



EduPulse – Quick Start Manual

Welcome to EduPulse – a smart video conferencing platform that tracks student attentiveness in real time using face landmark detection and head pose estimation. This quick start manual will walk you through the platform's core flow with images and step-by-step guidance.

Landing Page

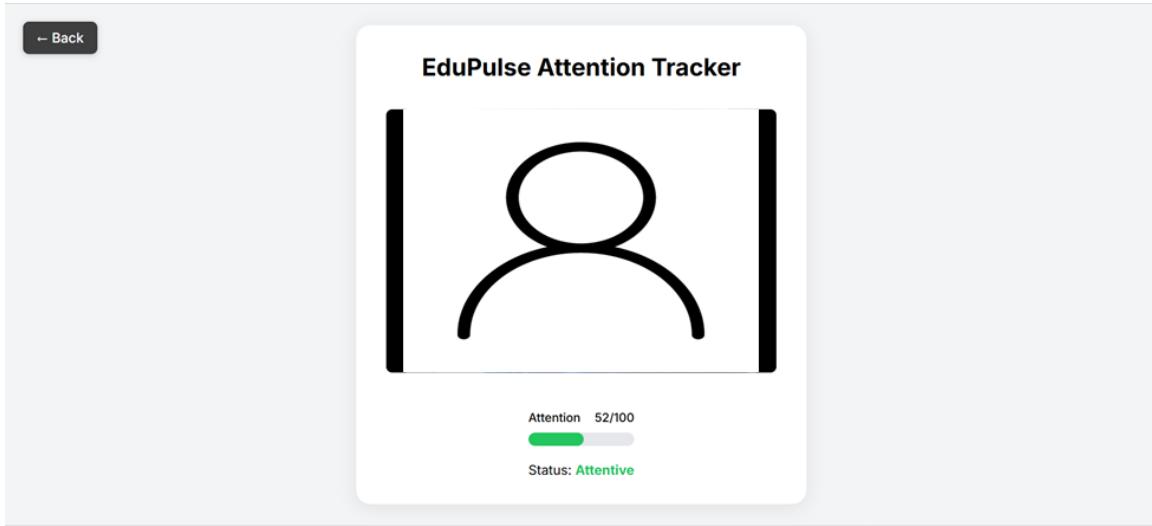
The screenshot shows the EduPulse landing page with a dark blue background. At the top, there is a navigation bar with the EduPulse logo, a search bar, and links for Features, Technology, Analytics, Team, Dashboard, Download Brochure, and Watch Demo. The main headline reads "AI-Powered Attention Monitoring for Smarter Online Learning". Below the headline, a sub-headline states: "EduPulse uses facial landmarks, eye tracking, and head pose detection to monitor student engagement — in real time." To the right, there is a callout box titled "EduPulse Dashboard" showing "Student Attention" at 87%, "Eye Tracking" as Active, and "Head Pose" as Focused. A recent alert is shown: "Recent Alert Student S101 distracted for 15s". At the bottom, there are three buttons: "Download Brochure", "Watch Demo", and "Join Conference".

The homepage showcases EduPulse's core features.

Key options:

- Dashboard
- Download Brochure
- Watch Demo
- Join Conference (takes you to the Room Manager)

Demo Page – Attention Tracker



This page demonstrates how the attention tracker works.

- Uses webcam input to evaluate attention score (0–100).
- Displays current status: Attentive / Distracted

📞 Room Manager

A screenshot of a web-based "Room Manager" application. At the top center is the title "Room Manager". Below it is a search bar labeled "Enter room name" and a blue "Create Room" button. A central box titled "Available Rooms" lists three rooms: "Demo Room", "ModernIndianHistory", and "QuantumPhysics", each with a purple "Join" button to its right.

Users can:

- Create a new room (enter room name)
- Join an existing room from the list
- Teachers must log in (Google or GitHub) to create and start rooms
- Newly created rooms become visible to students after a short delay

Conference Page

The screenshot shows the 'Conference Page' interface. At the top, it displays 'Room ID: EduPulseDemoRoom'. Below this, there's a 'Join meeting' section for 'Edu Pulse Demo Room' with a placeholder 'amarsir' and a large blue 'Join meeting' button. To the right of this is a large pink circular overlay with a white letter 'A' in the center. On the far right, there's a small preview window showing a user profile with the name 'Om Singh', an 'Attention 81/100' bar, and a 'Status: Attentive' message.

Hosted via Jitsi Meet

- Shows:
 - Room name
 - Local webcam preview
 - Device readiness check
 - Real-time attention overlay (right side)
 - Students enter their email and password to join

🎓 Student Dashboard

The screenshot shows the 'Student Dashboard'. At the top, it says 'EduPulse' and 'Welcome, Om Singh' with a 'Logout' button. Below this are three summary cards: '1 Total Meetings', '73.52% Avg. Attention', and '3 Distraction Alerts'. The main section is titled 'Meeting: EduPulseDemoRoom' and includes details like 'Teacher: Amar Sir', 'Student: Om Singh', 'Joined: Date: 22/08/2025, Time: 10:32:46 pm | Duration: NaNm (Role: student)', and a 'Report' button. It features two primary data visualizations: 'Attention Analysis' (a bar chart showing attention levels across time intervals) and 'Engagement Analysis' (a radar chart showing focus distribution across High Focus, Moderate Focus, Normal Focus, Low Focus, and Very Low Focus). The dashboard also includes a legend for 'Attention Level' (blue) and 'Engagement Distribution' (blue).

View meeting-wise statistics:

- Average attention
- Distraction alerts
- Focus trends
- Bar + radar graphs for session analytics
- Option to download report as PDF

Teacher Dashboard

Filter by Room: All Rooms



Room: EduPulseDemoRoom

Teacher: Amar Sir

Students: 9



Student	Joined At	Avg. Attention	Distractions	Action
Jay	Date: 25/06/2025, Time: 03:03:00 pm	35.85%	14	View Report
Om Singh	Date: 22/06/2025, Time: 10:32:46 pm	73.52%	3	View Report
Ranjan	Date: 25/06/2025, Time: 03:02:30 pm	57.40%	5	View Report
Utsav	Date: 22/06/2025, Time: 03:07:41 pm	97.60%	0	View Report
Vikas	Date: 25/06/2025, Time: 03:02:00 pm	73.85%	1	View Report
jayom5797	Date: 24/06/2025, Time: 08:23:05 pm	0.00%	0	View Report
rohan	Date: 24/06/2025, Time: 08:32:29 pm	85.00%	0	View Report
utsav	Date: 24/06/2025, Time: 08:22:52 pm	82.00%	0	View Report
vikastiwiari1045	Date: 24/06/2025, Time: 08:23:31 pm	0.00%	0	View Report

[+ Download All Reports](#)

Class-level analytics for each room (can be filtered)

- Displays:
 - List of students with attention scores
 - Total sessions
 - Engagement distribution
 - Buttons to view/download individual reports or all reports

 You're Ready to Go!

Use this guide to:

- Understand the flow from landing to dashboard
- Know how to host, join, and monitor classes
- Leverage the power of attention analytics in live classes

For clear understanding of dashboard can login existing accounts

Teacher Data

Name	Email	Password	Room Name
Amar Sir	amarsir@gmail.com	87654321	EduPulseDemoRoom
Dr. Verma	vermasir@gmail.com		QuantumPhysics
Professor Sharma	sharmasir@gmail.com		ModernIndianHistory

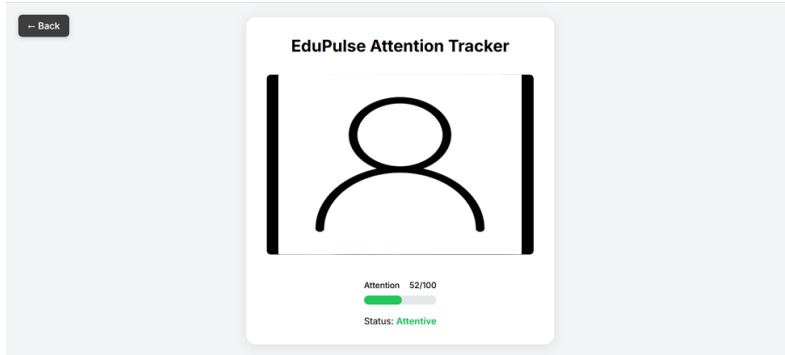
Student Data

Name	Email	Password	Room Name
Om Singh	jayom5797@gmail.com	12345678	EduPulseDemoRoom
Jay	72jaisingh@gmail.com		
Vikas	vikastiwari1045@gmail.com		
Ranjan	ranjan@gmail.com		ModernIndianHistory
Utsav	utsav@gmail.com		
Akash Singh	akash@gmail.com		
Priya	priya@gmail.com		QuantumPhysics
Rohan	rohan@gmail.com		
Anjali	anajli@gmail.com		
Vikram	vikram@gmail.com		

Upcoming Feature: Tab-Switch Detection

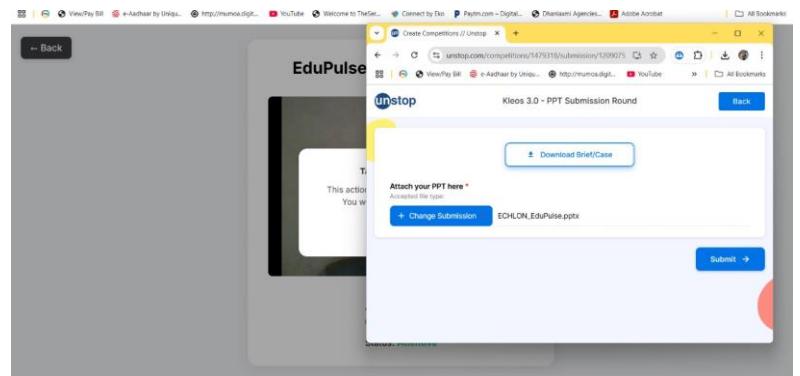
EduPulse is introducing a new attention monitoring feature designed to track when a student switches tabs during an ongoing session. When a user navigates away from the EduPulse session tab, the system detects the interruption and logs the duration of absence. Upon returning, a real-time alert is displayed to inform the user that the activity was noted.

This feature addresses a key limitation in attention tracking by ensuring that students remain focused in the active tab. It will be integrated with the attention analysis to reflect any drop in focus due to tab switching. This update is currently in development and previewed on local builds. We have tested a part of the feature in our local environment.



Demo Page With some Attention score

Student Opens a new overlapping tab



System Detects the tab switch and measures the time and reported to the database

