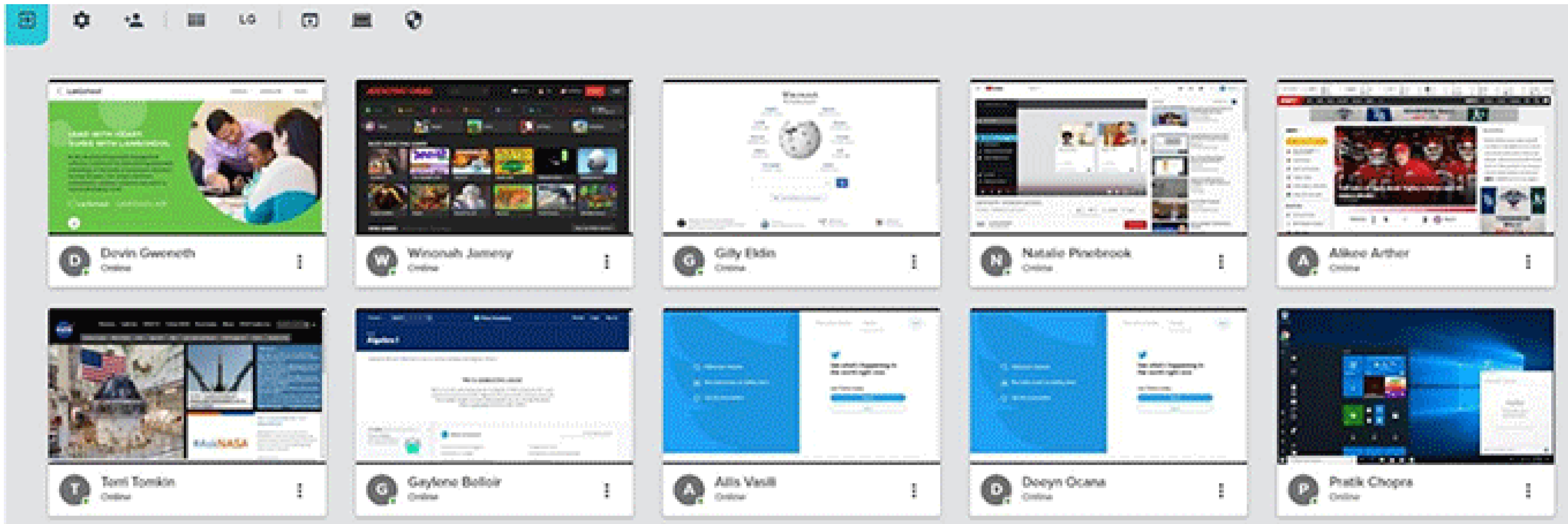


PARTNERING WITH A TOP COMPUTER BRAND

Tech Sierra collaborated with a reputed technology giant on two pivotal projects: the Licensing Admin Portal (streamlines the licensing administration process at the company) and LanSchool Air (a cloud-based classroom management software empowering educators with advanced teaching tools)



Licensing Admin Portal

Frontend Development:

- Tech Sierra led the development of the Licensing Admin Portal UI using Angular 14, later upgrading it to Angular 16.
- Implemented comprehensive functionalities including client management, license type management, and license management with bulk operations.
- Enhanced security features with multi-factor authentication (MFA) and session management functionalities.
- Developed access key generation and deletion features, enhancing usability and security.

Backend Development:

- Tech Sierra engineered the backend services utilizing Node.js, Restify, and MongoDB.
- Crafted RESTful APIs with JWT authentication for clients and licenses.
- Developed standalone SDKs for external customers, ensuring seamless integration.
- Implemented rigorous testing methodologies, including JEST unit tests with over 90% coverage and integrated end-to-end (e2e) tests.
- Utilized GitHub Actions for automated testing and deployed cron jobs for resource management.

LanSchool Air

Frontend Development:

- Designed responsive UI screens for the OPS Portal, enhancing user experience across devices.
- Implemented monitoring and reporting functionalities for administrators, facilitating data-driven decision-making.
- Worked on organization-level profiles and active hours management features.

Backend Development:

- Developed multiple backend services following a microservices architecture.
- Engineered RESTful APIs and integrated sorting and pagination functionalities.
- Implemented dedicated database and metrics services for activity audit event gathering.
- Addressed vulnerabilities in dependencies and enhanced unit testing methodologies.