

SmartPass: A Digital Hallway & Bathroom Log System

Big Idea: Responsible Student Accountability Through Technology

Essential Question: How can technology help schools track hallway movement while promoting student responsibility and safety?

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Student Team Members: (First names and last initials only)

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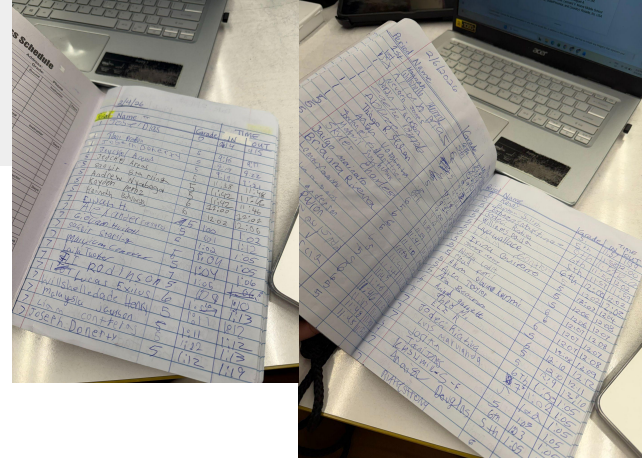
School/Organization Name: Leonard V. Moore Middle School

Location (City, State/Province, and Country): Roselle, NJ, USA

Engage:

What challenge does your project address?

Many schools rely on paper hallway logs to track when students leave the classroom. These logs are often difficult to monitor, inconsistent, and do not provide real-time information for teachers.

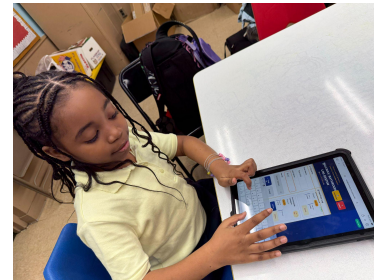


Why did your team select this topic or challenge?

Our Student Tech Team wanted to use technology to help teachers manage hallway movement more efficiently while encouraging students to be responsible and accountable.

How is it a real-world problem or concern?

Hallway monitoring is a common challenge in many schools. Without an organized system, it can be difficult to track student movement, which can affect safety, accountability, and instructional time.



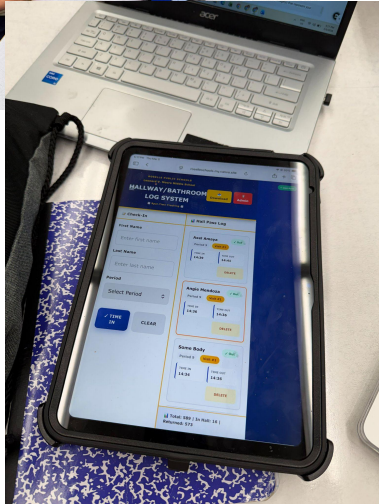
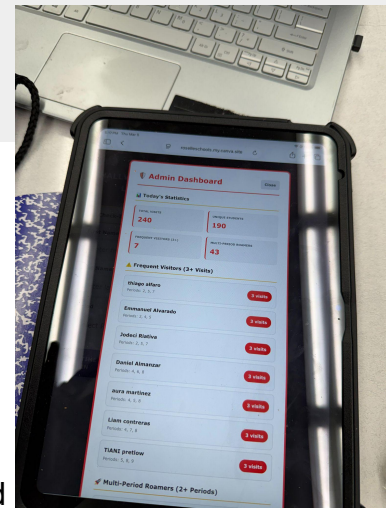
Investigation:



Our Student Tech Team began by examining how hallway passes and bathroom logs were currently managed in classrooms. We observed that many teachers relied on paper logs, which were often incomplete and difficult to track in real time. Teachers shared that it was challenging to quickly know which students were out of the classroom and how long they had been gone.

To better understand the problem, we spoke with teachers and discussed possible digital solutions that could make the process faster and more organized. We also explored how simple web-based tools and dashboards could help collect and display hallway movement data.

Through our investigation, we learned that a **live digital logging system** could improve accountability easier for teachers to monitor student movement. These discoveries helped guide us toward designing technology-based solution called **SmartPass**.



Action:

To address the challenge of tracking student movement in the hallway, our team developed **SmartPass**, a web-based hallway and bathroom logging system created using **Canva AI tools**.

SmartPass allows students to log their name, destination, and time when leaving the classroom.

The system automatically records the information and updates in real time through a shared digital dashboard that teachers can monitor. This helps teachers quickly see which students are out of the classroom and how long they have been away.

Our Student Tech Team designed the system, tested how it works in real classroom situations, and collected feedback from teachers to improve the process. The project demonstrates how students can use technology to create practical solutions for everyday school challenges.

This project showcases our **creative use of digital tools**, including Canva AI, web-based forms, and live data tracking, to build a scalable system that improves organization, accountability, and safety in our school.

