

A close-up, high-resolution photograph of a person's eye, looking directly at the camera. The eye is dark and has a slight reflection. The skin around the eye is textured and has a warm, brownish tone. The lighting is soft, highlighting the contours of the eye and the surrounding skin. The overall mood is intimate and focused.

# SUMMARY EYES

AN ONLINE MEETING APPLICATION BY KAFADABITIRME

## KAFADA BİTİRME MEMBERS

21902103 Kürşad Güzelkaya

21902270 Burcu Kaplan

21902512 Süleyman Gökhan Tekin

21903435 Hazal Buluş

22002850 Deniz Gökçen

**SUPERVISOR** Uğur Güdükbay

**INN. EXPERT** Cem Çimenbiçer

## COURSE INSTRUCTORS

Atakan Erdem

Mert Bıçakçı

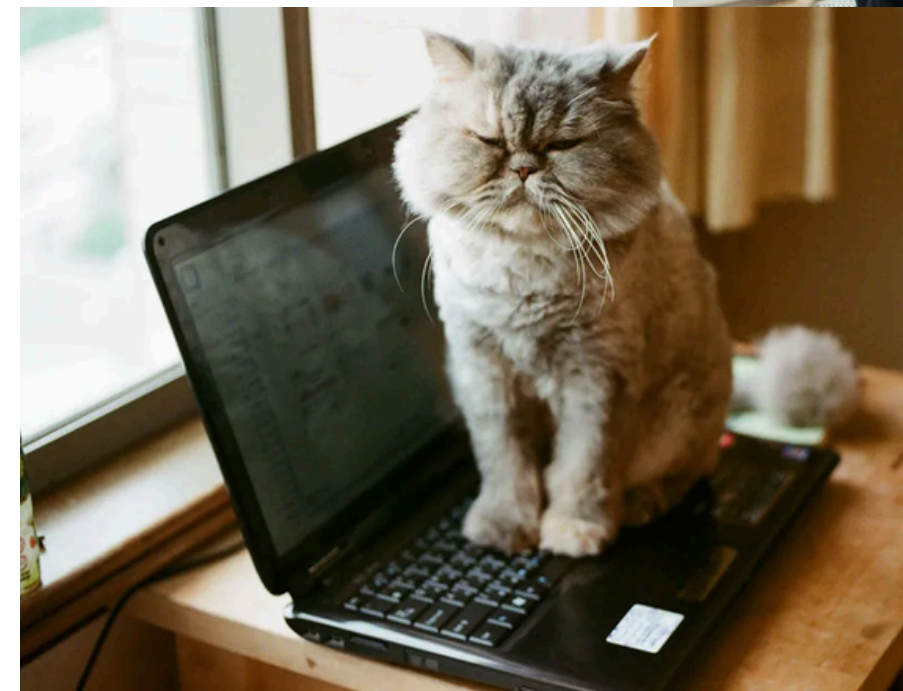
# **AN OVERVIEW** OF OUR PROJECT

SummarEyes is an online meeting platform that uses AI technologies to analyze the engagement level of the participant, offering personalized meeting summaries to participants to make sure no information stays missed!

It also provides meeting feedbacks to the hosts to let them inform what parts of the meeting couldn't reach the participants.

# MAIN PROBLEM

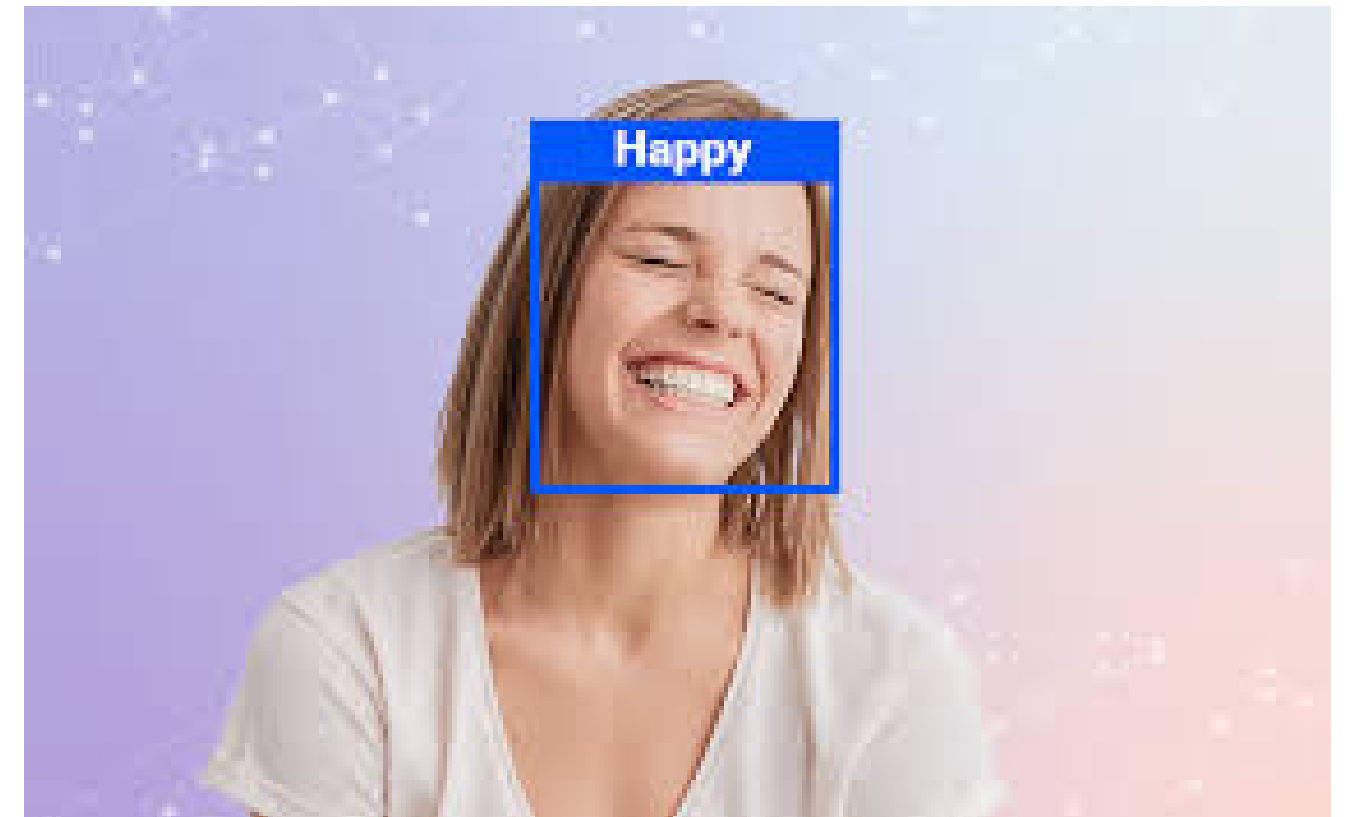
- After Covid the remote workers and online lectures became part of our life.
- Surrounded by lots of distractions.
- Results in low engagement/ concentration.



# SOLUTION

## OF OUR PROJECT

- Concentration analysis with emotion detection and gaze/eye tracking
- Personalized summary of low-concentrated parts
- Feedback for presenter



# NOVELTY ASPECT OF OUR PROJECT



- Zoom creates summaries of the meetings.
- Microsoft Teams offers meeting transcripts.
- Cisco Webex has attention analysis.



The screenshot displays a meeting transcript for a "Project Meeting". The transcript includes messages from Emily Johnson, Tom Reynolds, and Sarah Patel. An "AI Summary" overlay is shown on the right side of the screen, providing a concise summary of the meeting's content. The summary includes a general overview, a list of chapters (Development Team Update, Design Team Update, Marketing Team Update), and a list of action items (The development team should continue work on resolving any outstanding issues identified in testing).

**Project Meeting** AI Summary

**Emily Johnson** 00:02  
Hi Team. As we're nearing the project's halfway point, let's discuss our progress and address any concerns.

**Tom Reynolds** 00:11  
Hi, PM. Sure. We've made significant progress. We've successfully implemented the new features we discussed, and we've conducted thorough testing and resolved most of the issues.

**Sarah Patel** 00:24  
That's great to hear, Tom. On the design side, we've made good progress on the mockups, and we've completed the design review sessions.

**Tom Reynolds** 00:40  
From the marketing perspective, we've begun planning for the upcoming launch. We're coordinating with the design team to ensure the messaging highlights the key benefits of the new features.

**AI Summary**  
The project partners discussed progress and address any concerns on a project that is nearing the halfway point.

**Chapters**

- ▶ Development Team Update
- ▶ Design Team Update
- ▶ Marketing Team Update

**Action Items**

- The development team should continue work on resolving any outstanding issues identified in testing.

# TARGET GROUP OF OUR PROJECT

- Company employees
- Students
- Individual consumers



# PRIVACY ASPECT OF OUR PROJECT

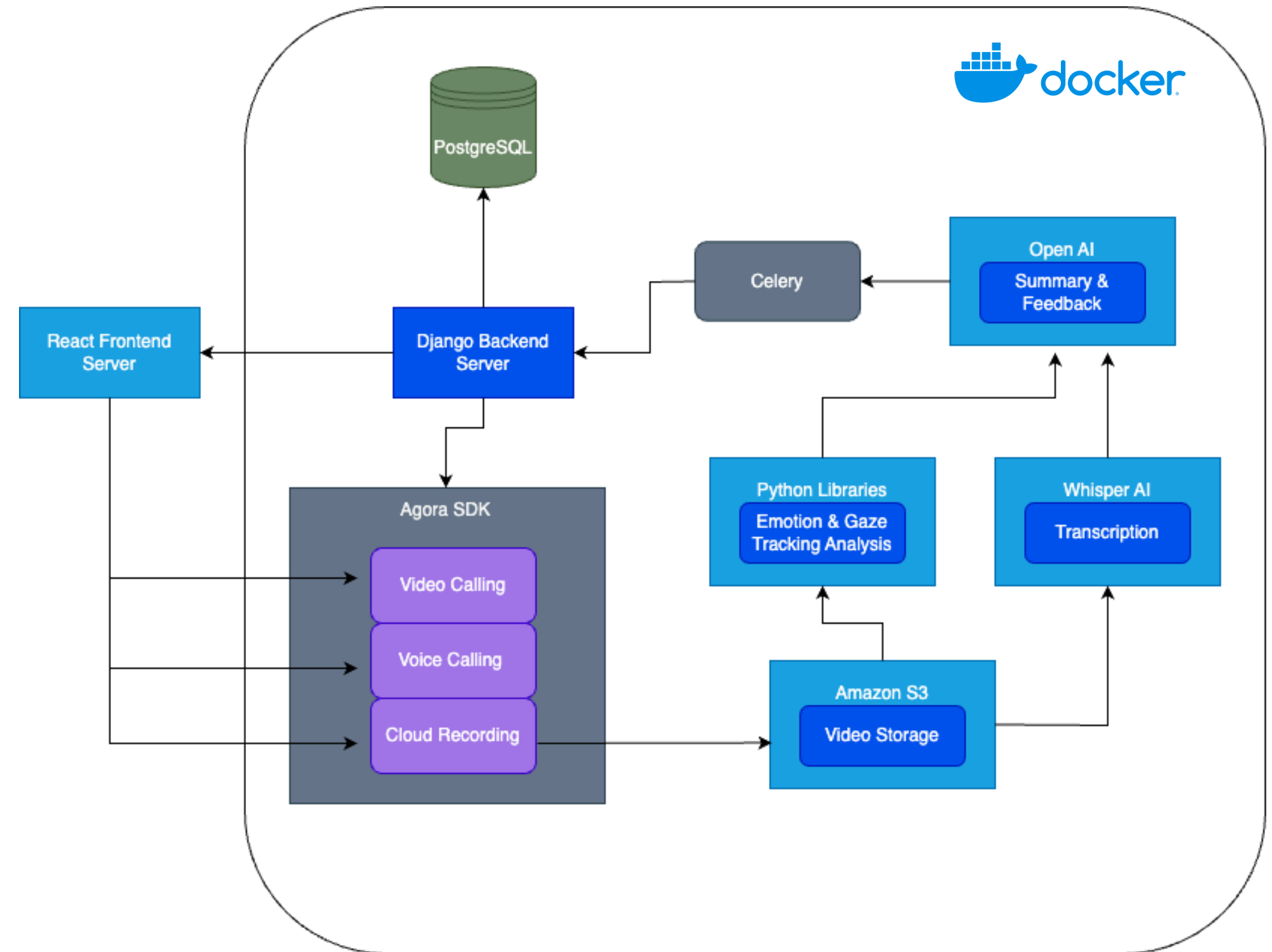
- Removal of the saved videos from the cloud.
- User consent!

The screenshot displays three overlapping windows from a meeting application:

- Permissions Window:** Titled "...lhost:3000 şunu yapmak istiyor:" (This host wants to do this). It contains two options: "Kameralarınızı kullanma" (Use your camera) and "Mikrofonlarınızı kullanma" (Use your microphone). At the bottom are two buttons: "İzin ver" (Allow) and "Engelle" (Deny).
- Notice Window:** Titled "Notice". The text reads: "Your video will be recorded during this meeting. The recording will not be used for any purpose other than generating a customized summary. It will be secured and deleted after the summary is generated. Please ensure your camera is on to get a clear customized summary." Below the text is the question "Do you want to continue?" and two buttons: "Continue" (green) and "Cancel" (red).
- Camera Off Window:** Titled "Camera Off". The text reads: "You should turn your camera on to get a customized summary according to your attention level." At the bottom right is an "OK" button.



# SYSTEM ARCHITECTURE OF OUR PROJECT








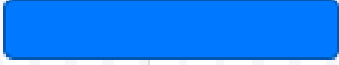


# HOW DO WE CALCULATE CONCENTRATION SCORES?

**Table 1.** Dominant Emotions and their corresponding Weights

Dominant Emotion	Emotion Weight	
Neutral	0.9	
Happy	0.6	
Surprised	0.6	if $c > 0.5$ then
Sad	0.3	$a = 100$ (i.e., Focused)
Disgust	0.2	else $a = 0$ (i.e., Distracted),
Anger	0.25	
Scared	0.3	

Table 1 represents Dominant Emotions and their corresponding Weights. The resulting Concentration Index (CI) is determined by multiplying the Dominant Emotion Probability (DEP) value by the corresponding Emotion Weight (EW), according to Table 1, expressed by equation 1:  $CI = DEP \times EW$

# PROGRESS

ID	Name	2023		2024		
		Q3	Q4	Q1	Q2	Q3
30	Research					
31	Weekly Meetings					
1	Backend					
5	Frontend					
6	Concentration Analysis					
7	Summarization					
29	Tests					

# PROJECT

## DIVISION OF WORK

### **Burcu Kaplan**

Backend development & Database deployment

### **Deniz Gökçen**

Backend development & Database deployment

### **Gökhan Tekin**

Frontend development & Machine learning

### **Hazal Buluş**

Frontend development

### **Kürşad Güzelkaya**

Machine learning

**LET'S PROCEED  
WITH OUR DEMO**