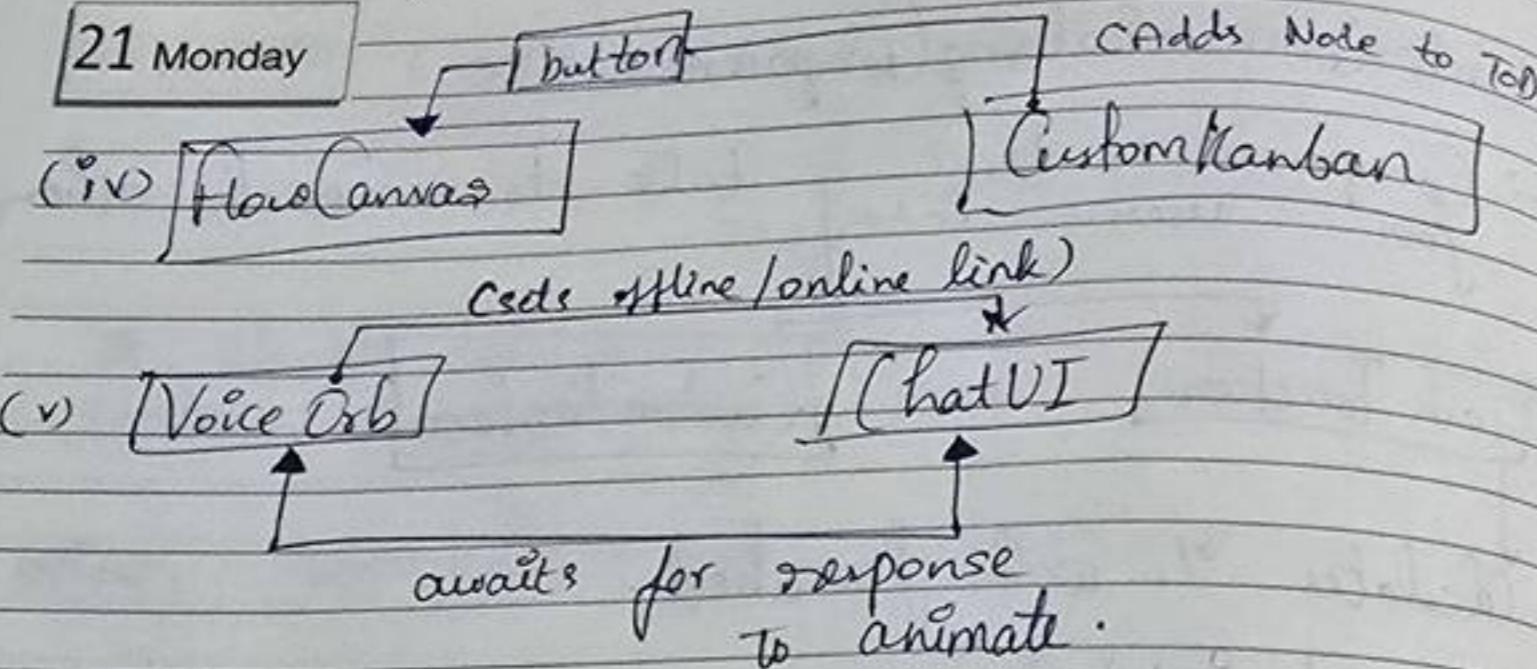
Thu	Fri	Sat	Sun	Mon	Tue	Wednesday	Thu	Fri	Sat	Sun	Mon	Tue	Wednesday	Thu	Fri	Sat	Sun	Mon	Tue	Wednesday	Thu	Fri	Sat	M						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

April

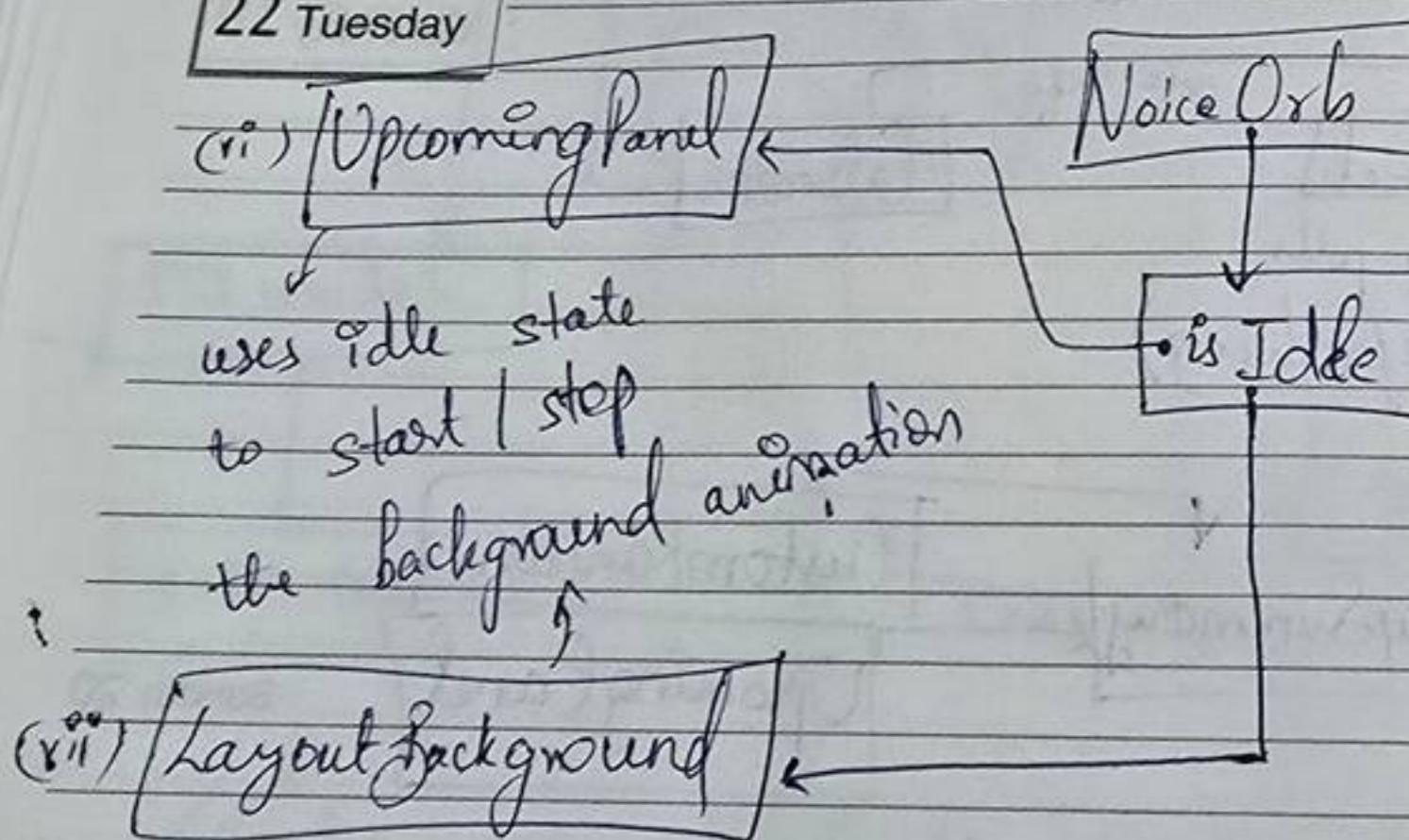
Dec 30<sup>th</sup> 2025

2025

21 Monday



22 Tuesday



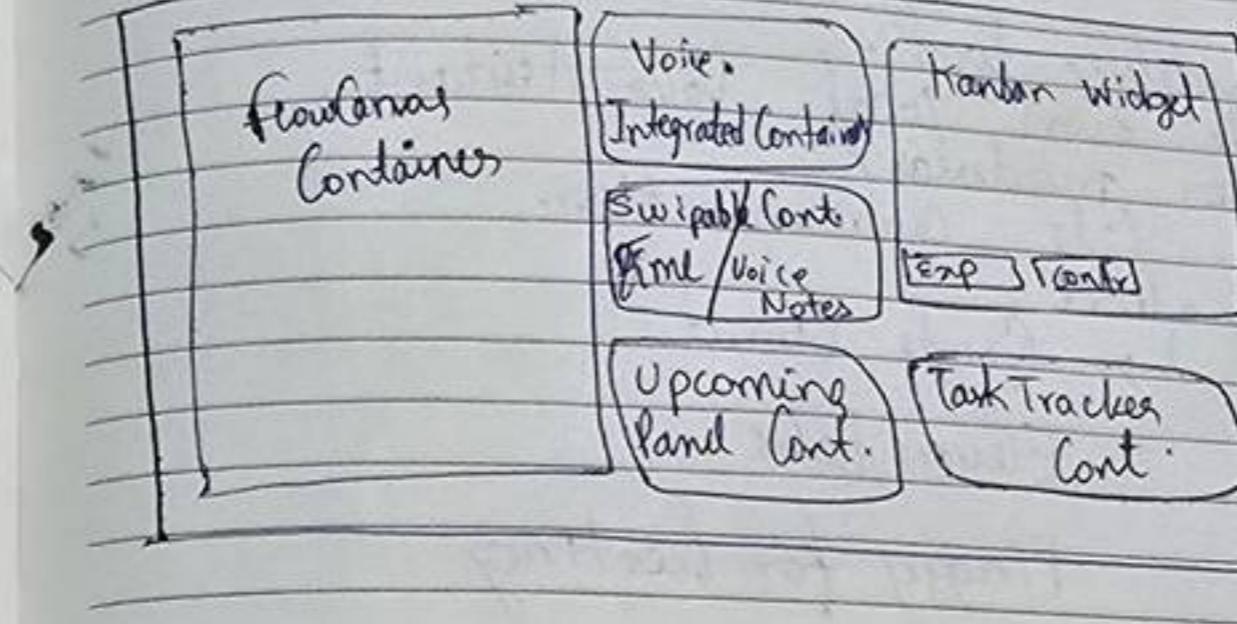
April

Dec 30<sup>th</sup> 2025

2025

High level View of Components

Wednesday 23



Thursday 24

src

assets

Calendar-components

extensions

flow chart-components

Kanban-components

layouts | Image proxy

testing-stuff

Voice-assistant

configuration files.

George W.

Dec 1 Pommelae

C7

25 Friday

- i) Completely local. Voice Assistant.
  - ii) Made own local communication.
  - iii) Eliminated: Clever Labs
  - iv) Pingy for hosting.

26 Saturday

- (v) Customs Voice Notes under
- (vi) Reliable fast & powerful, communication between components.

(viii) Voice Summary  
→ We don't need lists.

but can listen to what  
some suggests.

2025 Dec 30<sup>th</sup> 2025 April  
Card 3 Card 2

Monday 28  
Carroll

But when I tap or swipe to Card 2 and swipe again it goes to Card 1.

This was a serious bug. And when I asked gennini, Claude, chatopt they all where looking at the wrong place suggesting they were right.

But I thought and of predestination  
that since it is a copy and others  
had first got out card apposite,

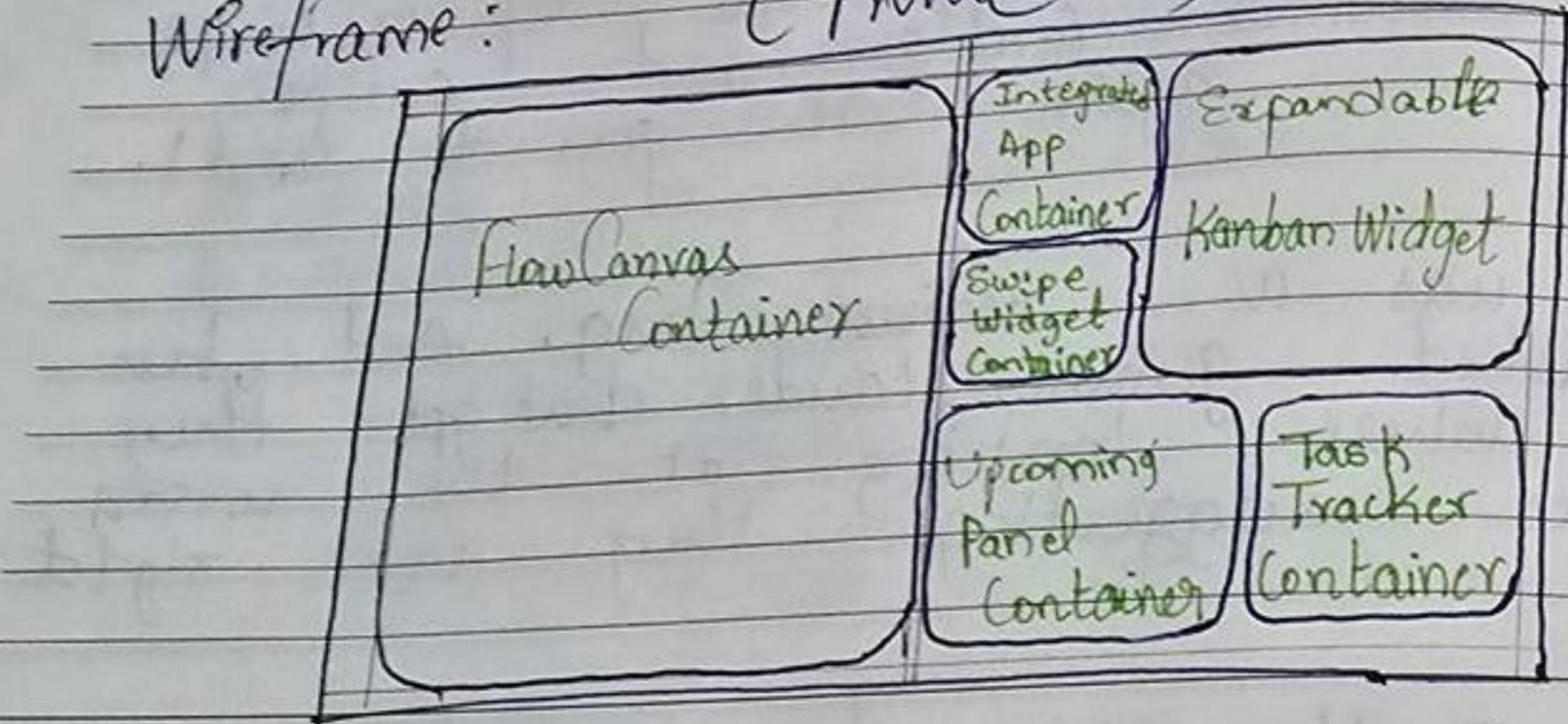
I was indeed right.  
I was not wrong.

I have been a Catholic for long. Just as I got through it, I got my first grace.

Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

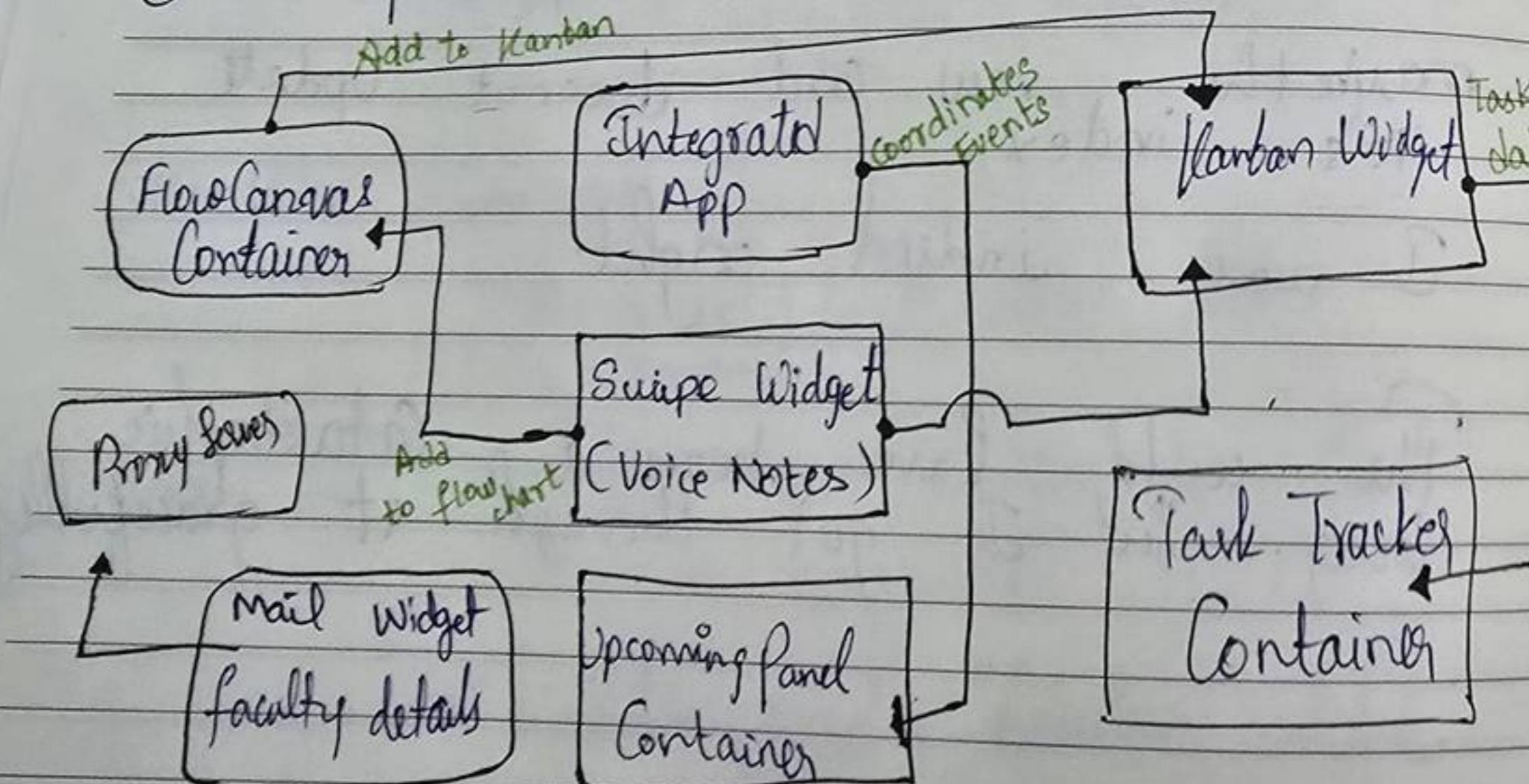
30 Wednesday

## Wireframe: (FrontEnd)

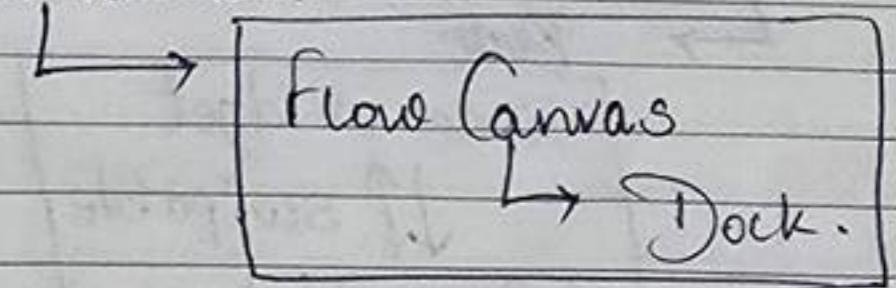


01 Thursday

## Inter-Component Connections:



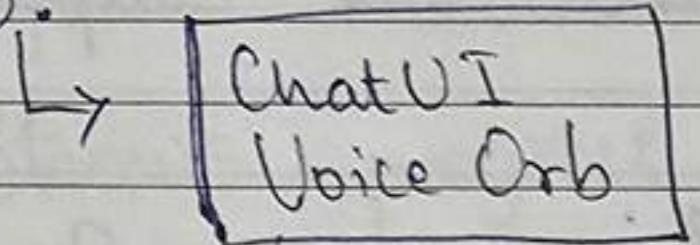
FlowCanvasContainer:



## Features:

- Add Nodes
- Connect Nodes
- Add labels (semantics)
- Delete
- Send to Kanban as Task
- Glass/Solid bg for focus.

## Integrated App:



## features:

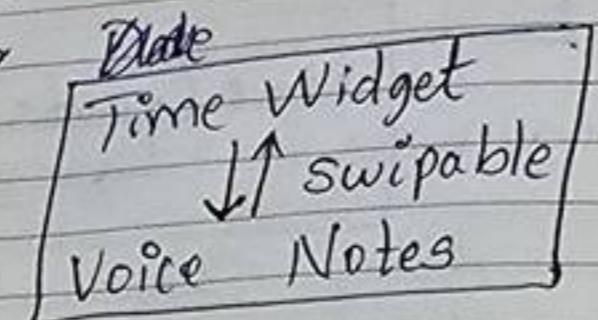
- Add events to Google Calendar
- Reacts to audio by modes
- Offline & Online modes
- local and hosted AI-agent

May

05 Monday

## Swipe Widget

2025



features:

- Shows Time (Playable Widget)
  - Voice Notes transcribed
  - Text (transcribed) is sent to AT to extract a task.

This task can be added to flowchart or Kanban (you choose)

06 Tuesday

- Text Notes → Stacked like actual cards and are suitable.

Upcoming Panel Container:

## Upcoming Panel

## Features :-

- Shows Date
  - Shows upcoming & events.
  - Shows isolated task when hovered on a particular task.

May 2025	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	

2025

## Kanban Widget

Dec 31 ✓

2025

May

Wednesday Oct

## features

↳ Custom Kanban

- Expand → to View All Columns
  - Contract → to view 2 important Columns
  - Today's Tasks
    - ↳ Summarizes all important tasks from Upcoming Panel and Custom Kanban.

## Task Tracker Container

## L> Task Tracker

## Features

- Updates % Tasks Completed from Kanban. (Live).

- Shows progress. (Monthly & C)

Latency:

Voice-Assistant : 900 ms to 180

Inter Component :  $\approx 0$  ms

May

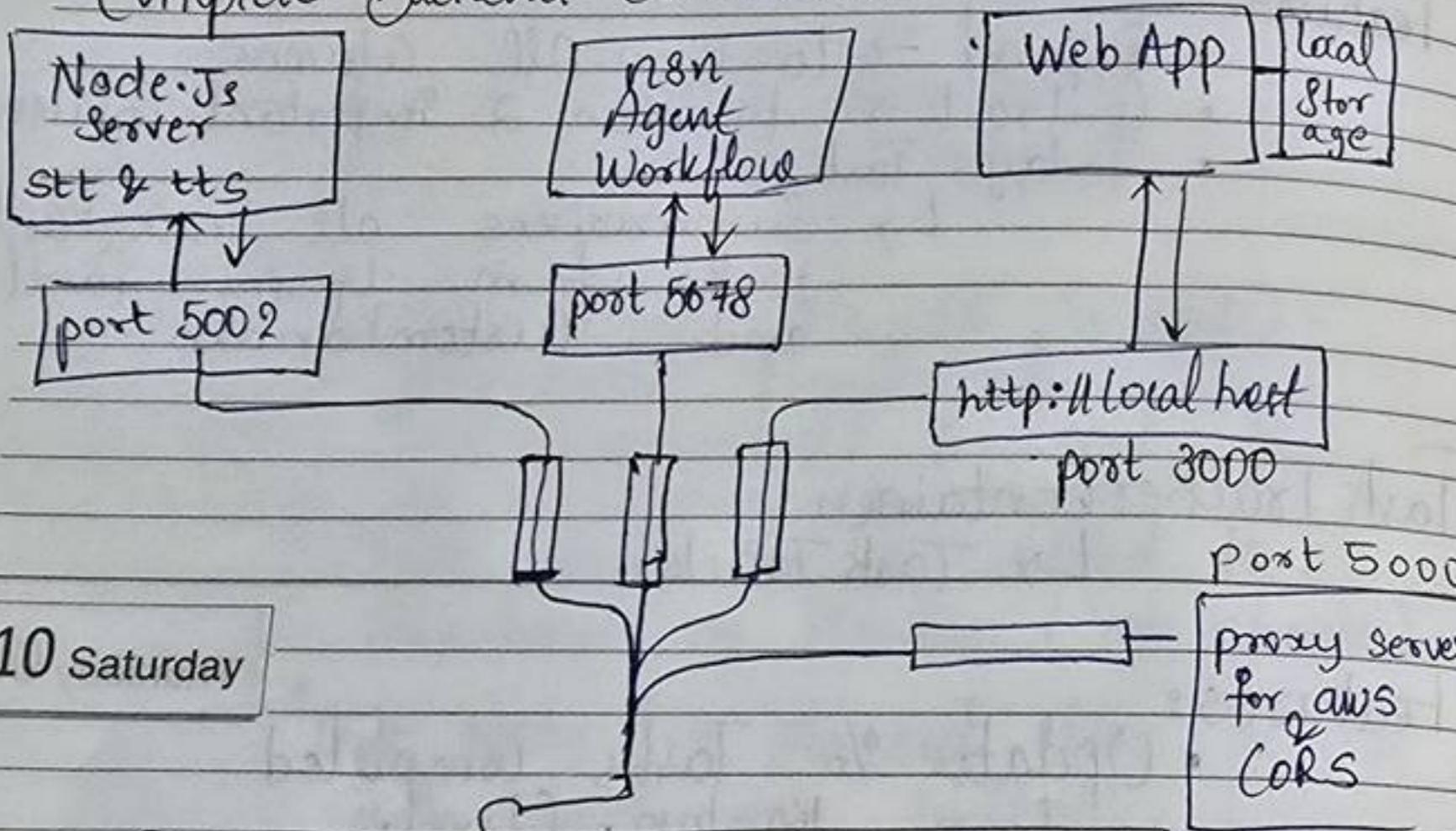
Dec 31<sup>st</sup>

2025

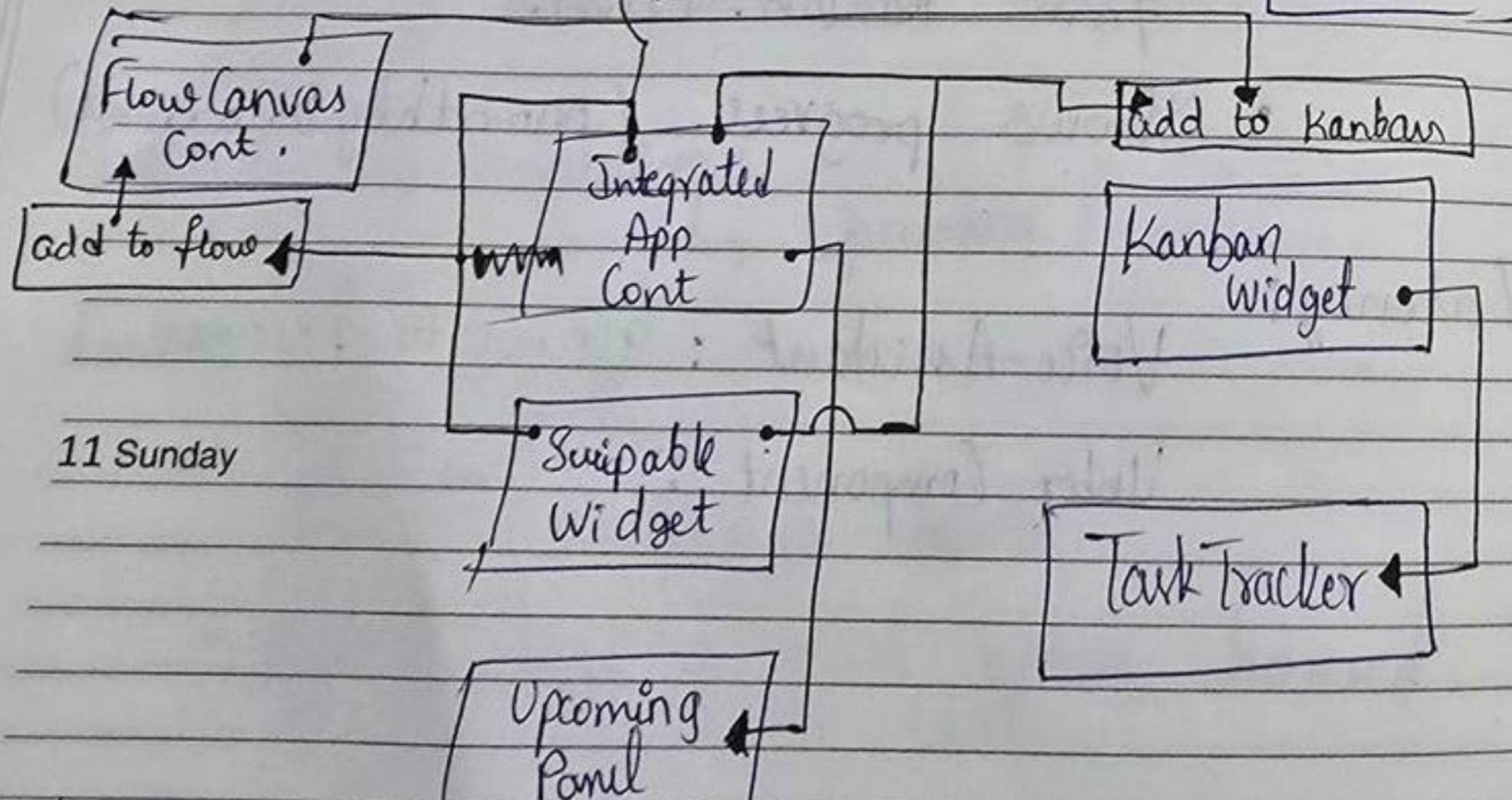
2025

09 Friday

## Complete Backend Connections:



10 Saturday



11 Sunday

2025

Dec 31<sup>st</sup>

2025

May

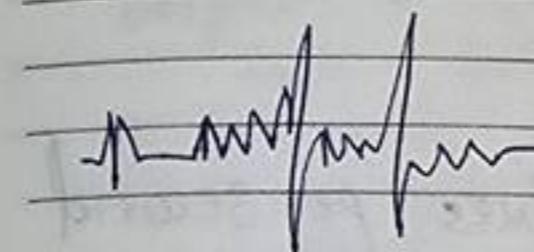
Monday 12

Extra info on how the voice  
reacting orb works.



parameters:

scale :  
bandwidth :  
glowstrength :  
height : } have different  
amplitudes given.

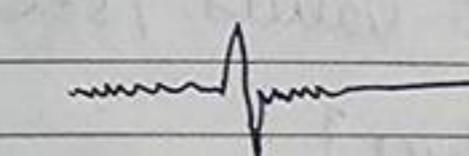


Raw Audio (Lots of Noise)

Tuesday 13



Normalize it.



→ Spike only when user speaks.

noise amplitude = 0 .

when speaking amplitude &gt; 0 .

Scale = 2.5(a) → amplitude .

height = 1.5(a)

glow = 0.1(a)

etc .

May

Dec 31<sup>st</sup> 2025

2025

14 Wednesday

(Normalization)

Input

[Random]

usually 128 kHz.



Convert to 16kHz wav.

i.e. each value of signal is a  
32-bit float.

16000 Hz → ~~16000~~ values per second

15 Thursday

we take a buffer, usually  
100 values.

i.e.  $\frac{16000}{100} = 160 \text{ values/sec.}$

$V = [0.32, 0.23, \dots, 60 \text{ values}]$

↓ calculate the rms to get a normalized  
value.

more values in buffer → more fast  
and accurate processing.

↓ should not be too big / should not be  
too small.

Dec 31<sup>st</sup> 2025

May

Friday 16

2025

$$a = \text{rms} = \sqrt{\frac{v_0^2 + v_1^2 + \dots + v_{160}^2}{160}}$$

$$a_1 = \sqrt{v_1[0]^2 + v_1[1]^2 + \dots + v_{160}[160]^2}$$

Now

so values at that second are.

scale

$$S_1 = 2.2 * a,$$

height

$$h_1 = 1.5 * a,$$

and so-on.

Bday  
Saturday 17

That is plugged in as parameters  
to the animated orb.

Honestly this processing, that too  
live is honestly mind boggling.

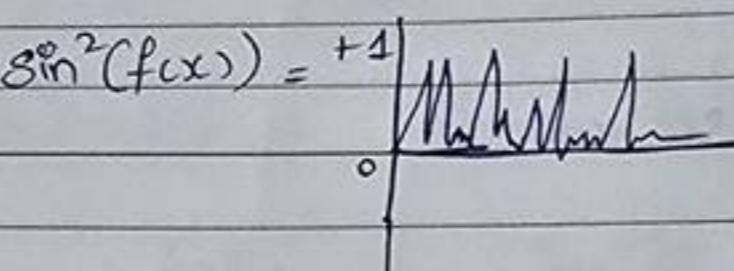
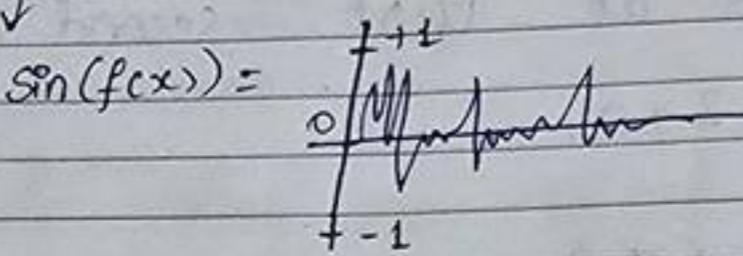
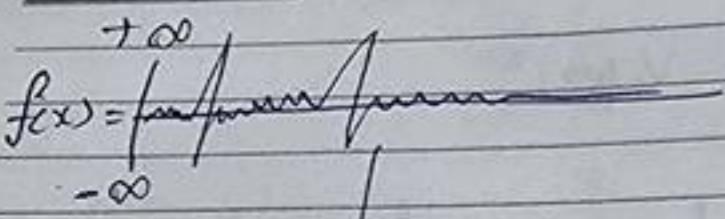
Sunday 18

May

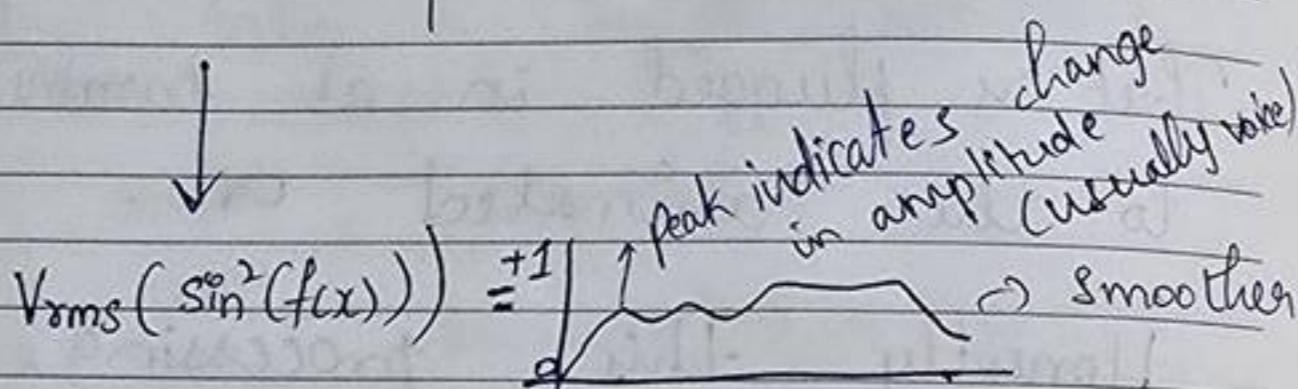
Dec 31<sup>st</sup> 2025

2025

19 Monday



20 Tuesday



Today

May	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	June
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	-	2025		

2025 1<sup>st</sup> Jan 2026

May

Server built using Node.js

Wednesday 21

↳ has 2 functions.

runs on a port.

→ speech to text (stt)

text to speech (tts)

stt → whispercpp

↳ "base" or "small" model

Thursday 22

tts → piperTTS

↳ hfc female voice model

stt

↳ needs a 16k audio ".wav" file

↓  
processes and gives transcription.

tts

↳ takes in text and generates audio ~~say~~  
output in ".wav".

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	June
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	-	2025

May

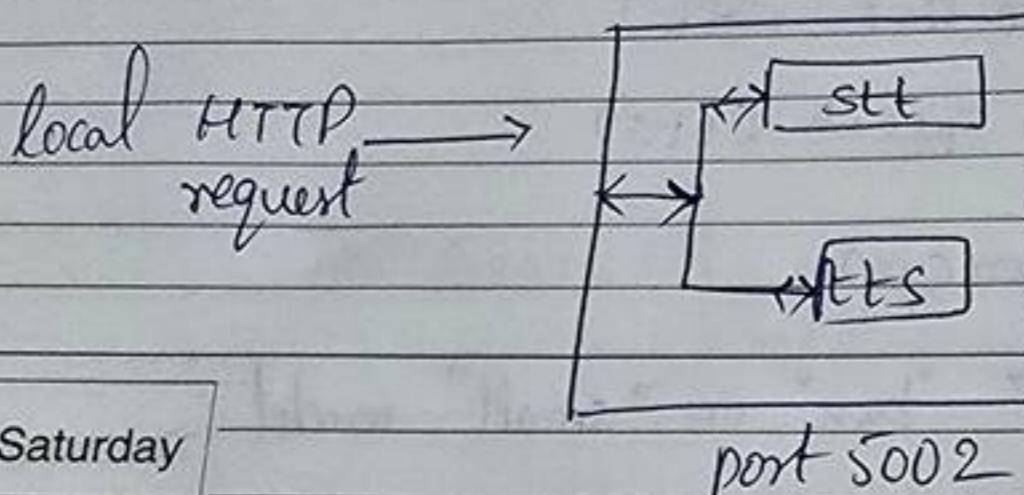
23 Friday

Jan 1<sup>st</sup> 2026

2025

Current Server.

- ↳ Accepts local http requests.
- has no load balancer because 2 functions are never called simultaneously.



24 Saturday

port 5002

~~STT → max 50ms latency~~

{ TTS → 150ms to 200ms max latency

{ STT → 200ms to 300ms max latency

25 Sunday

→ pretty fast.      ↓  
                        500ms  
                        ↓  
                        Worst case

+  
AI agent ( $\approx$  400ms)

May	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	June
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				

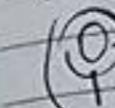
Jan 1<sup>st</sup> 2026.

May

Monday 26

Current Processing.

mic



.wav

STT

ffmpeg convert to 16kHz signal

200 - 300ms

WhisperCPP

transcribed text

~ 400ms

AJ-agent

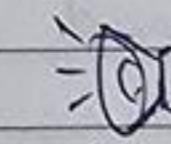
Tuesday 27

text-output

TTS

Piper TTS

outputs .wav



plays audio

≈ All under 1sec max or 2sec worst case

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	June
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	-	2025

May

28 Wednesday

Jan 1st . 2026

2025

## Issue Regarding Voice Orb.

I turn my mic on  
↳ talk and you  
for processing

↓  
Entire time my cursor and  
everything lag.

29 Thursday

~~Very important~~  
Because "Bism" file re-renders  
everything when a new parameter  
is given by destroying previously  
Web-GL canvas.

That's a mistake!!!

↳ It should update instead of  
rewriting

It's like using new paper each  
time to write a single letter.

fixed that to update instead of  
re-write & it works.

May	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue			
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

5

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	2025

May/Jun

Friday 30

Jan 1st

2026 .

Now it only re-runs when  
there is a transparency change  
which is very rare.

Saturday 31

Sunday 01

June

Jan 3<sup>rd</sup> 2026

02 Monday

Mail - Sender to faculty.

→ faculty-list.csv.

↳ Add faculty / delete.

→ Dropdown menu

↳ searchable.

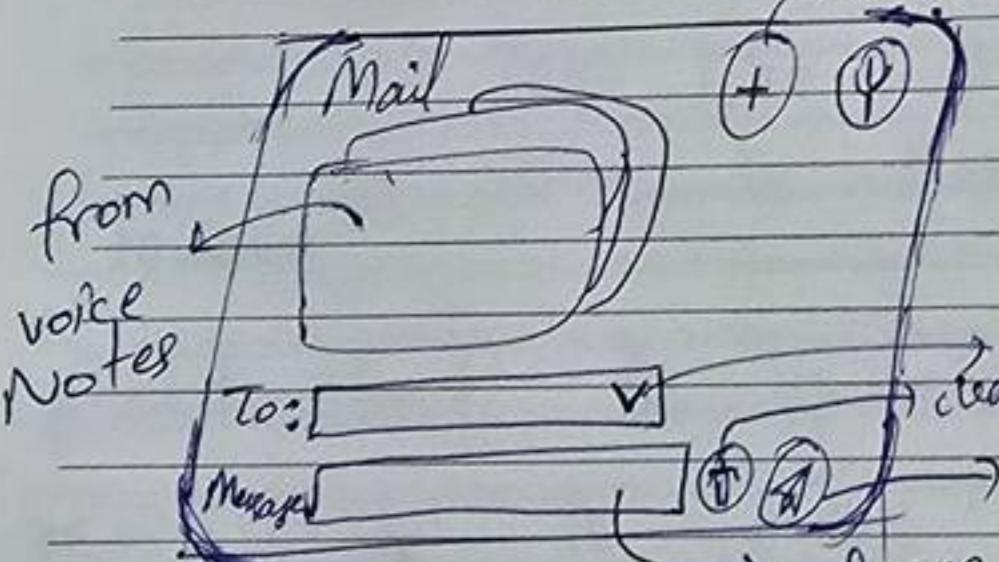
(Faculties are searchable)

03 Tuesday

Voice Notes ← Ints linked → Mail Widget.

Upcoming Panel ← swipe → Mail Widget.

→ to add faculty.



2025

June

Jan 3<sup>rd</sup> 2026

Wednesday 04

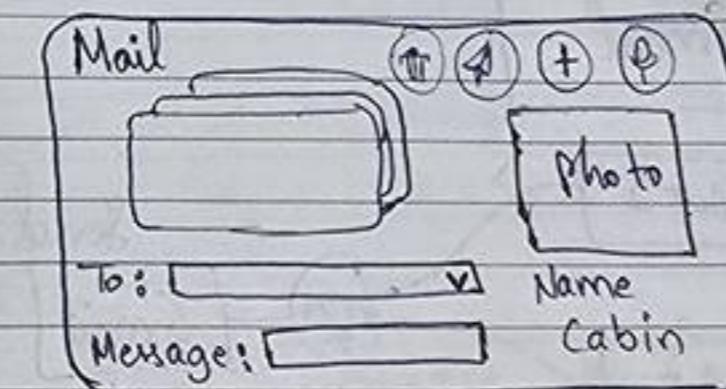
string:

Send an ~~mail~~<sup>JSON</sup> to : {{&son.to}}

{ "to": { "to": "mail.id" } do { message } }

↓ Input String to chat Input.

~~Mail~~ ~~Notes~~ ~~Upcoming~~.

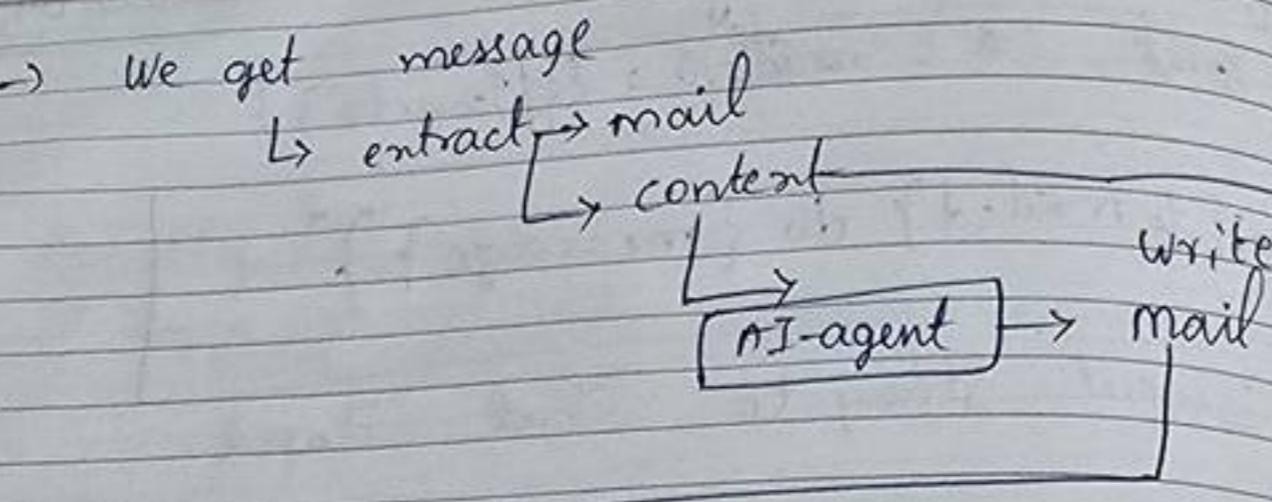


Thursday 05

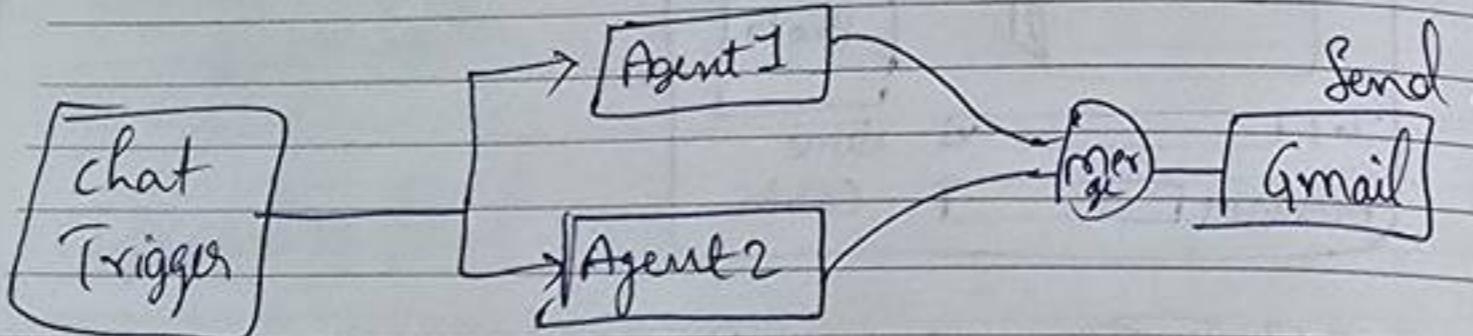
June	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu				
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

June  
06 Friday Jan 3rd 2026 Building the Agent 2025



07 Saturday



08 Sunday

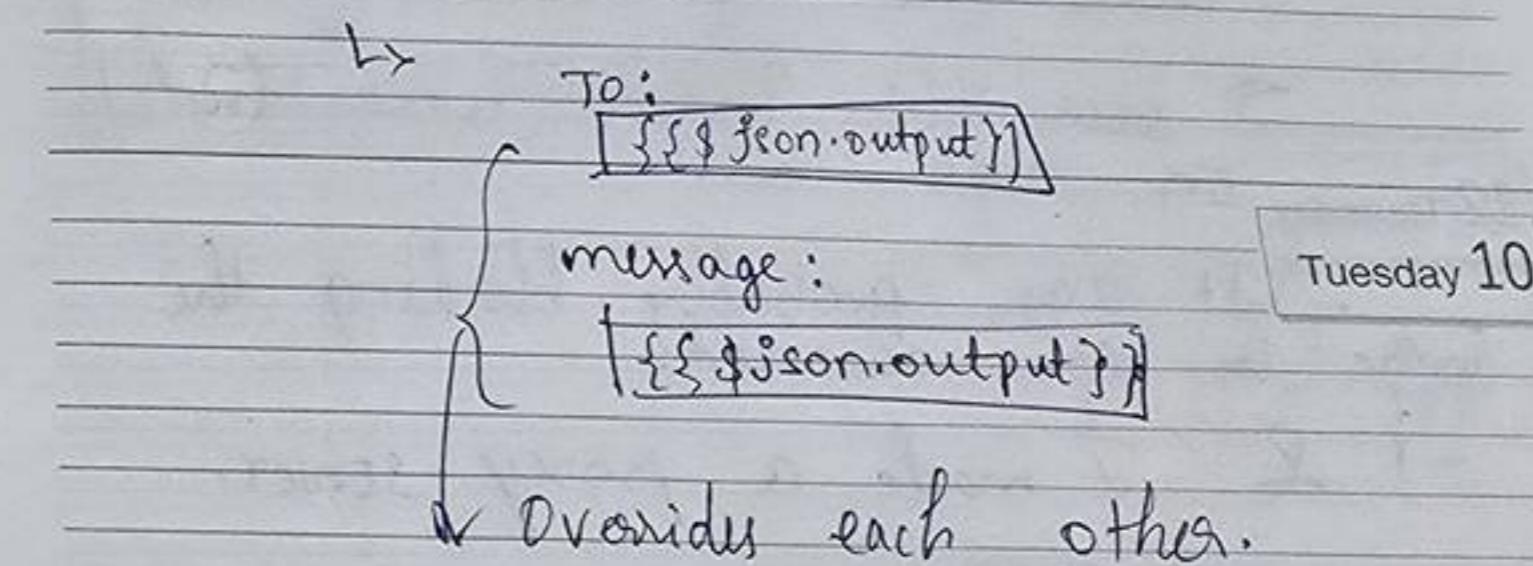
We use this setup because both agent output from with some field names:

2025 Jan 3rd 2026 June

Agent 1 → {  
"output": data  
}

Agent 2 → {  
"output": data2  
}

But then in Gmail



when we merge → output = [dat1, dat2]

Then gmail node executes twice.

So change it to execute once.

June	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue						
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	July	
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	2025

June Jan 3<sup>rd</sup> 2026

2025

11 Wednesday

→ I used the link of images directly and it did not show.

→ Chat-gpt suggested it was CORS cross-Origin Resource sharing error.

→ I asked many ai-models to solve the issue but they could not.

I saw the images were hosted on aws s3.

12 Thursday

→ It was probably blocking the image to be accessed.

→ So I made a proxy-server.

port 5000.

→ The image was opening in my chrome tab, but not in my react app.

June	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
2025	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

Jan 3<sup>rd</sup> 2026.

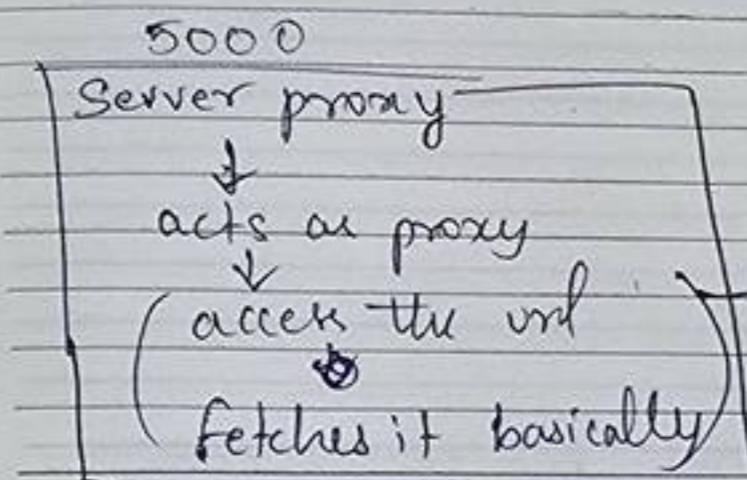
2025

June

Friday 13

So I got this idea of using a proxy.

This is how it works.



at status 200  
(success)

mirrors it to  
my react app.

Saturday 14

Sunday 15

Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	July	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26