#### CUSTOMER SUCCESS OVERVIEW

## **DIGITAL CLASSROOMS/EDUCATION**

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Played a key role in creating a cloud-based classroom management and remote-education solution for a major technology company



### CLIENT

• A multinational technology company

### **KEY DRIVER**

• Create immersive learning experience for educators and students, and better control for remote classroom administration

## CHALLENGES ADDRESSED

- Inconsistent learning management in classrooms and remote-education
- Ineffective monitoring of student activities during class hours
- Widespread attention difficulties and distractions for students in the virtual classrooms

CHAINYARD



# Our client envisioned a classroom and remote-education management solution that:

- Provides educators and administrators with a comprehensive platform to guide learning, increase collaboration, and maximize classroom productivity
- Provides a browser-based and desktop client applications to teachers and administrators for student monitoring, onboarding, provisioning, et al
- Integrates with third party learning platforms such as Google Classroom and Clever to import student master data and to ensure uninterrupted learning

## SOLUTION – OUR KEY CONTRIBUTION

#### DIGITAL SOLUTIONS DEVELOPMENT

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Developed classroom management solutions – Cloud-based application, Windows/Mac/Chromebook native client, and Android native client for on-premises version.

#### FLEXIBLE & SCALABLE APPLICATION FRAMEWORK



Microservices-based architecture with containerization supporting multitenancy, localized languages, and to effectively manage organizations, classes, teachers, students, and student activities

#### ENTERPRISE-GRADE APPLICATION SECURITY



Identity & access management for all types of users, multiorganization access to users, LDAP integration, SSO with Microsoft AD, IP-based access filters for students, and other security features

#### **OPERATIONS PORTAL DEVELOPMENT**



Web-based application for the client's operations team to manage organizations, licenses, agent versions, and delegated support provisioning classes, teachers, and student devices

### **TECH STACK**

App UI frameworks

Angular

**On-Device Windows Client** 

C Sharp, Windows Forms, QT

**On-Device Mac Client** 

Objective C, Swift, C++, Zsh

#### Services

NodeJS with Restify, AWS EC2, Docker, Jenkins, Microsoft AD

**Testing Framework** 

Nightwatch.js

#### **Data Stores**

MongoDB with Redis

#### Cloud, DevOps

AWS Terraform, AWS CI/CD

## **SOLUTION MODULES & FEATURES – REFERENCE VIEW**



# SOLUTION KEY CAPABILITIES

**Powerful In-Class Monitoring** 

**Enhanced Communication** 

**Simplified Administration** 

**Easier Tenant Management** 



Enable teachers to view student activities, ensure student attentiveness, eliminate questionable behavior, and control inappropriate internet usage



Allow students and teachers to interact seamlessly through audio/text chats, classroom activity alerts, different broadcast modes, and screen sharing



Allow organization admins to easily manage classroom creation, define active hours, student provisioning, teacher/student onboarding, and license management with a comprehensive UI



Enable client teams to utilize an organization specific interface to create, invite, onboard new schools, and manage customer database, platform features, licensing, orders, and students

# **END-USER ORGANIZATION OUTCOMES**

## **MAXIMIZED PRODUCTIVITY**

In classrooms through enhanced student monitoring, web-limiting technology, and student device control



## ENHANCED COMMUNICATION

Between teachers and students through one-to-one chats, push notifications and visual signals (e.g., hands raising)



## STREAMLINED MANAGEMENT

Of organization-level administrative activities through admin and client modules for onboarding, licensing, provisioning, and related activities



## ENGAGEMENT HIGHLIGHT & CLIENT ORGANIZATION BUSINESS OUTCOMES



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#### **Customer Success Briefs**

## THANK YOU

Digital Customer Experience.

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