

STUDENT PORTAL

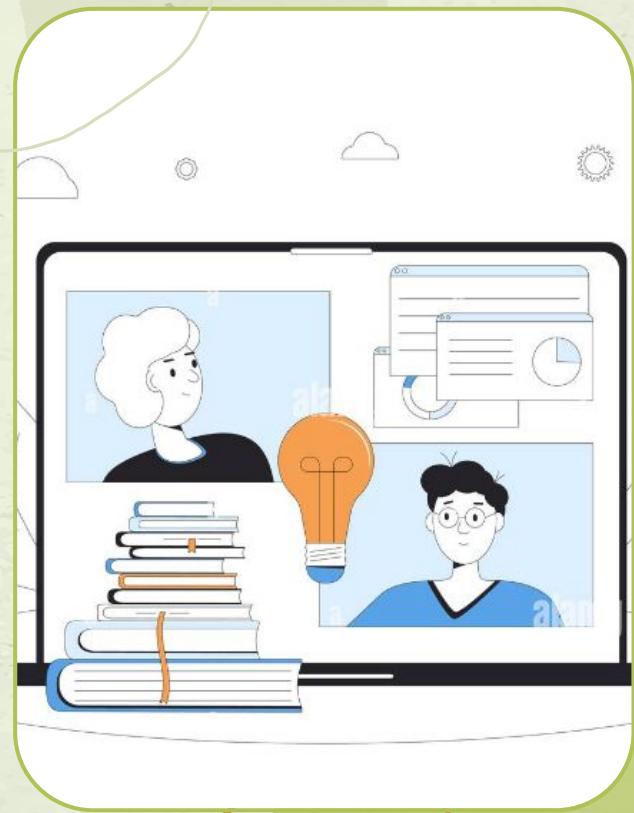
Made Simple, Useful and
Accessible

Project by SustainX

Introduction

We welcome you to the future of academic efficiency! In a world where technology constantly evolves, we believe in harnessing its power to streamline and enhance the student experience. Introducing our groundbreaking Student Portal – a sustainable solution designed to address the inefficiencies in traditional systems, reduce carbon footprint, and elevate overall productivity.

Embracing a paperless approach, we strive to make a positive impact on the environment while providing a seamless experience for both students and educators.



4:10

53%



Example of bulk images uploaded with no organization

Objective

As we move towards a future with net zero carbon, the physical printing of certificates and marking of attendance physically on paper is not at all sustainable. Deforestation, Chemical usage, Ink production and Waste Disposal all have detrimental impacts on the environment.

Along with the goal of making schools eco-friendly, we aim to solve a very common problem that students face and that is inaccessibility of pictures and certificates of the student's achievements and activities during his/her 12 years in the school which may be needed for a variety of reasons such as preparing a CV for college applications.



Project Overview



Creating an Optimized Student Portal

Each student has their own portal with personal certificates, photos, an event planner, and attendance reports conveniently accessible in one place.



Integrating AI for efficiency

AI-powered face recognition automates photo uploads and digital attendance tracking. Additionally, AI-driven certificate scanning ensures accurate and rapid certificate uploads, making our system both time-saving and environmentally conscious.



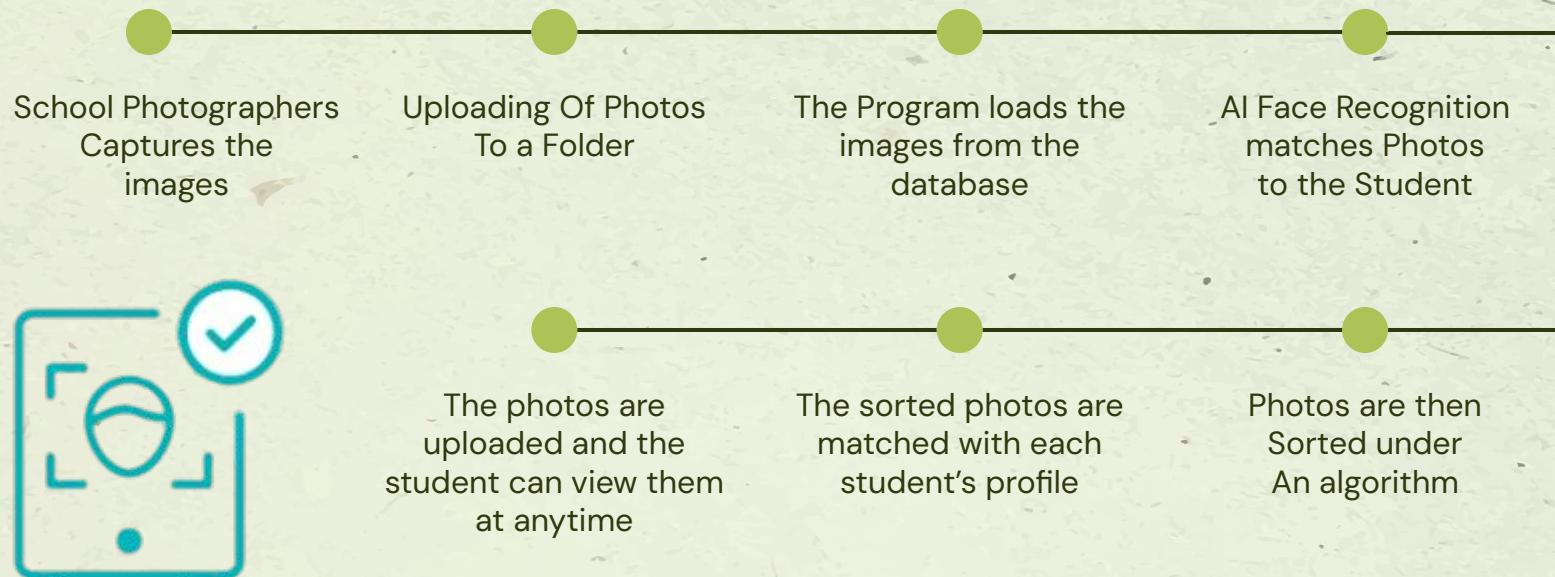
Fostering Sustainability

By digitizing processes, we're reducing paper and resource waste, minimizing carbon footprints. We also plan to promote eco-friendly practices in students through our 'Sustainable Tip of the Day' feature in the portal.

HOW IT WORKS



PHOTO UPLOAD PROCESS





group_pic1.JPG



group_pic2.jpg



group_pic3.jpg



group_pic4.JPG



group_pic5.jpg



group_pic6.jpg

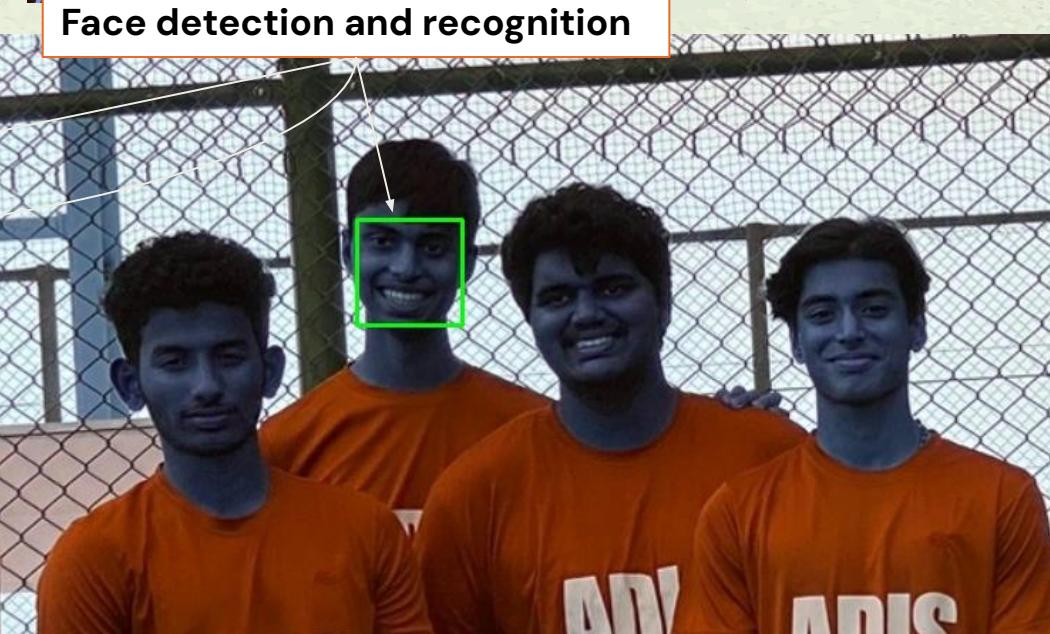


group_pic7.jpg

Folder containing photos of events uploaded by School



Face detection and recognition



CERTIFICATES UPLOAD PROCESS

Step 1: Certificates are made digitally and stored onto a folder

Step 2: Name detection module sorts certificates on the basis of Names

Step 3: Certificates are then stored to a MYSQL database

Step 4: The Certificates are uploaded to the student portal for each individual



```
mysql> select * from files;
```

Name	filename
Siddarth Pai	Certificates/certificate9.pdf
Spandan Chakrabarty	Certificates/certificate5.pdf
Siddarth Pai	Certificates/certificate6.pdf
Zayan Kasim	Certificates/certificate7.pdf
Spandan Chakrabarty	Certificates/certificate8.pdf
Siddarth Pai	Certificates/certificate1.pdf
Zayan Kasim	Certificates/certificate4.pdf
Spandan Chakrabarty	Certificates/certificate2.pdf
Zayan Kasim	Certificates/certificate3.pdf

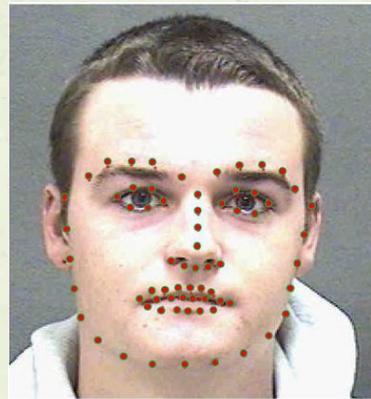
Picture of mySQL database which stores the name of the student who's won the certificate and the certificate location after running the code

Name	Date modified	Type	Size
certificate1.pdf	10/24/2023 7:55 AM	Chrome HTML Do...	1,157 KB
certificate2.pdf	10/24/2023 7:58 AM	Chrome HTML Do...	1,157 KB
certificate3.pdf	10/24/2023 7:58 AM	Chrome HTML Do...	740 KB
certificate4.pdf	10/24/2023 7:55 AM	Chrome HTML Do...	3,346 KB
certificate5.pdf	10/24/2023 7:59 AM	Chrome HTML Do...	3,346 KB
certificate6.pdf	10/24/2023 7:59 AM	Chrome HTML Do...	3,346 KB
certificate7.pdf	10/25/2023 8:17 AM	Chrome HTML Do...	176 KB
certificate8.pdf	10/25/2023 8:17 AM	Chrome HTML Do...	177 KB
certificate9.pdf	10/25/2023 8:18 AM	Chrome HTML Do...	177 KB

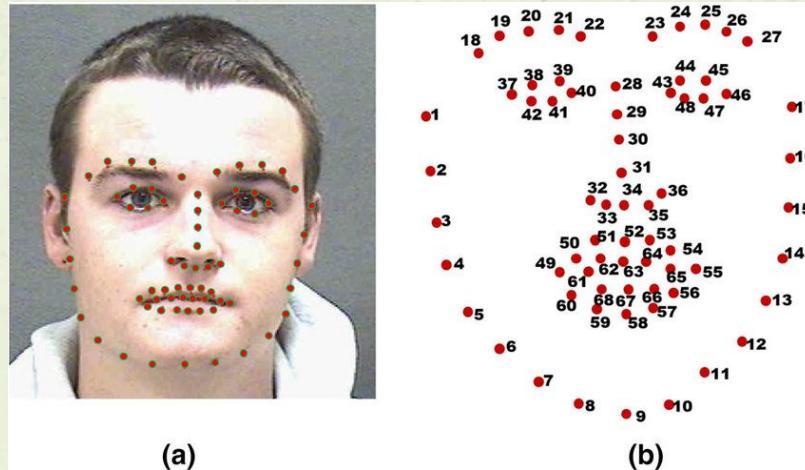
Folder containing a collection of certificates

ATTENDANCE TRACKING

- Real-time attendance tracking
- Logs precise time and date for each student
- Teachers can easily monitor student attendance



(a)



(b)



Example of the Attendance Tracking using Webcam which identifies each of the 3 users currently added to the database

EVENT PLANNER

Priorities

Listing all classes, study sessions, and any fixed commitments like extracurricular activities or part-time work.



Time Management

School Events

Integrate school events, such as exams, project deadlines, and social gatherings. This helps to visualize the upcoming weeks and plan accordingly.



Review And Adjust

Schedule regular reviews of plan, perhaps at the end of each week. Evaluate what worked well and what needs adjustment.



Sustainability Benefits

Reduced Carbon Footprint

Our portal reduces paper and ink usage, significantly lowering the school's carbon footprint.

Accessibility

Students have easy digital access to photos and certificates, reducing waste and ensuring inclusivity.

Efficiency

Streamlined processes, such as digital attendance tracking, save time and reduce waste, making education more effective and eco-friendly.



Adoption and Implementation



Ease of integration into existing school portals, potential cost savings with reduced use of ink, saving of educator's precious time and paper positive impact on school's environmental initiatives, students learn about the tangible impact of choices like reducing paper usage, adopting eco-friendly materials, and embracing energy-saving habits.

This student portal cultivates a mindset that not only values sustainability as a fundamental principle but also empowers students to become proactive, responsible, and forward-thinking advocates for a greener, more sustainable future.

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Thank
you