

AI Service Builder

We solve business challenges with AI services.

From planning and implementation to operations, we build AI systems that deliver real business value.

Who We Are

Connecting AI to business outcomes.

TOSKY is an AI/AX specialist that transforms enterprise operations through Generative AI, Vision AI, Multimodal AI, and Agentic AI.

Beyond model development, we provide end-to-end AI services covering planning, data development, AI model development, system implementation, and operations (MLOps).

+10

years

+50

Enterprise Customers

+100

Projects



Who We Are

From content creation and brand management to document automation and data analytics



Storyroom

AI-powered content creation platform

From video production to editing with a single prompt.



InnerScan AI

AI-powered industrial quality inspection

Analyzes sound and vibration data to detect equipment anomalies and defects early.



InnerSense AI

AI-powered disaster prediction and field monitoring

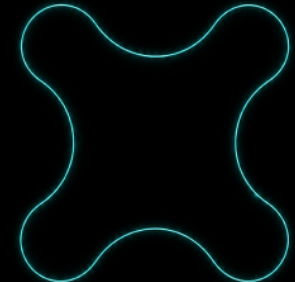
Analyzes real-time data to predict risks quickly.



InnerDraft AI

AI-powered design document automation

Automates design work from drawing creation to document generation.



Brand AI

AI for automated brand guideline review

Automatically manages brand consistency across logos, colors, fonts, and more.

Why TOSKY

Proven AI project experience



01

Manufacturing AI

- Multimodal equipment anomaly detection
- Sound- and vibration-based predictive maintenance
- Vision quality inspection
- AI safety management system



02

Enterprise AI

- Enterprise AI agent implementation
- Document generation AI
- Search AI (RAG)
- Workflow automation platform



03

Vision AI

- AI drawing review
- OCR automation
- Object detection
- Image analysis



04

Cloud & Platform

- AWS MSP
- FinOps platform
- AI platform implementation
- MLOps implementation

Our Solutions

AI Companion



Built on Multi-Agent and Context Memory, AI Companion remembers prior conversations, understands the situation, and delivers a naturally continuous in-vehicle AI experience.

AI Companion combines the Context Memory API with Multi-Agent Orchestration to understand both the user's previous conversations and current situation.

Rather than simply answering questions, it generates the most natural response based on location, time, conversation history, and preferences, while integrating with in-vehicle services to provide a continuous user experience.

5 Layer
AI Architecture

Context
Memory

Multi-Agent
Orchestration

SDV
Ready

AI Companion Architecture and Delivery Roadmap

A five-pillar architecture connects context, memory, agents, tools, and persona-aware responses.

Context & Memory

- Context engine: location, time, destination, and environment
- Memory layer: user definition, driving history, and conversation history
- Persistent memory supports personalized interactions

Agent & Tool Layer

- Agent selects tools, decides actions, and manages dialogue flow
- Tool layer connects recommendations, navigation, reservations, and execution

Persona LLM

- Natural conversation and personalized tone
- Integrates vehicle status, navigation, external APIs, and foundation models

Delivery Roadmap

1 In-vehicle Prototype

Multi-agent collaboration, context-aware vehicle functions, and response-generation logic.

2 Context Memory API

API specifications, sample code, and technical support for partner integration.

3 Integration PoC

End-to-end validation from voice input to agent collaboration and response generation.

AI Companion Validation Plan

A controlled comparison validates context retention, instruction recall, follow-up reduction, scenario success, and response latency.

Experiment Design

Baseline
Single LLM without Memory-Agent collaboration

Experimental Group
Long-term Memory API + Multi-Agent collaboration

Five-Step Scenario Flow

1 Context → 2 Memory → 3 Agent → 4 Tool Layer → 5
Persona

Example: recognize location, recall preferences, recommend a restaurant, launch navigation, and respond naturally.

Three-Stage Gate

Stage 1 · Foundation

Build evaluation scenarios, prepare Memory API integration, and establish the companion framework.

Stage 2 · Integration

Integrate the Memory API and compare first-round performance against the baseline.

Stage 3 · Demonstration

Complete the end-to-end PoC and validate integrated scenario success and improvement.

Our Solutions

InnerScan AI



A manufacturing AX solution that analyzes equipment sound and vibration data to detect failure signs and abnormal conditions early.

InnerScan AI analyzes equipment sound, vibration, frequency patterns, and spectrogram images to distinguish normal and abnormal conditions. It is designed to detect failures early and reduce quality defects and production downtime risks.

99.2 %

Detection accuracy

Faster insights

-45 %

Defect reduction

One-stop production platform

Industrial AI Quality System: Data to Monitoring

The solution collects raw equipment data, trains anomaly models, and delivers a production monitoring dashboard.

01 Data Collection

- Attach robots, microphones, vibration sensors, and DAQ hardware
- Synchronize time-series sound and vibration data
- Store source data in the cloud

Inputs

Sound data
Vibration data
Equipment images

02 Data Preparation & Modeling

- Missing-value handling and normalization
- Extract abnormal intervals
- Convert waveform and spectrogram images
- Build time-series features such as RMS, peak, crest factor, and kurtosis
- Train rule-based and deep-learning models

03 Service & Dashboard

- Real-time data integration and anomaly alerts
- Main dashboard for production status and defect statistics
- User-centered UX/UI for operators
- Integration with AI models and web servers
- Optimized and standardized operations

Year-One Performance Targets Achieved

The project exceeded its core software, AI, validation, productivity, hiring, and IP targets.

AI-based Defect Classification & Equipment Anomaly Detection SaaS

Validated in the field
Patent applications and registrations
AI reliability certification
Production validation

Project Contribution

Manufacturing AI transformation, local technology innovation, reduced production defects, lower cost losses, and fewer safety incidents.

Software / AI Development

Data collected: 306,000 vs. 300,000 target
F1 score: 0.80 vs. ≥ 0.65
Inference speed: 2.2 sec vs. ≤ 5 sec
Processing speed: 10 T/S vs. ≥ 10 T/S
Web service delivered: 1

Validation & Other Results

Defect detection rate: 95.6% vs. $\geq 65\%$
Equipment uptime: 97.1% vs. $\geq 80\%$
On-time compliance: 100%
Promotional video: 1
New hires: 5 vs. 3 target
Patent applications: 4 vs. 1 target

Data Collection Design

A synchronized sensor stack captured 306,000 manufacturing data points across sound, vibration, and converted images.

1 Noise Sensor

130F20
Accurately detects everything from low-level noise to machine sounds.

2 DAQ

MCM-6204
Transfers four sensor channels in real time without loss or delay.

3 Vibration Sensor

356A15, J352C33
Captures simultaneous X/Y/Z vibration and identifies patterns quickly.

4 Local PC

GF76 AI 8VF-R7
High-performance CPU/GPU platform for real-time data analysis and display.

Collection Workflow

Understand production and machine operation

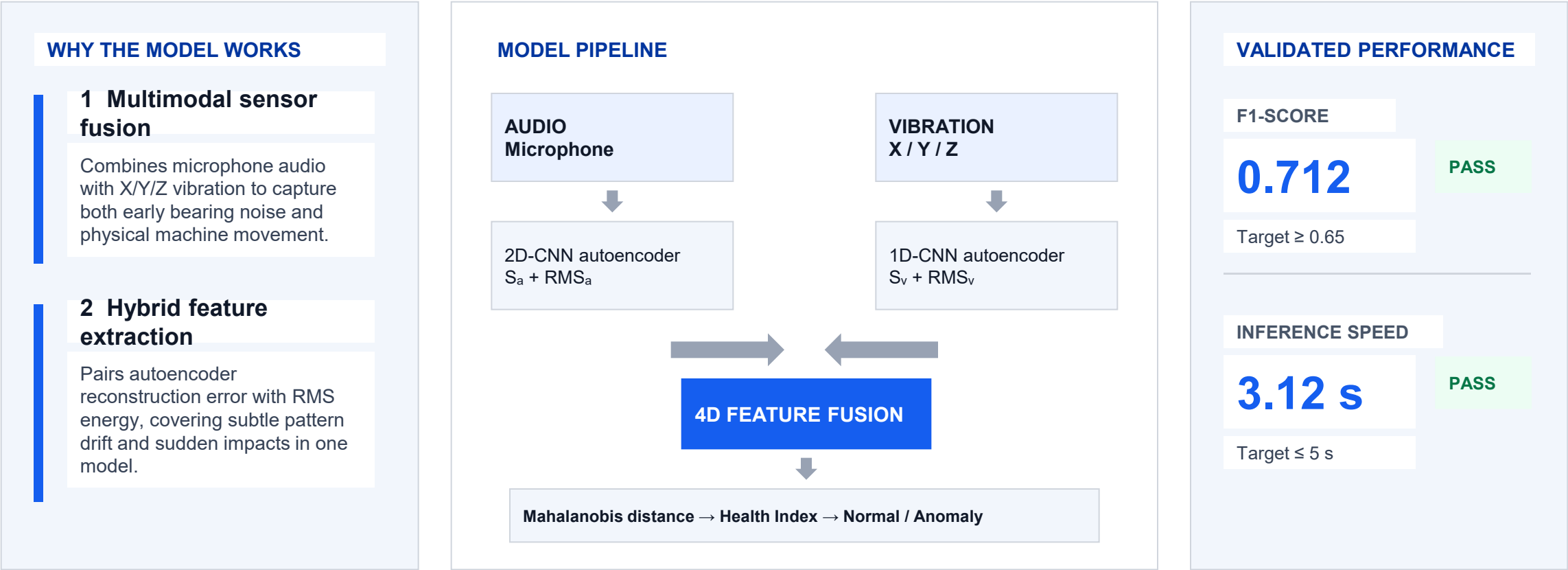
Identify sensor installation points and validate product results

Collect synchronized sound, vibration, and image data

Collected: 60,000 sound records · 180,000 vibration records · 66,000 converted image records

Multimodal fusion clears both accuracy and speed thresholds

Audio and 3-axis vibration features are fused into one anomaly score for fast, low-false-alarm defect detection.



Dashboard Development and Field Validation

The production dashboard connects live sensor streams with real-time sound and vibration anomaly detection.

Dashboard

- Real-time statistics
- Sound data and spectrograms
- Vibration data and spectrograms
- Equipment alerts and event history
- Factory-floor monitoring

Field validation confirmed that operators can review signals, alerts, and historical decisions in one interface.

Real-Time Data Integration

Streams raw sensor data, updates waveforms and spectrograms, triggers AI alerts, and stores results for history review.

Sound Change Detection

Transforms live audio into frequency spectra and flags abnormal patterns based on learned data.

Vibration Change Detection

Analyzes real-time vibration spectra, identifies subtle changes, and alerts operators to abnormal equipment conditions.

Our Solutions

H Agent

Hyundai Motor H Agent

An internal AI platform built on Hyundai Motor Group's HMG-SSO integrated authentication and HCloud private cloud. Employees can access it immediately using corporate accounts, with permissions automatically configured by organization and role. Sensitive data is securely managed in the private cloud, while network and server zones are separated for robust security and stable operations.

Key Feature

Seamless SSO Access: Access AI Lounge instantly with an HMG-SSO account, without separate registration.

Automated IAM Control: Automatically maps service and agent permissions based on employee organization and role.

Private Cloud Security: Manages sensitive data within HCloud and securely separates internal network and server zones.

Secure DevOps Operation: Provides standardized security processes from environment separation and CI/CD to security review and production deployment.



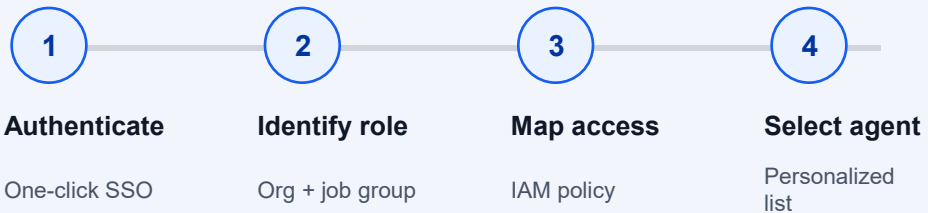
HMG-SSO and HCloud unite seamless access with enterprise security

H Agent combines integrated identity, automated authorization, private-cloud controls, and a governed deployment path.

SEAMLESS ACCESS

HMG-SSO integrated authentication

Employees use existing corporate accounts—no separate registration—while permissions are configured automatically by organization and role.



Immediate access without sign-up—while session controls and employee-status checks protect the service.

ENTERPRISE SECURITY

HCloud private-cloud governance

Sensitive data stays inside a group-managed private cloud with separated network and server zones.

DATA CONTROL
Private-cloud management of sensitive information

ZONE SEPARATION
Office network → HCloud server boundary

SECURITY STANDARD
HMG IT guidelines and review controls

Governed release path

Dev / Ops separation

CI/CD pipeline

Code + SAST review

Production deployment

OUTCOME

Fast employee access, least-privilege authorization, protected data, and a controlled path to production.

Intelligent AI Trend Curation Pipeline

A three-stage pipeline collects multidimensional sources, scores trends with TF-IDF, and publishes LLM-generated web reports.

1 Data Collection & Preprocessing

Sources

- Research: arXiv, Semantic Scholar, Crossref
- Open source: Hugging Face
- Blogs/news: RSS, tech blogs, AI news

Pipeline

- API/RSS automation
- Keyword-based collection
- Scheduled batch jobs
- Unified preprocessing

2 Trend Scoring (TF-IDF)

- Calculate TF-IDF weights
- Measure frequency growth
- Evaluate source diversity
- Reflect recency in ScoreDB

Outcome

Quantitative trend ranking across multiple sources

3 LLM Web Report Publishing

- H-Chat Pro integration
- Automated trend-evaluation scheduler
- Backend/frontend publishing
- ReportDB storage and query

Output

Title, trend score, tags, and LLM-generated summary

H Agent Enterprise AI Workspace

H Agent combines SSO, role-based access, private cloud security, and a unified AI productivity workspace.

HMG-SSO

Integrated authentication with seamless employee access.

IAM Permissions

Role- and organization-based access control.

Unified AI Workspace

AI Assistant · Document Summaries · Data Analytics · Image Generation · Coding Support

Personal Workspace
Assigned permissions · Alerts · Participating conversations · Recent documents

Recommended AI Agents
Report writing · Market analysis · Technical document summarization · Code review

HCloud

Private cloud infrastructure with secure data management.

Optimized UI/UX

Consistent interfaces for a streamlined user experience.

Stronger security · Higher user efficiency · Active collaboration · Maximum reuse of technical assets

Our Solutions

Brand AI

Hyundai Motor BMS

We are developing an AI system that reviews Hyundai Motor's brand manuals and guidelines. It combines vision models with font-analysis models, including Gemini-based approaches, to identify logos, colors, fonts, and other visual elements automatically. The AI checks design consistency and compliance with brand standards in real time.

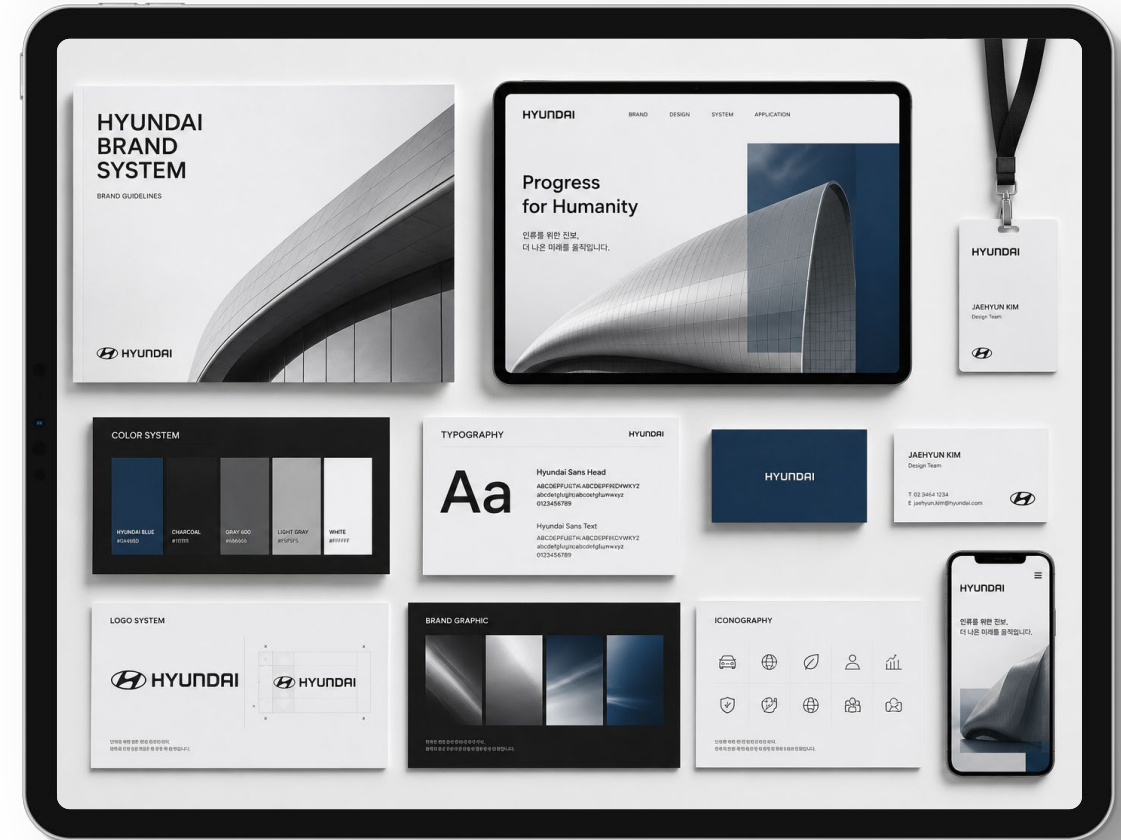
Key Feature

Brand Rule Intelligence: AI understands brand guidelines and applies rules automatically.

Vision AI Inspection: Automatically analyzes logos, colors, fonts, layouts, and other visual elements.

LLM-based Validation: Reviews brand context together with design intent.

Enterprise Automation: Automates repetitive brand-review work to improve operational efficiency.



Our Solutions

Brand AI

01

Logo Inspection

AI analyzes logo position, size, proportion, clear space, distortion, and version to verify correct application of brand identity.

02

Typography Inspection

Analyzes designated typefaces and copy rules to maintain typographic consistency and readability while ensuring compliance with brand guidelines.

03

Color Inspection

Analyzes color codes, contrast, accessibility, and prohibited combinations to verify the consistency and accuracy of the brand color system.

04

Layout Inspection

Automatically evaluates visual structure, element placement and balance, information hierarchy, and compliance with layout rules.

InnerSense AI

InnerSense AI integrates video, sound, vibration, temperature, gas, and environmental sensor data to assess industrial risks. It connects multiple sensor streams into one AI decision framework and classifies field conditions as observe, caution, warning, or emergency.

Multimodal AI: Analyzes video, sound, vibration, and environmental data simultaneously.

Predictive Analytics: Anticipates abnormal signs to minimize risk.

Real-time Monitoring: Monitors field conditions in real time.



Our Solutions

InnerSense AI

01

Sound Agent

Analyzes abnormal sounds and pattern changes in equipment and processes to detect noise-based anomaly signals early.

03

Air Quality Agent

Detects harmful airborne elements and environmental changes to monitor workplace anomalies and hazards.

02

Vibration Agent

Analyzes subtle vibration changes and frequency patterns to identify structural anomalies or equipment condition changes.

04

Vision Agent

Analyzes visual anomalies, abnormal behavior, and process errors from video data to assess the situation.



Our Solutions

InnerDraft AI

AI system for drawing review and generation

Enter a single prompt and AI automatically creates the storyboard, images, video, audio, and subtitles. It is an AI content creation platform that enables anyone to produce and revise high-quality content quickly without professional editing skills.

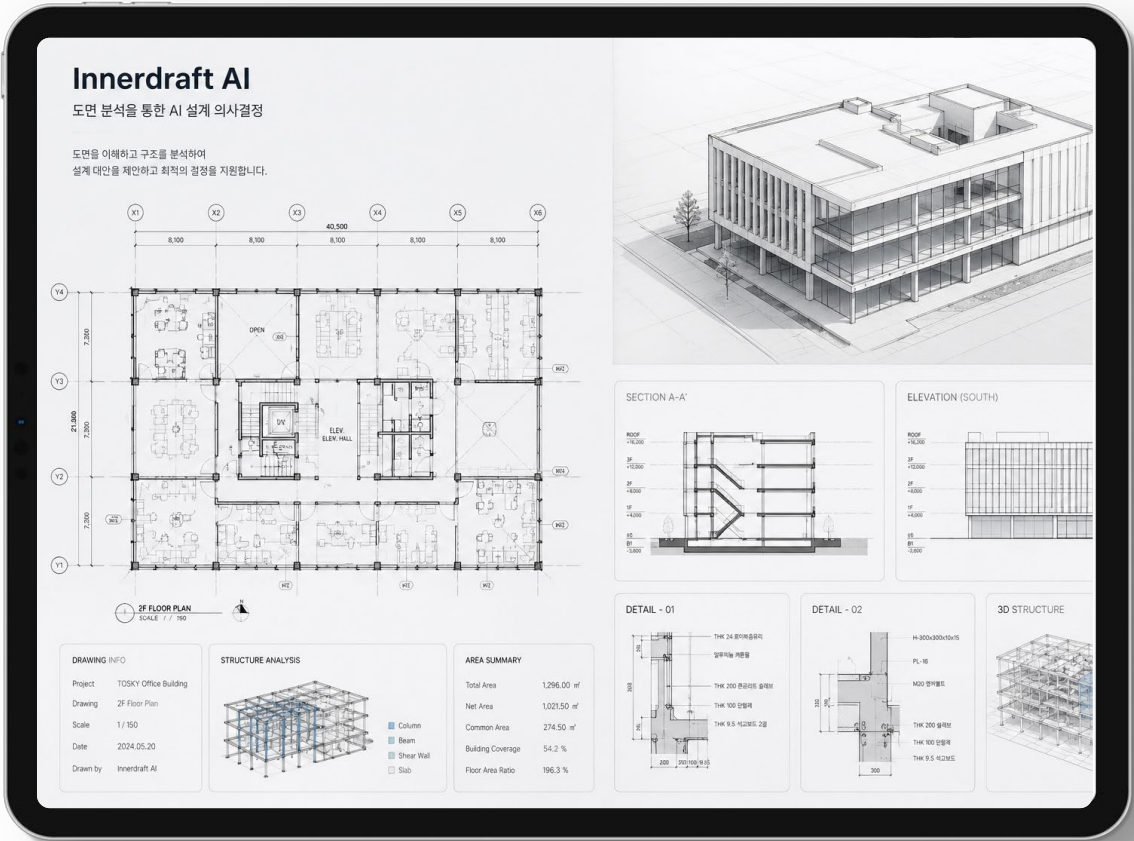
Key Feature

CAD Understanding: AI understands structures and objects in 2D and 3D drawings.

AI Design Review: Automatically checks design errors and regulatory violations.

Drawing Generation: Generates and revises drawings based on design conditions.

Engineering Decision Support: Supports engineering decisions using drawing-analysis results.



Our Solutions

InnerDraft AI

01

Automated CAD Drawing Recognition

Automatically analyzes CAD drawings including DWG and DXF, accurately understands structures and objects, and rapidly digitizes design data.

02

Spatial Intelligence AI

Converts 2D drawings into spatial data, precisely analyzes relationships and structures, and visualizes design information spatially.

03

Design Pattern Learning

Continuously learns from accumulated design data, analyzes recurring patterns and structures, and predicts and recommends optimal design directions.

04

AI Design Decision Engine

Reviews design standards and engineering rules, detects errors and potential conflicts early, and supports more accurate design decisions.

Partners

Trusted by leading enterprises, public institutions, and global companies



Our Solutions

Storyroom

Fast, easy content creation platform

Enter a single prompt and AI automatically creates the storyboard, images, video, audio, and subtitles. Anyone can quickly create and revise high-quality content without professional editing skills.

5 mins

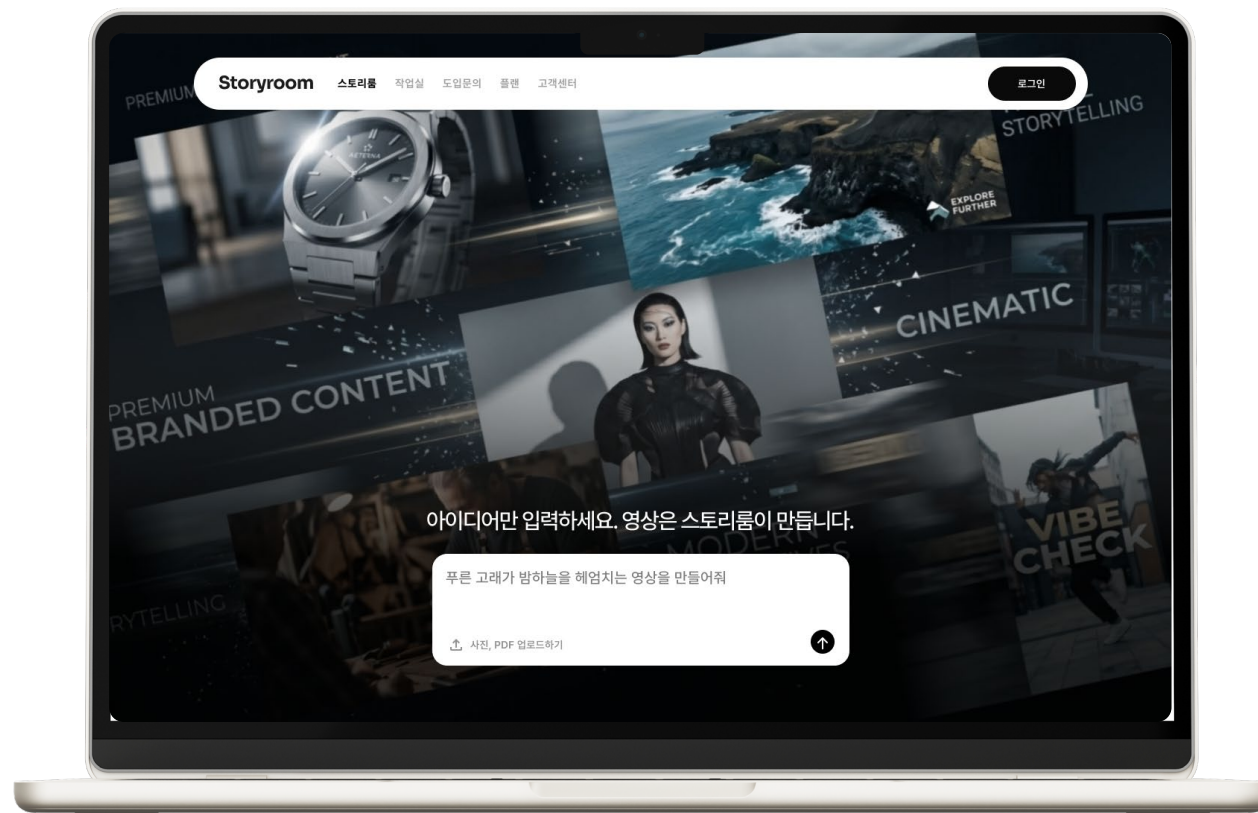
Video production time

Rapid ideation

6 Ai tools

Integrated production environment

One-stop production platform





Our Solutions

Storyroom

One-stop solution for diverse content creation

Storyroom is more than an AI video generator. It is an AI content creation platform that completes planning, storyboarding, image and video generation, voice production, and subtitle editing in a single workflow. Anyone can create education, marketing, and corporate content quickly and easily.

Key Feature

AI scenarios & templates

AI image and video generation

Natural voice generation



Contact

Build business success with TOSKY



Company	TOSKY
Address	9-16, Yeonmujang 5-gil, Seongdong-gu, Seoul, Republic of Korea
Contact	+82-02-453-4628
E-mail	groove2u@tosky.co.kr
Website	tosky.co.kr

Thank you

Portfolio

Portfolio

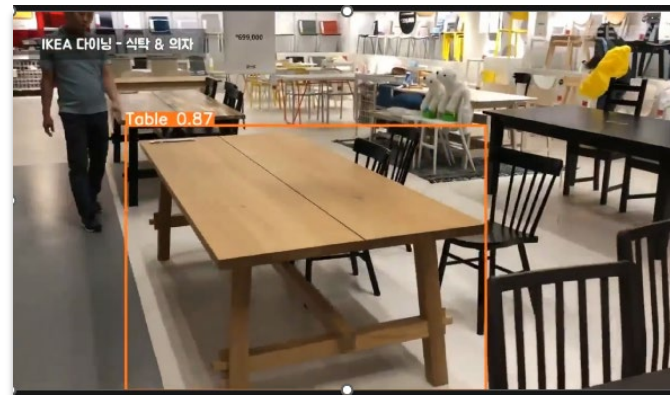
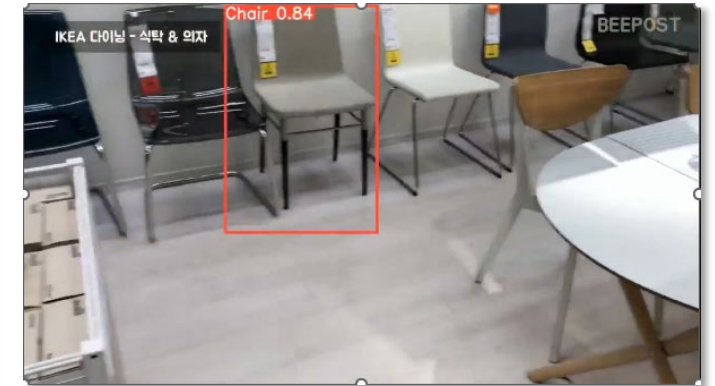
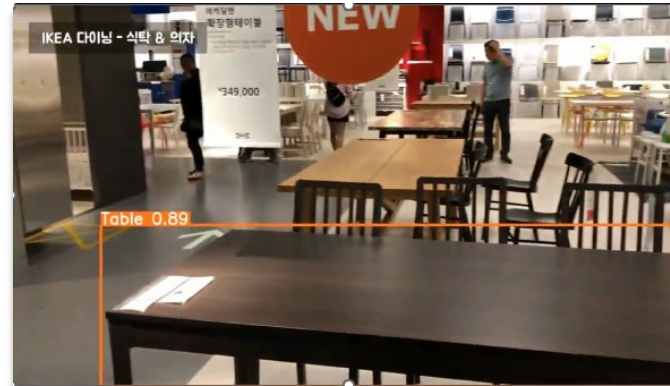
Smart Vision AI

Furniture object detection model for IKEA stores

This project developed a YOLOv8-based object detection model to recognize and classify major furniture items such as chairs, desks, and sofas. A dataset of 689 furniture images was built and trained using realistic environments similar to IKEA products. Initial data bias issues, including centered objects and static images, were improved to increase usability across diverse backgrounds and conditions.

Contractor TOSKY Inc.
Period 2024.06–Present

Google Cloud Platform (GCP)
Compute Engine (VM-based service operations)
Cloud GPU (NVIDIA A100, T4 for accelerated training and inference)
Cloud Functions (event-driven serverless architecture)
Cloud Run (container-based scalable application deployment)
Vertex AI (custom model training, deployment, and MLOps)
Cloud Storage (training data and model archiving)



Portfolio

SmartBus Vision

AI-based passenger boarding and alighting count system

This smart mobility solution uses in-vehicle cameras and video analytics to automatically count boarding and alighting passengers. AI-based detection calculates passenger flows in real time and collects ridership-pattern data by time period and route.

Contractor TOSKY Inc.
Period 2022.03–Present

Google Cloud Platform (GCP)
Compute Engine (VM-based service operations)
Cloud GPU (NVIDIA A100, T4 for accelerated training and inference)
Cloud Functions (event-driven serverless architecture)
Cloud Run (container-based scalable application deployment)
Vertex AI (custom model training, deployment, and MLOps)
Cloud Storage (training data and model archiving)



Portfolio

Human ICT Vision

MSA implementation for the ACT Vision management system

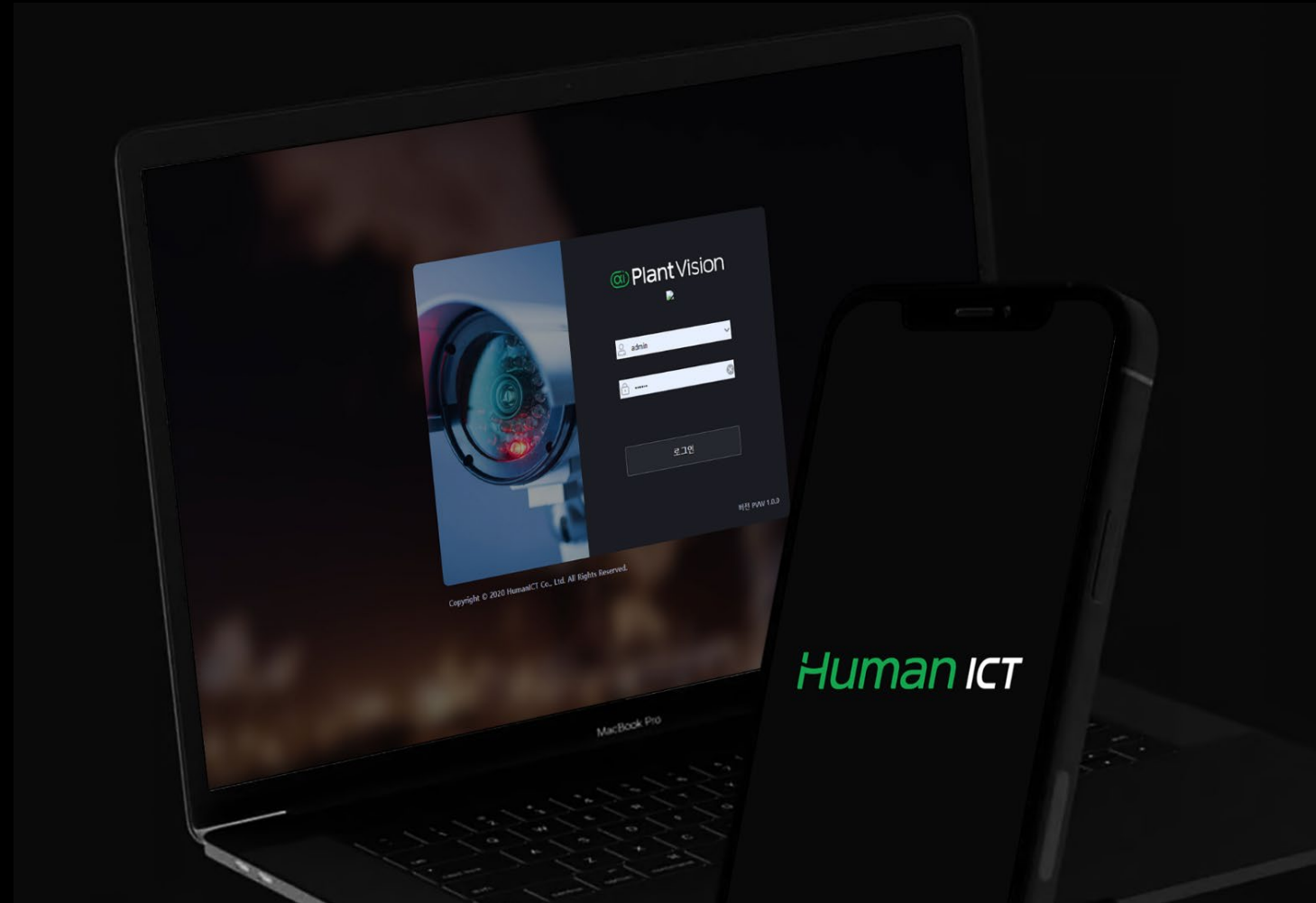
AI Vision is a vision-based risk detection system developed by Human ICT. We optimized the AI Vision model and applied a microservices architecture to an existing management site that had been built as a monolithic system.

Client Human ICT

Period 2021.11–2022.03

Scope
Development / Architecture implementation

Technology Stack
Java 11 (Spring Boot), MySQL, Python, Kubernetes, Lambda, Docker



Portfolio

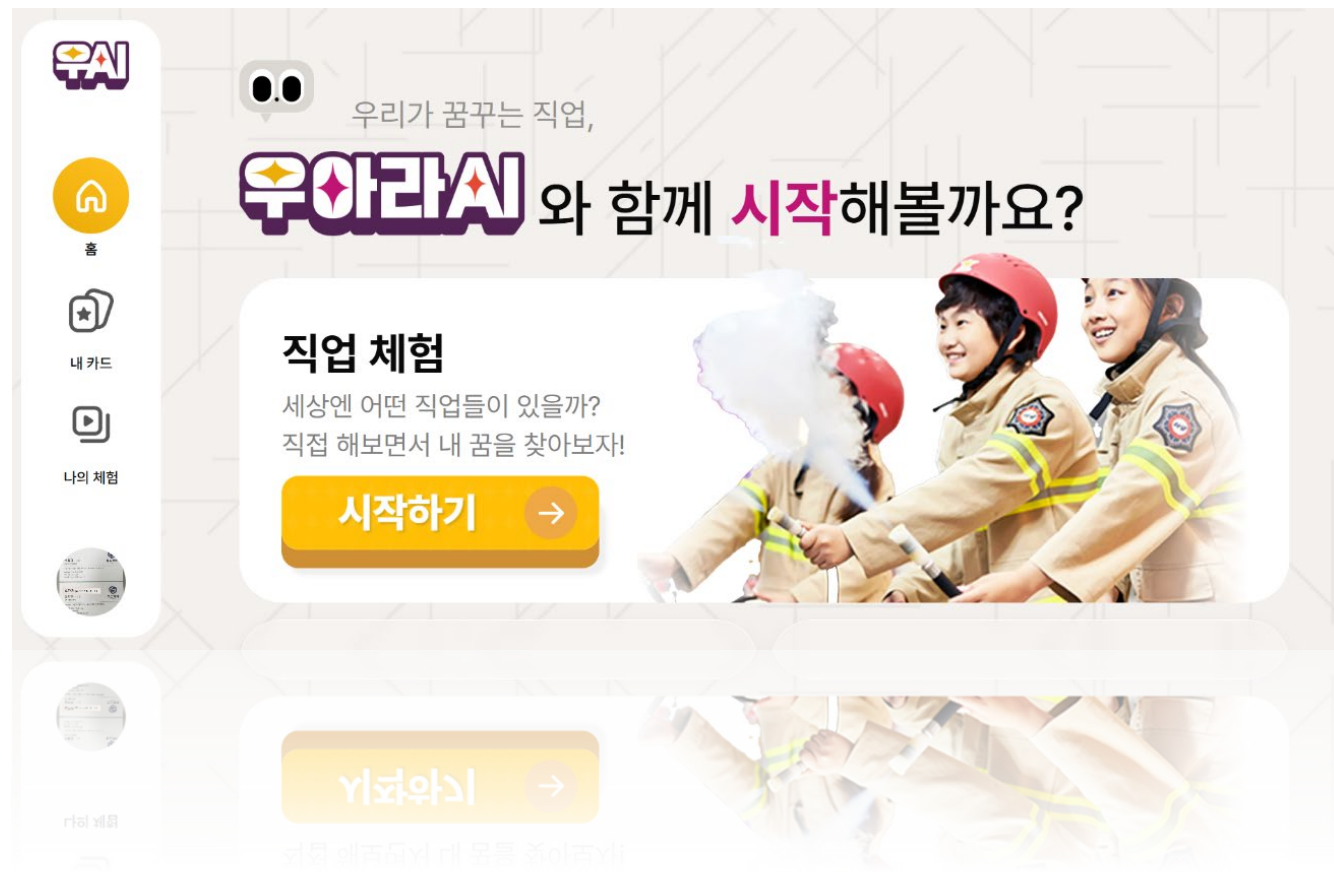
Our Child Life

UARA AI

UARA AI is an intelligent teaching and learning platform powered by advanced generative LLMs, covering learning, assessment, and career exploration. Beyond simple Q&A, it generates customized questions and evaluates answers based on each user's level and goals. It can create and grade math problems to assess understanding, or present job-specific scenarios and analyze responses to evaluate aptitude and work preferences.

Contractor	TOSKY Inc.
Period	2025.03–Present

Google Cloud Platform (GCP)
Compute Engine (VM-based service operations)
Cloud GPU (NVIDIA A100, T4 for accelerated training and inference)
Cloud Functions (event-driven serverless architecture)
Cloud Run (container-based scalable application deployment)
Vertex AI (custom model training, deployment, and MLOps)
Cloud Storage (training data and model archiving)



Portfolio

AI Story Generation

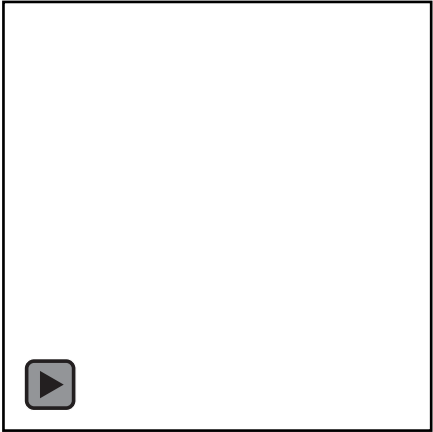
Generative AI Short-Form Story System

We built a system that uses generative AI to create videos from a wide range of children's stories. Images and storylines are generated with AI, while AI voice can be trained on the user's own voice or a celebrity voice to narrate the story.

Contractor TOSKY Inc.
Period 2024.10–Present

Scope
Planning / Design / Development / AI voice generation

Technology Stack
AWS ECS, Cognito, S3, Amplify, API Gateway, RDS, CloudWatch



Portfolio

Our Child AI

AI-based teaching and learning platform for Ulsan Education Office

Our Child AI is an AI-based teaching and learning platform developed by the Ulsan Metropolitan Office of Education. It provides personalized learning experiences tailored to each student's level and needs. Through 101 inquiry-based lesson models across Korean, mathematics, social studies, science, and English, plus HelpNow Q&A, it supports self-directed critical thinking and effective classroom assistance for teachers.

Client Ulsan Metropolitan Office of Education

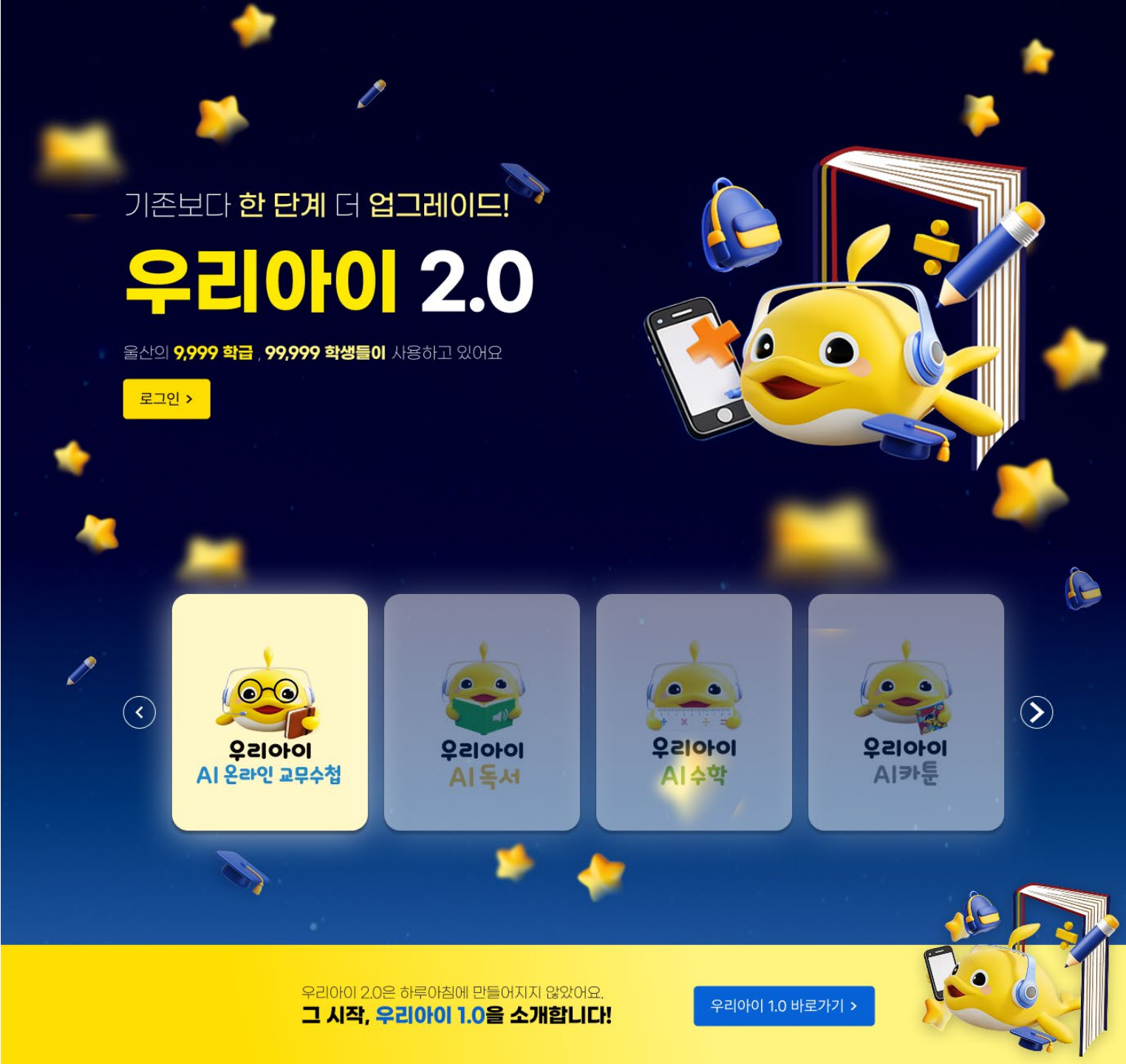
Period 2024.08–Present

Scope

Website design and implementation

Technology Stack

Multi-LLM chat interface



Portfolio

AI Lounge

Hyundai Motor Group AI Lounge

AI Lounge integrates and manages Hyundai Motor's AI assets while supporting seamless sharing and communication across departments. Using LLMs, it provides efficient content generation features such as image creation and summarization, strengthening collaboration and maximizing the use of AI assets.

Client

Hyundai Motor Company

Period

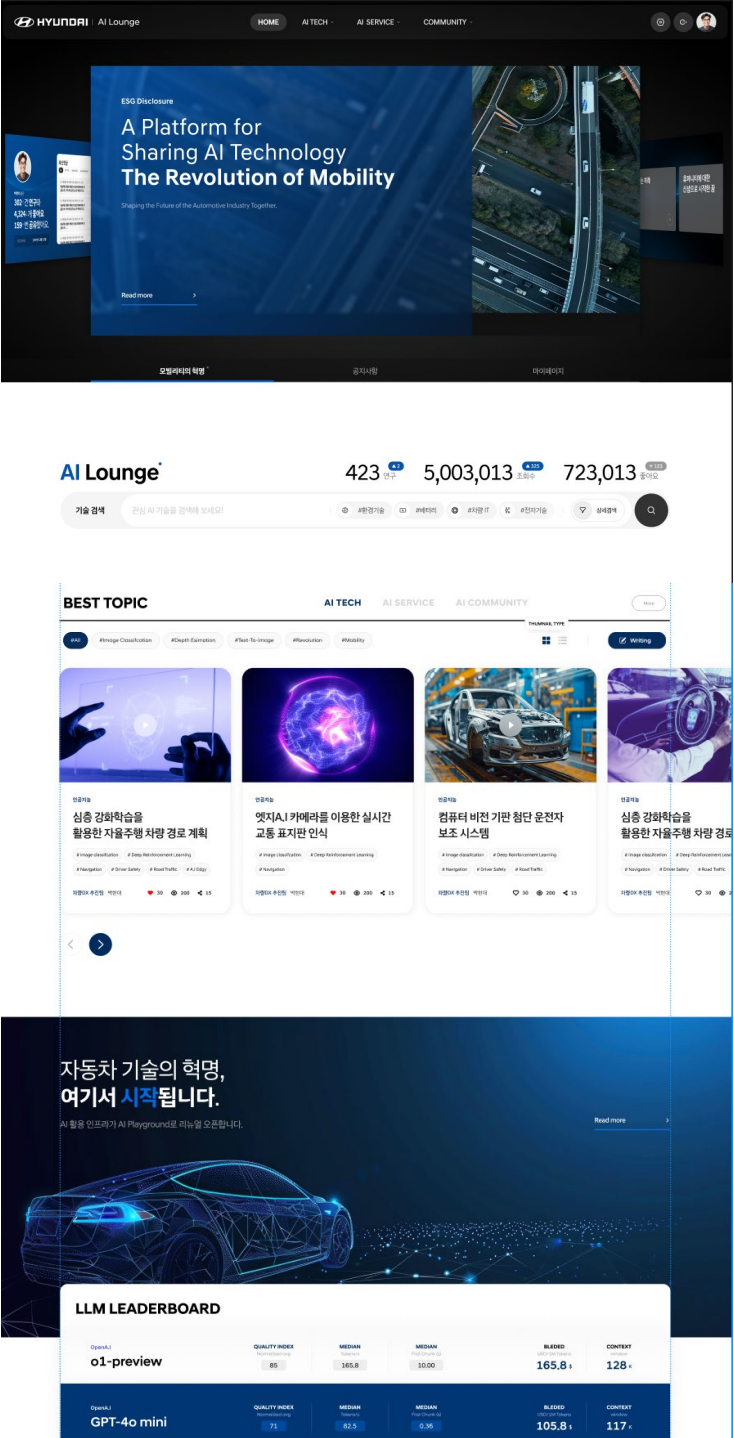
2024.10–Present

Scope

Planning / Design / Development

Technology Stack

AWS ECS, Cognito, S3, Amplify, API Gateway, RDS, CloudWatch



Portfolio

Hyundai Motors X Google

Generative content integration and creation

In collaboration with Google, we conducted a PoC that uses LLMs to summarize, translate, and restructure Hyundai Motor's technology assets and create generative images and videos. The project searches YouTube content to summarize competitor technology trends and customer reactions, and combines relevant research papers with Hyundai Motor's internal assets to produce integrated content.

Client Hyundai Motor Company

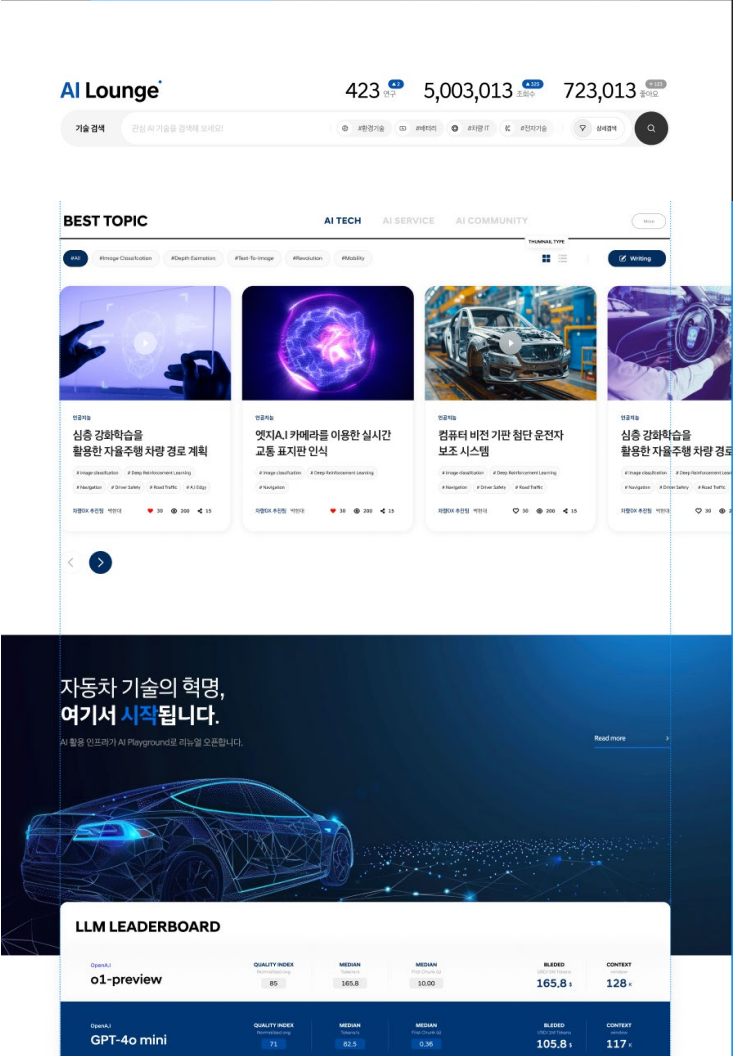
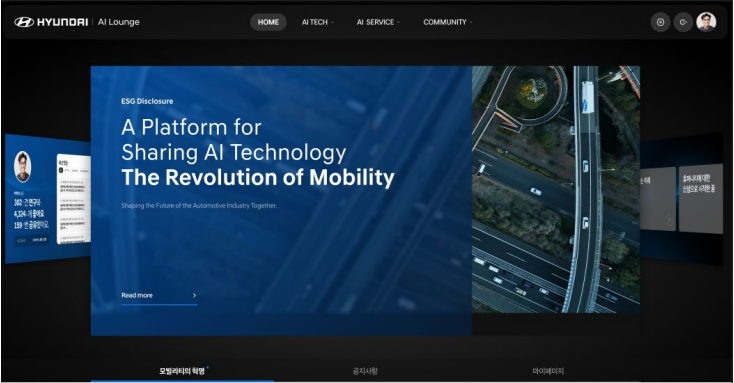
Period 2025.02–Present

Scope

Automated content creation using generative AI

Technology Stack

AWS ECS, Cognito, S3, Amplify, API Gateway, RDS, CloudWatch



Portfolio

Hyundai Motors X Google

Unified search and utilization across databases and enterprise systems

In collaboration with Google, we are conducting a PoC that integrates Hyundai Motor's enterprise data—including ERP, HR, and system databases—regardless of format or relationship. Databases and documents such as PDF and PPTX are combined for complex search, enabling unified retrieval across documents, video, and images.

Client Hyundai Motor Company

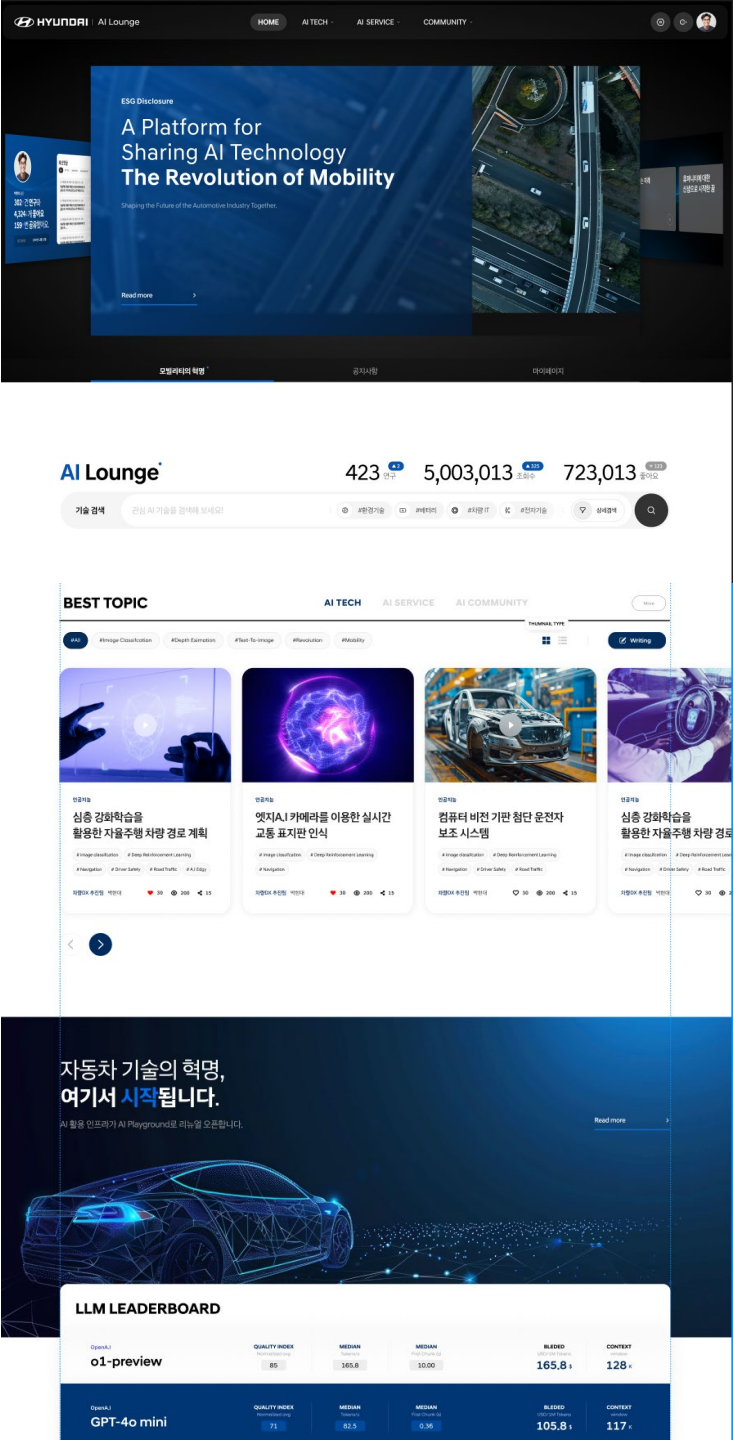
Period 2025.02–Present

Scope

Elasticsearch across diverse data sources

Technology Stack

AWS ECS, Cognito, S3, Amplify, API Gateway, RDS, CloudWatch



Portfolio

Mark Now

Vision AI trademark recognition and image comparison model

MarkNow uses advanced computer vision and deep-learning models to detect trademarks, logos, and symbols in images automatically. Trademark images are converted into feature embeddings so similarity with existing marks can be quantified. This enables early identification of duplicate or similar trademarks and improves legal and administrative review efficiency.

Contractor TOSKY Inc.
Period 2025.01–Present

Google Cloud Platform (GCP)
Compute Engine (VM-based service operations)
Cloud GPU (NVIDIA A100, T4 for accelerated training and inference)
Cloud Functions (event-driven serverless architecture)
Cloud Run (container-based scalable application deployment)
Vertex AI (custom model training, deployment, and MLOps)
Cloud Storage (training data and model archiving)



Portfolio

ServicePlex

Integrated cost management based on CUR and SAP data

ServicePlex is an integrated FinOps platform that combines SAP data with cloud usage data to calculate costs precisely. It automates billing by organization, service, and customer based on resource consumption, improving allocation accuracy. Cost accounting also supports service profitability analysis and unit-economics-based decisions.

Client	Bespin Global
Period	2025.01–Present

Amazon Web Services (AWS)

Amazon EKS (Kubernetes orchestration and rolling deployment)

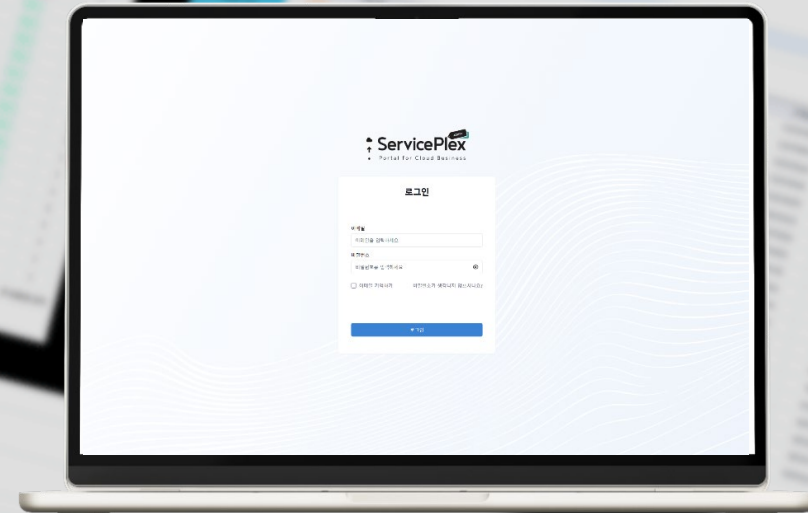
Amazon EC2 (application and worker-node operations)

AWS Auto Scaling (traffic-based infrastructure scaling)

Amazon S3 (usage, log, and settlement data storage)

AWS Lambda (event-driven cost processing and batch automation)

Amazon RDS / Aurora (settlement and billing database management)



Portfolio

AI Portal Service

AI data-based model training portal service

AI models require training data, typically sourced from big-data systems. This AI data portal automatically extracts and classifies data from those systems, organizing it into model-ready training datasets.

Client Bespin Global

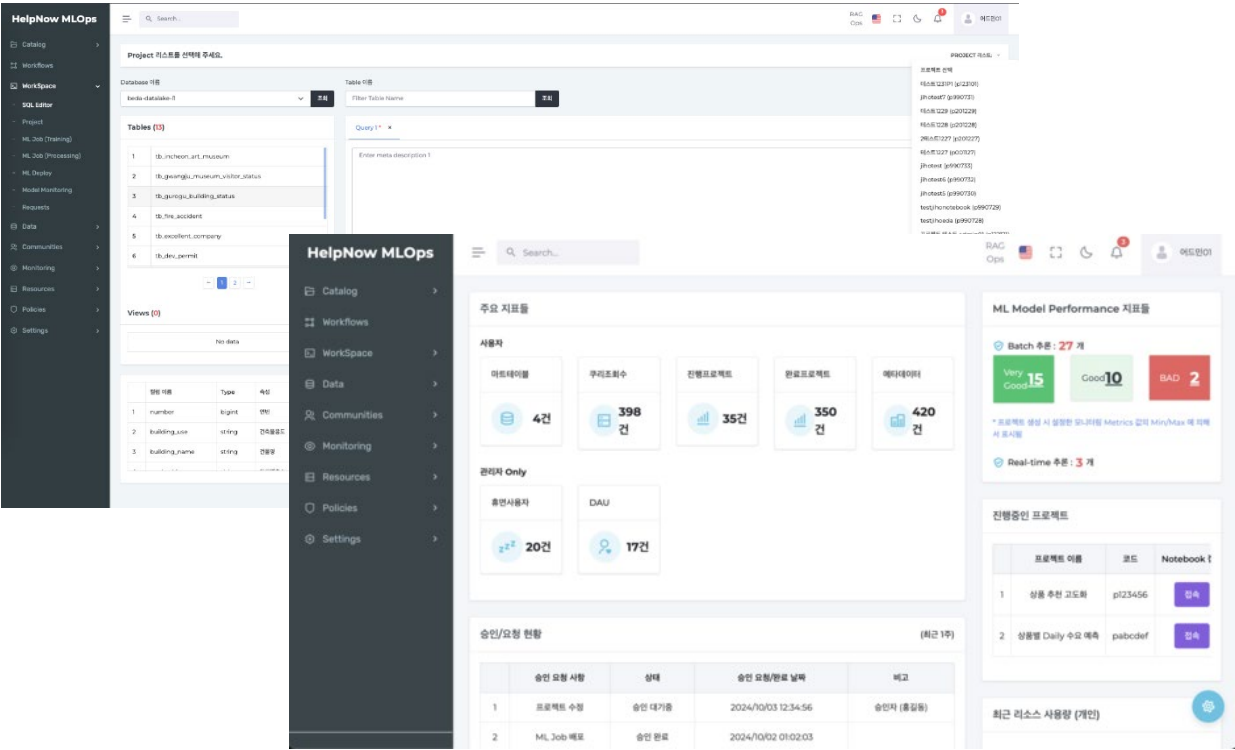
Period 2024.12–Present

Scope

Planning / Design / Development

Technology Stack

AWS SageMaker, ECS, Cognito, S3, Amplify, API Gateway, RDS, CloudWatch



Portfolio

Dynamic Advertising

Dynamic advertising system

We developed a dynamic advertising system for convenience stores. Ads can be scheduled by region, time, and campaign, with uninterrupted playback even in unstable environments. Online updates allow videos and images to be replaced in real time, while module health monitoring and alerts enable immediate administrator response.

Client PMK

Period 2024.10~

Scope

Planning / Design / Development

Technology Stack

AWS ECS, Cognito, S3, API Gateway, RDS, CloudWatch



Portfolio

Smart Pet Grinder

Recyclable PET bottle processing machine

Smart PET Grinder uses AI to check incoming recyclable PET bottles for caps and other contaminants, accepts clean bottles, and reprocesses them into flakes that can be used directly as recycled-plastic feedstock. TOSKY is developing an easy-to-use UI/UX for the core 30–50 age group and linking reward points with partners such as Starbucks and E-Mart to encourage efficient recycling.

Client	SPG Group
Period	2024.11~
Scope	Planning / Design / Development

Technology Stack
AWS ECS, Cognito, S3, Amplify, API Gateway, RDS, CloudWatch



Portfolio

Property Management System

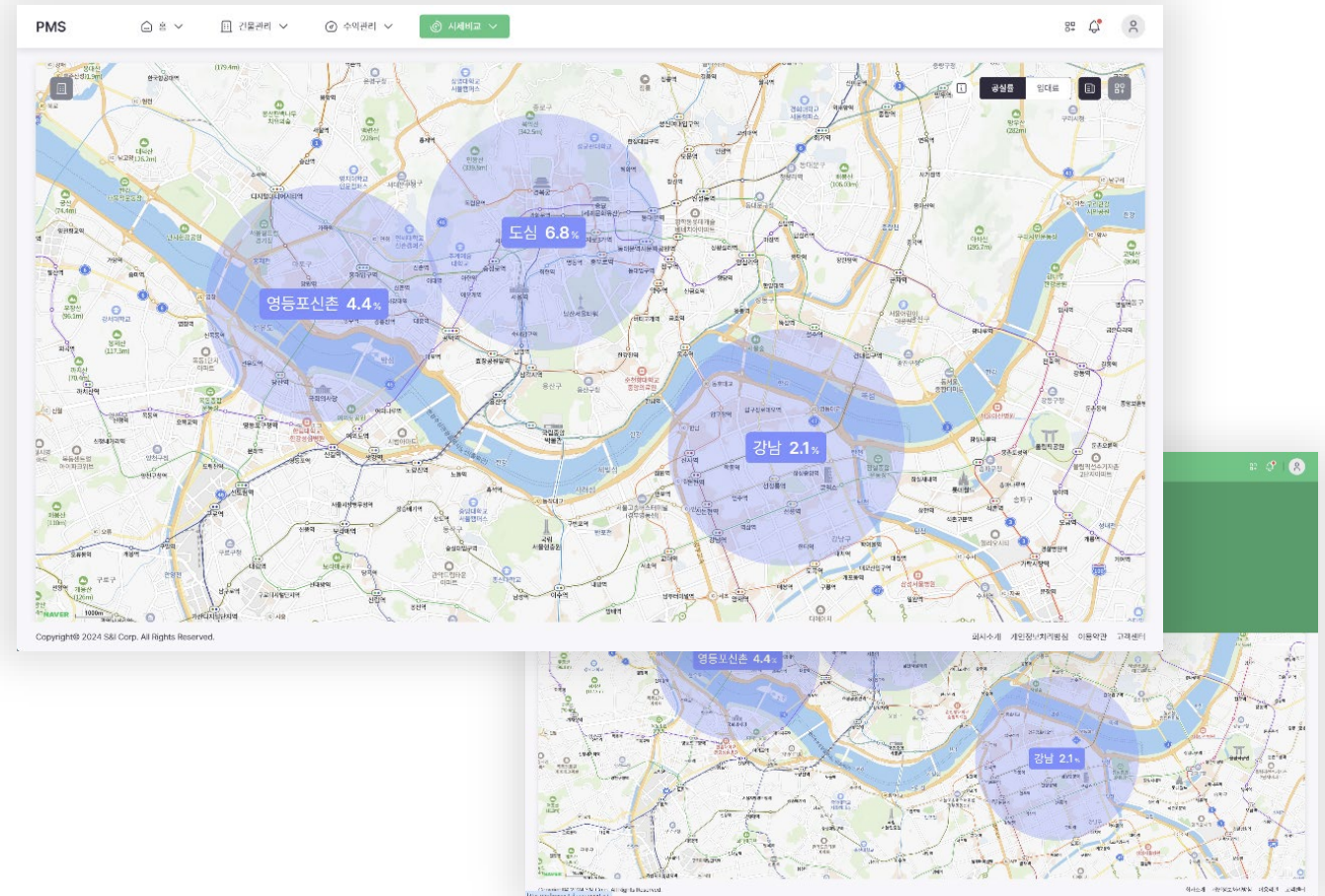
Integrated real-estate asset management system

A comprehensive real-estate asset management system. A revenue dashboard compares current performance with targets and recommends solutions to improve returns. Advanced analytics and industry trend data support efficient contract management and real-time benchmarking of similar properties. Contract status, financial statements, and marketing tools enable systematic portfolio management.

Client SNI Corporation
Period 2024.03–Present

Scope
Planning / Design / Development

Technology Stack
AWS ECS, Cognito, S3, Amplify, API Gateway, RDS, CloudWatch



Our Solutions

LG Affiliate Project

SANDI

This project built a mobile app that integrates space reservations, umbrella rentals, parcel pickup, and other convenience services for users of LG affiliate buildings. IoT equipment integration and a stable backend improve facility utilization and deliver a user-centered smart-building experience.

Client S&I Corporation

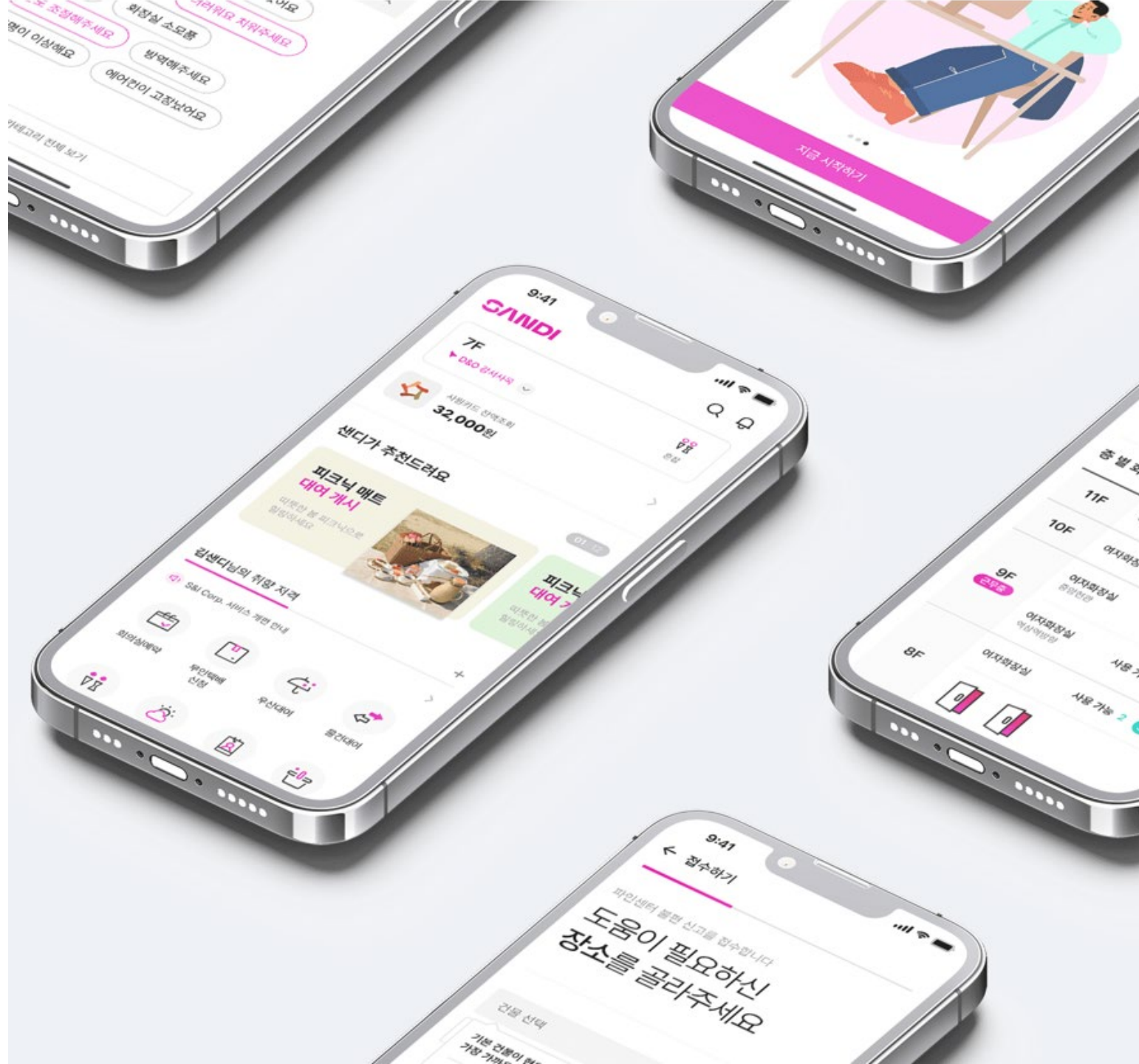
Period 2022.08–Present

Scope

Planning / Design / Development / Architecture implementation

Technology Stack

AWS IoT Core, ECS, Java, PostgreSQL



Our Solutions

SANDI 2.0

Emergency evacuation service

We developed an emergency evacuation system that quickly identifies evacuees and tracks evacuation status during fires and other emergencies. Starting with alerts via Kakao notifications and push messages, continuous monitoring and control help manage evacuation throughout the incident. Drills were conducted for 20,000 employees across LG Electronics, LG Uplus, and LG Innotek, demonstrating system stability and effectiveness.

Client S&I Corporation

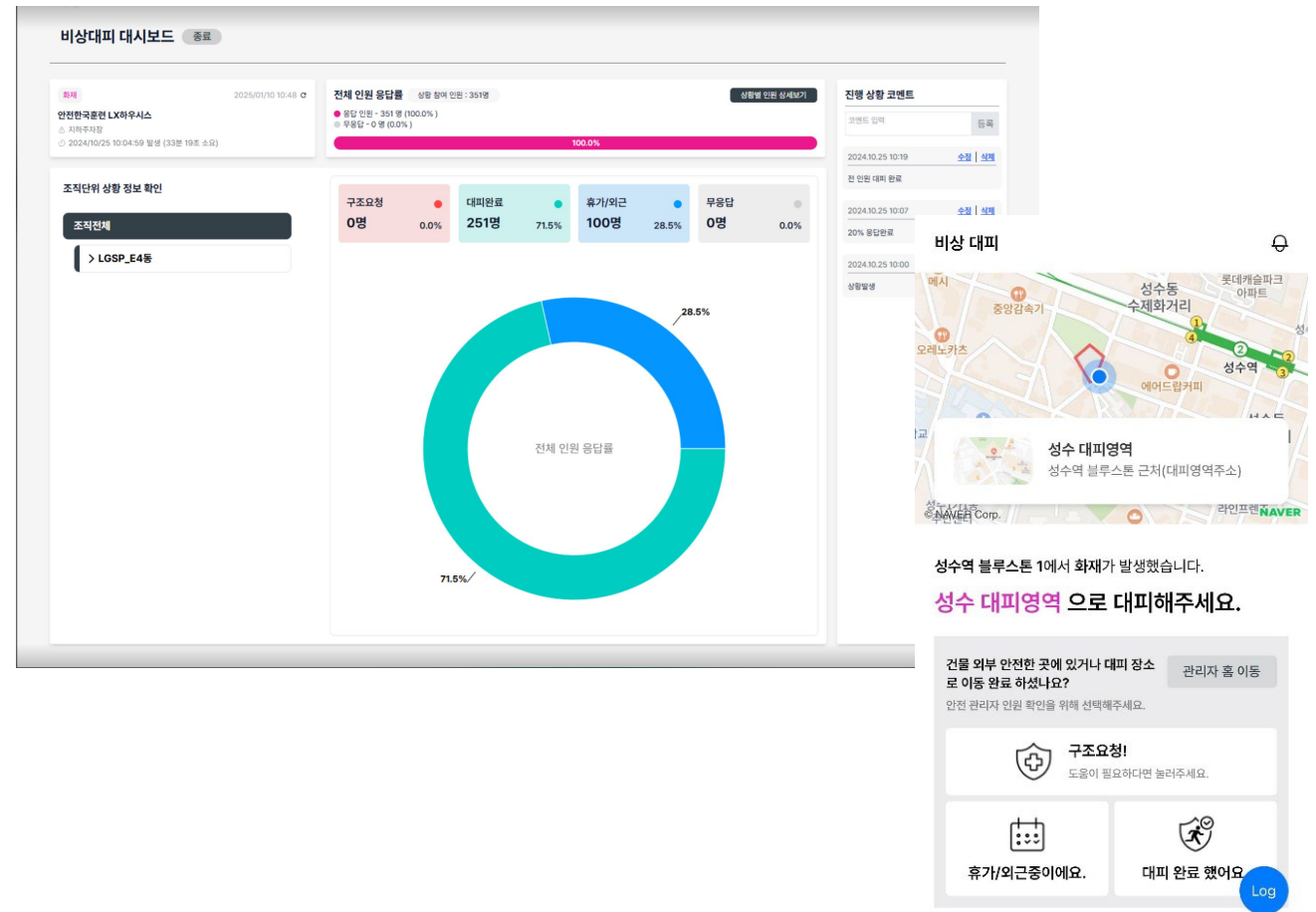
Period 2022.08–Present

Scope

Planning / Design / Development / Architecture implementation

Technology Stack

AWS IoT Core, ECS, Java, PostgreSQL



Portfolio

LIC Refreshment System

Refresh device information and system implementation

The LIC Refreshment project expanded LIC Inspection capabilities to increase revenue and renewable use, automating the Asset Life-Cycle Report (iTrack) and building a total CRM system. A refreshed-device concept was introduced into the Asset-Qure-Case customer care flow. Users can review device information at a glance and export device, kit, and delivery data in the required format.

Client Philip Morris Korea

Period 2024.03–Present

Scope
Development

Technology Stack
Salesforce



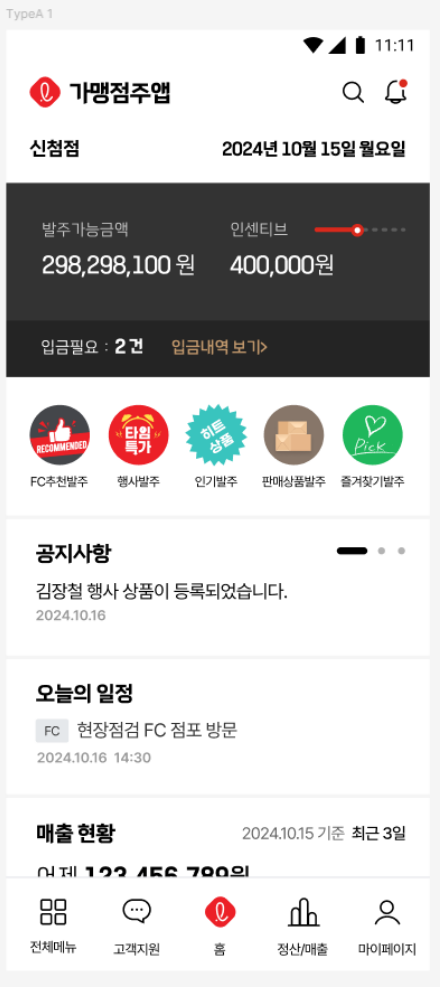
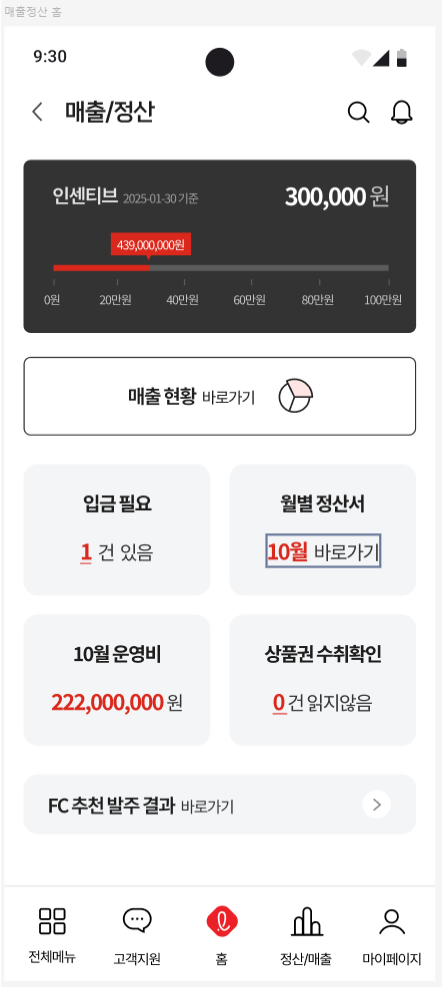
Portfolio

Lotte Super & Mart

Integrated ordering system for Lotte Super & Mart

As Lotte Super and Lotte Mart integrated their ERP systems, store owners needed a unified product-ordering solution. TOSKY developed an integrated ordering application that enables convenient, centralized product ordering.

Client	Lotte Mart
Period	2024.07–Present
Scope	
Development	
Technology Stack	
Salesforce	



Portfolio

i-connect Center

AI customer contact center platform

We developed a SaaS service for Kakao Enterprise, integrating six systems including callbots and chatbots into one SaaS platform. AI reduces the volume of inbound customer-center calls significantly, and the service is currently used by customers including Daiso.

Client Kakao Enterprise

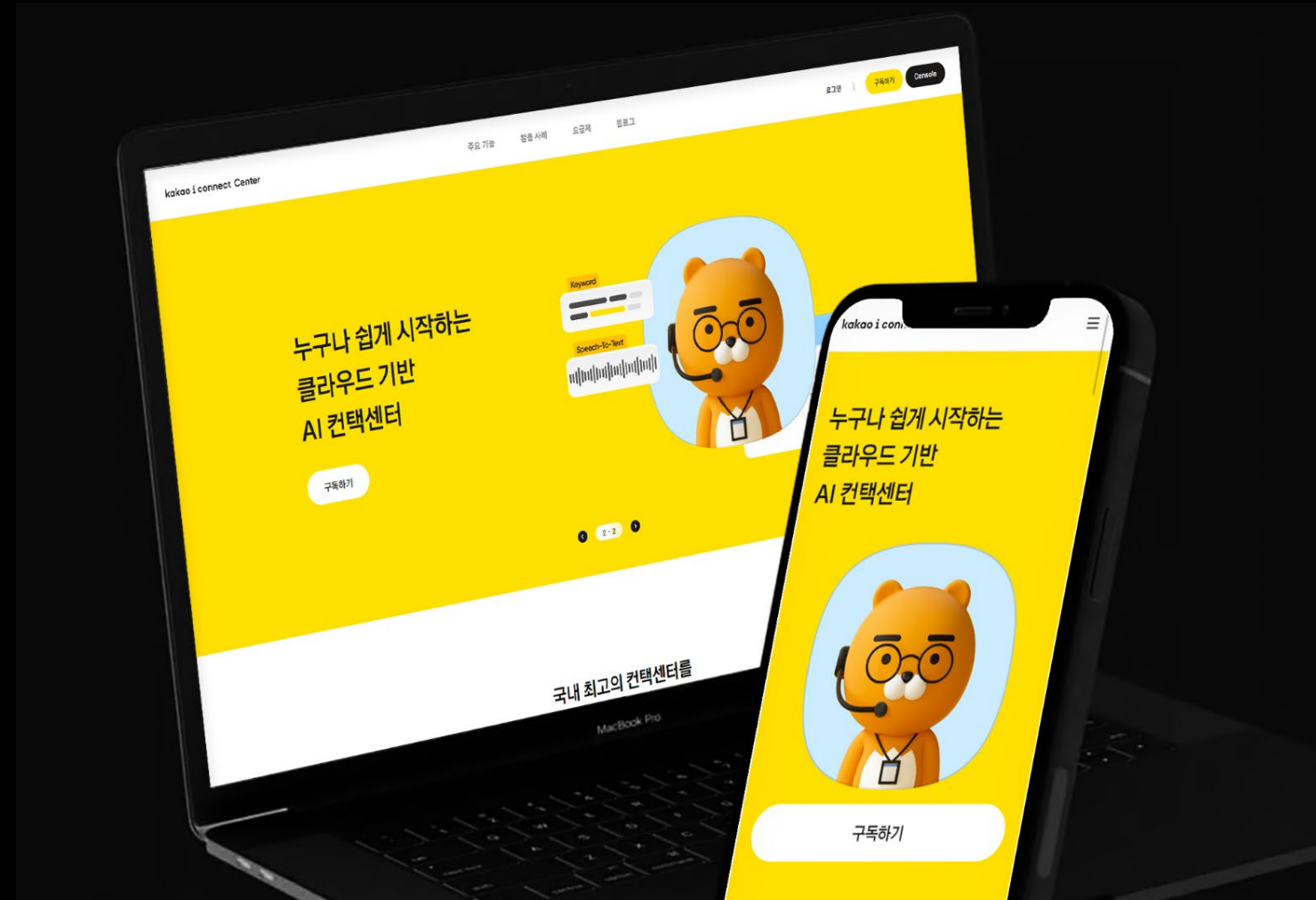
Period 2023.01–Present

Scope

Development / Architecture implementation

Technology Stack

AWS IoT Core, ECS, Java, PostgreSQL



Portfolio

Data Share

LG Electronics Data Share

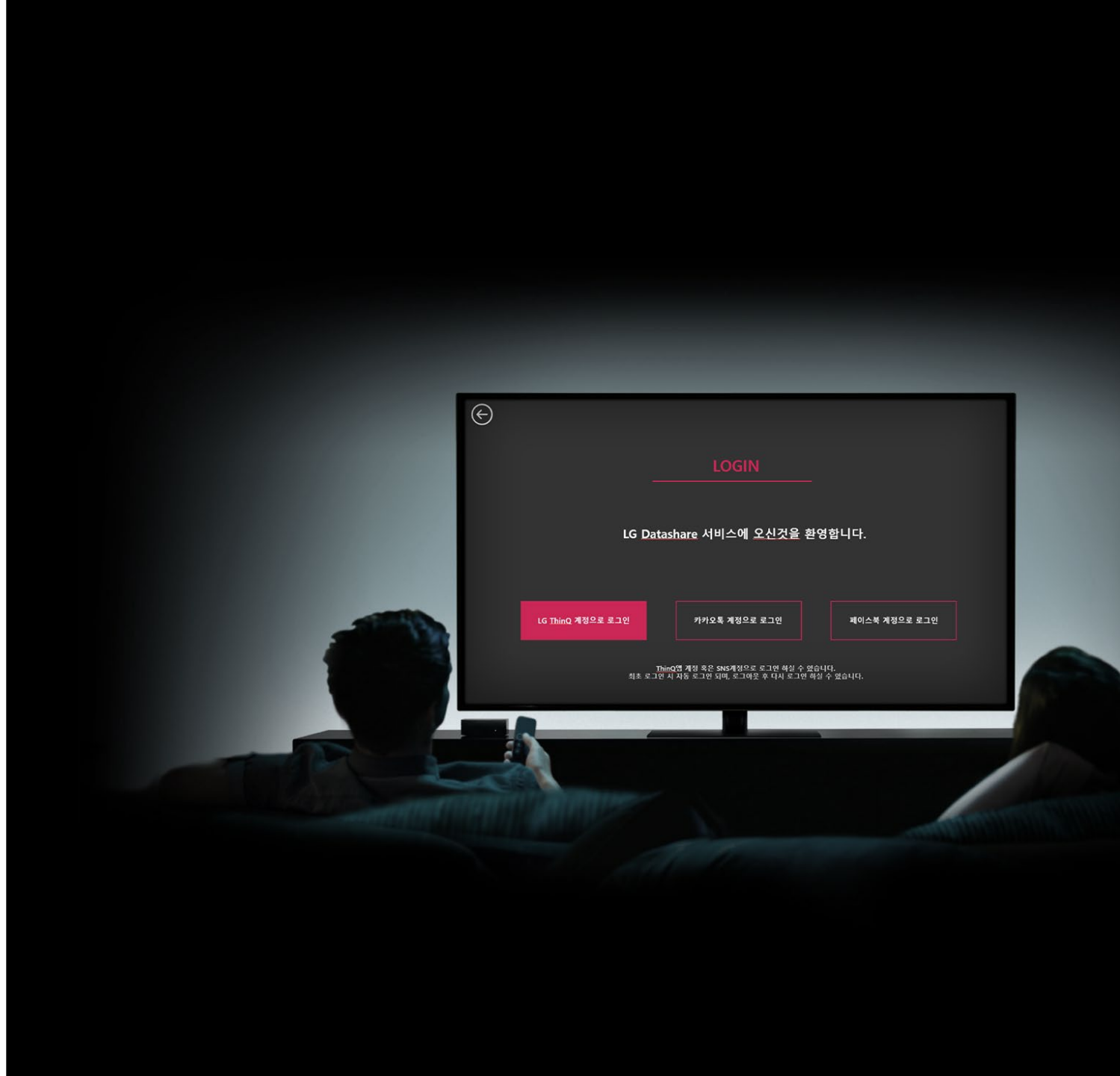
Using AWS IoT Core, we implemented Data Share functionality for data transfer between TVs. The infrastructure uses a serverless architecture based on IoT Core, API Gateway, Lambda, and DynamoDB. Authentication centers on AWS Cognito and supports social login. The system targets millions of TV devices, and the first PoC has been completed.

Client LG Electronics

Period 2022.05–Present

Scope
Development / Architecture implementation

Technology Stack
AWS IoT Core, Node.js, API Gateway, Lambda, DynamoDB, AWS Cognito



Portfolio

RaaS

LG Electronics RaaS implementation and maintenance

A one-click cloud provisioning and infrastructure-as-code management system that helps LG Electronics developers configure cloud environments easily. We built IaC and CI/CD environments aligned with the security requirements of one of Korea's largest enterprises, together with an administrator-friendly management portal.

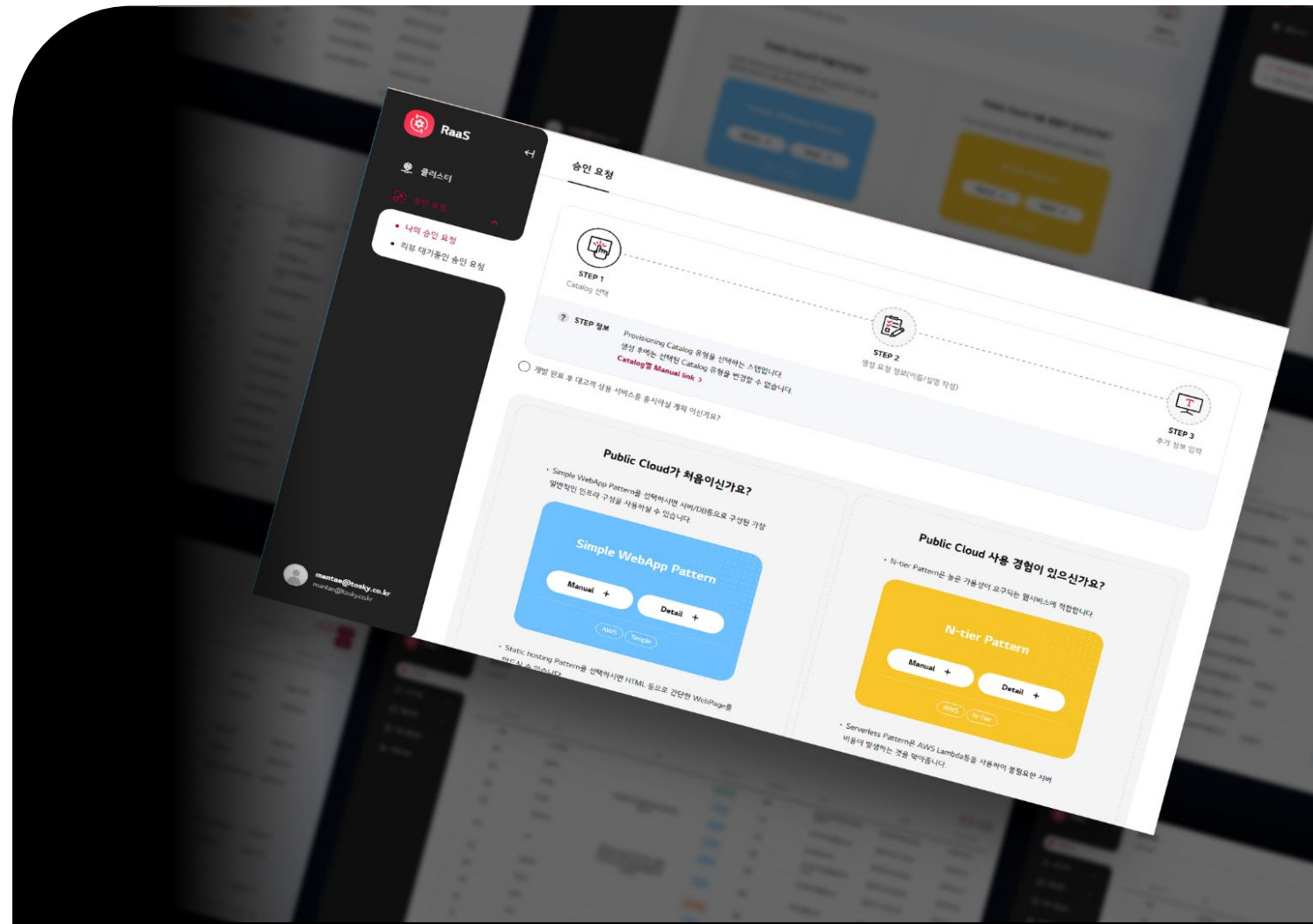
Client LG Electronics

Period 2022.05–Present

Scope
Development

Technology Stack

AWS EC2, Lambda, Serverless, S3, API Gateway, Terraform, JPA, Keycloak



Ozys Data

This log analytics system consolidates dynamically scaling Nginx server logs in the cloud and provides real-time centralized monitoring and alerts. CloudWatch monitors access logs, LogRotate converts formats, AWS CLI loads logs into S3, and Athena enables SQL-based searches across stored logs.

Scope

Development / Architecture implementation

The screenshot shows the AWS CloudWatch console interface. The sidebar on the left contains navigation links for Dashboards, Alarms, Logs, Metrics, and Events. The main content area is titled 'Log groups (66)' and includes a search bar. Below the search bar, there is a table listing log groups. The table has columns for Log group, Log class, Retention, Ingestion rate, and Action. The log groups listed are all named 'aws-logs-*region*-*account-id*-*log-group-name*'. The retention for all log groups is set to 'Standard'. The ingestion rate is listed as 'Lower engine'. The action for each log group is 'Configure'.

Portfolio

Samsung MAP system

Samsung Engineering MAP implementation

MAP (Maintenance Automation Platform) is a project-management and data-integration platform with user management, document configuration, and item management. It supports detailed project and process information, document template creation and editing, data transfer and synchronization, and project-item addition, deletion, and recovery.

Client Samsung Engineering

Period 2022.09–2023.03

Scope

Development / Architecture implementation

Technology Stack

AWS EC2, S3, CloudWatch, Athena



Portfolio

Starbucks Siren Order

Starbucks Siren Order application

Starbucks Siren Order was the world's first mobile ordering system in the food and beverage industry. Developed in Korea and later adopted by Starbucks headquarters in the United States, it became a foundational service for today's mobile food-ordering ecosystem.

Client Starbucks Korea

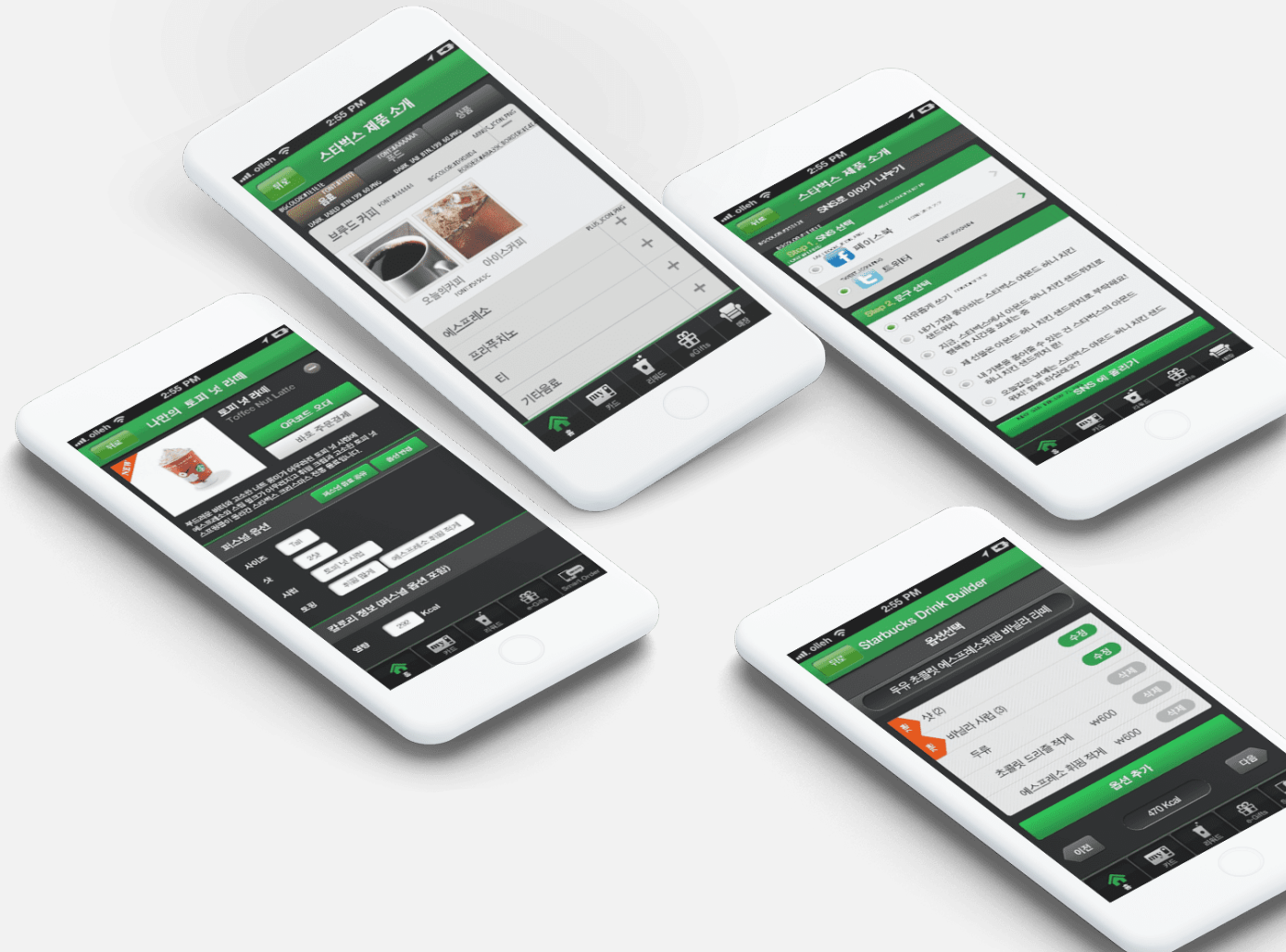
Period 2013.02–2014.04

Scope

Overall project leadership

Technology Stack

RESTful API Server (Spring), Android application (Java), iOS application (Objective-C)



Portfolio

Serverless System

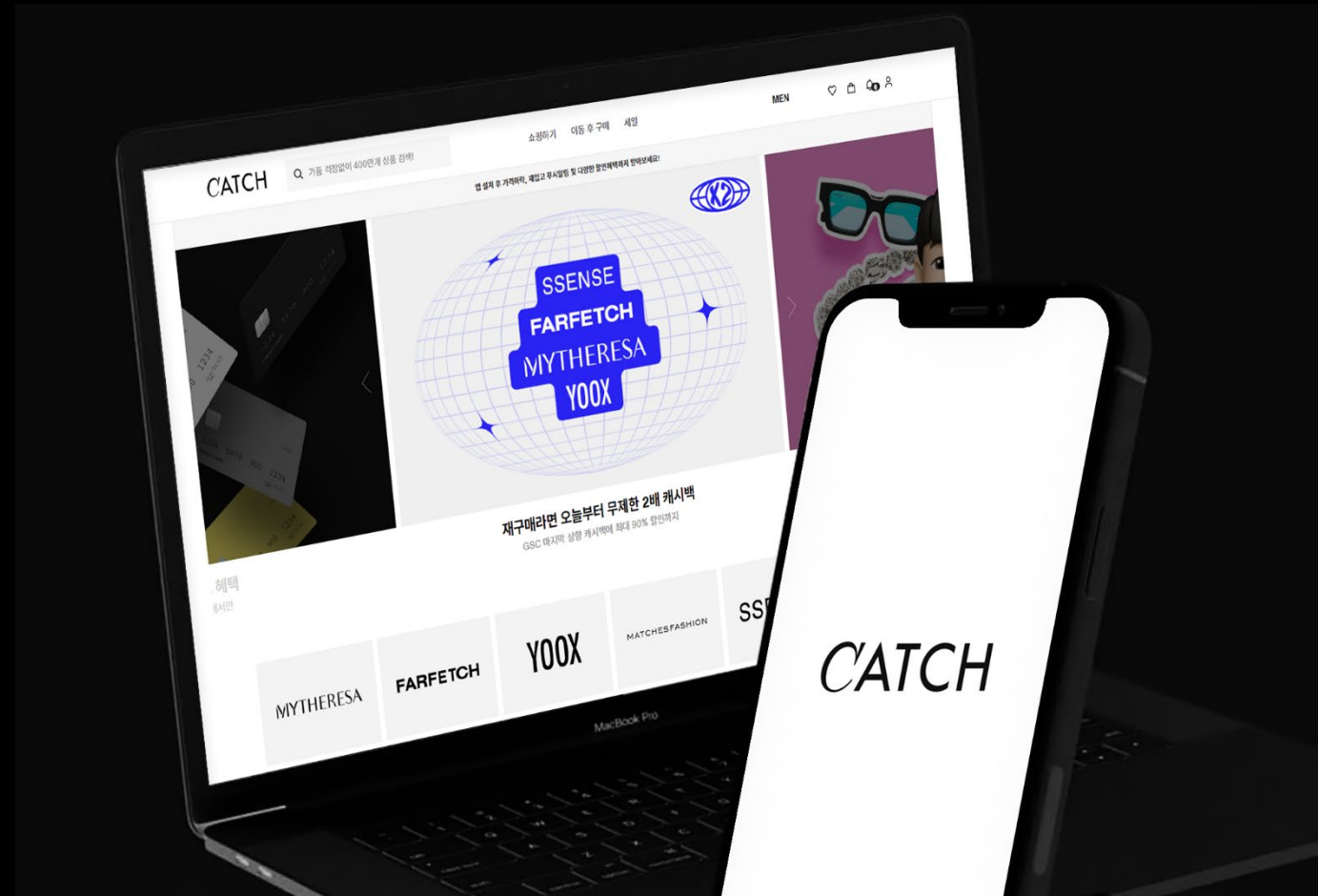
Catch Fashion serverless system maintenance

We maintained and expanded a website and crawling model built with the AWS Serverless Framework. The full-stack serverless architecture uses Lambda, API Gateway, DynamoDB, SQS, TypeScript, and other AWS services.

Client SC Comms Inc.
Period 2022.04–Present

Scope
Development / Architecture

Technology Stack
AWS, Lambda, Serverless Framework, DynamoDB, API Gateway,
and more



Portfolio

T-money Onda

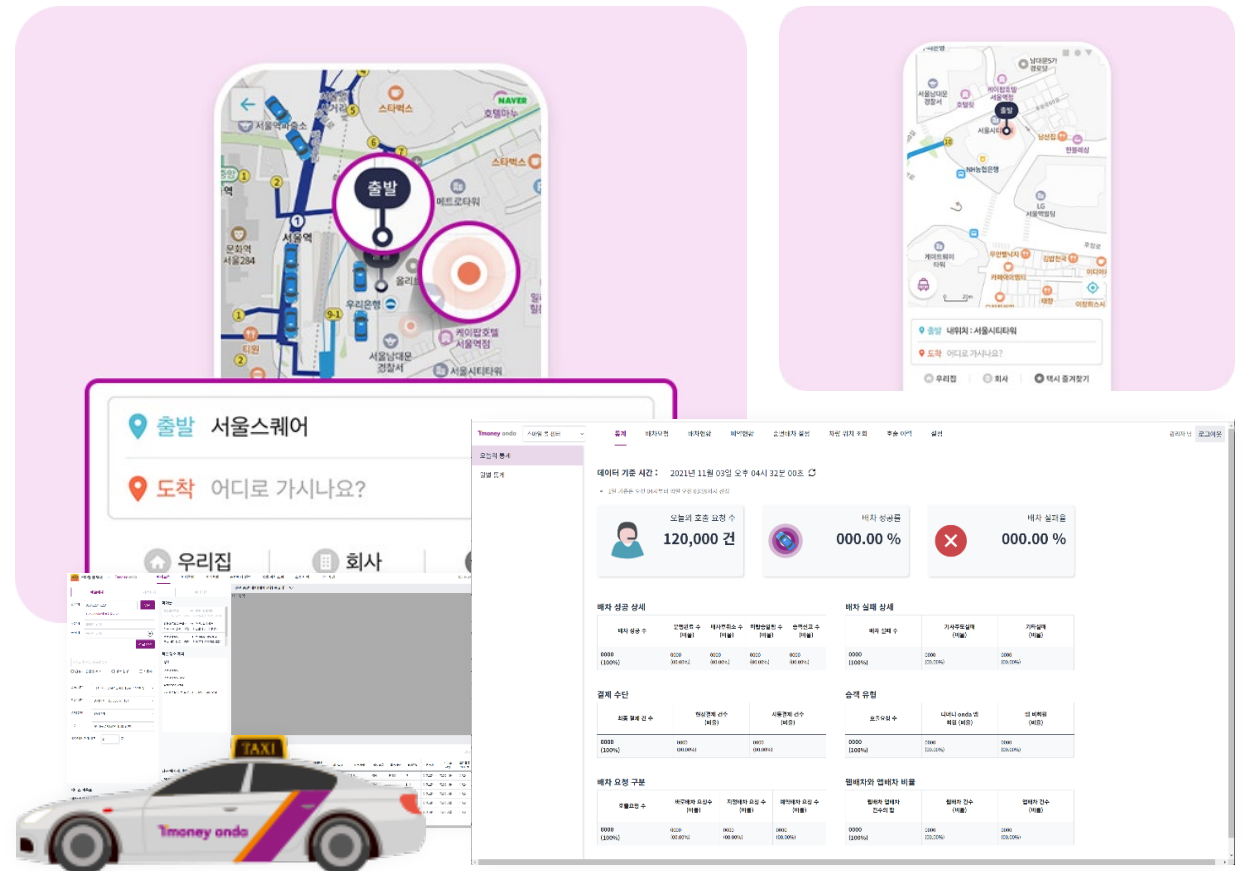
T-money Onda Call project

The T-money Onda Call project consists of a driver application, passenger application, and administrator control system. TOSKY implemented the workflow for receiving call-taxi requests through ARS, routing them through administrators, and assigning them flexibly to drivers for transport operations.

Client T-money Inc.
Period 2019.07-2020.10

Scope
Overall project leadership

Technology Stack
RESTful API Server (Spring), iOS application (Swift)



Portfolio

IOPE Reservation

On-site skin analysis reservation management system

This project developed a reservation system for skin analysis at the IOPE flagship store and laboratory. Similar to a cinema reservation flow, it includes booking, check-in, and check-out, with separate member and guest processes, no-show handling, and refunds.

Client Amorepacific Corp.

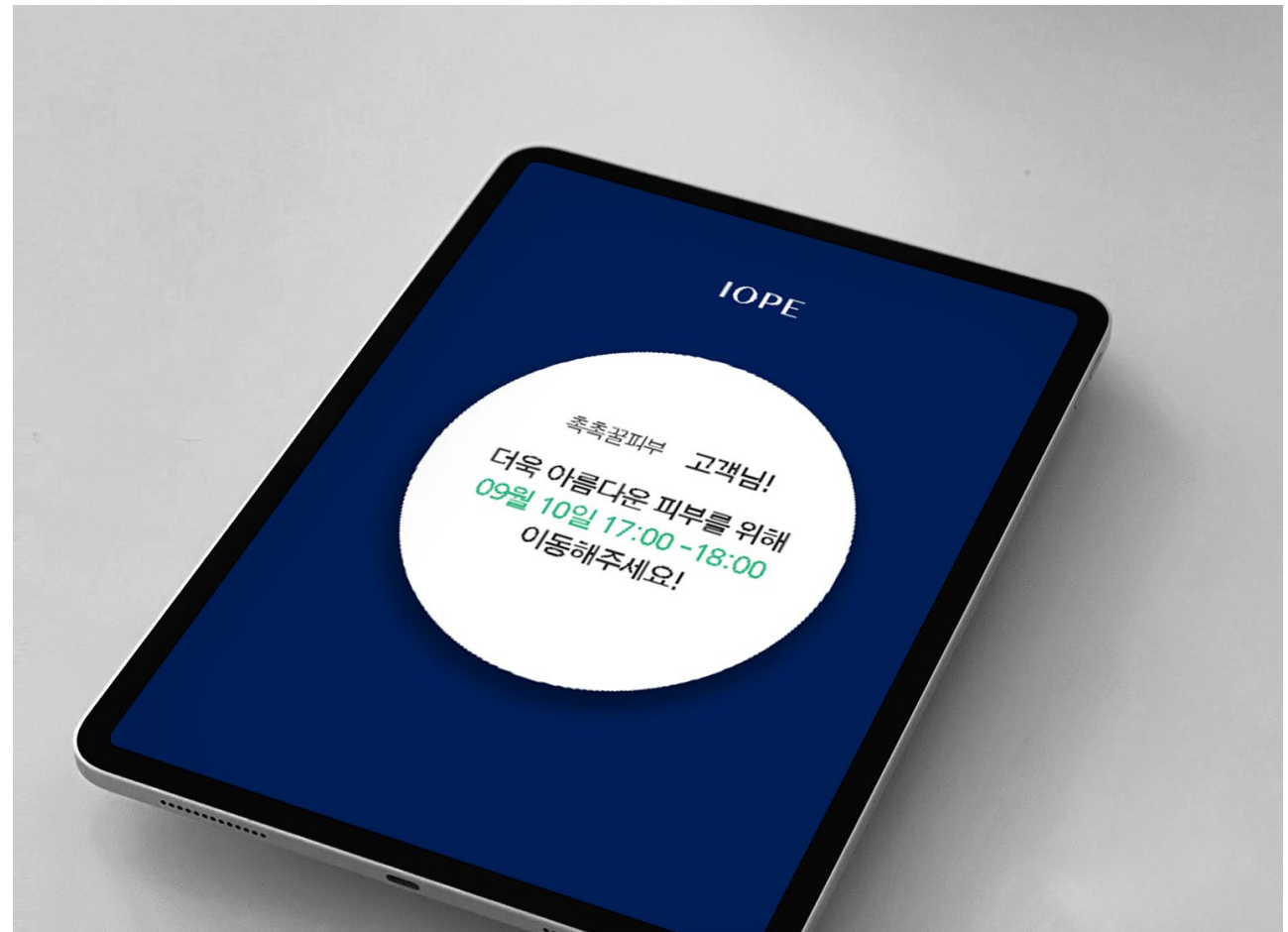
Period 2019.07-2020.10

Scope

Overall project leadership

Technology Stack

RESTful API Server (Spring), iOS application (Swift), IOPE brand web integration (Spring)



Portfolio

IOPE 3D Mask

Face-measurement-based 3D mask project

This IOPE flagship-store project provides differentiated skin-research services and personalized facial masks. Measurement results are sent to a 3D printer to create a mask sheet fitted precisely to the user's face, while six serums can be assigned by facial area for customized effects.

Client Amorepacific Corp.

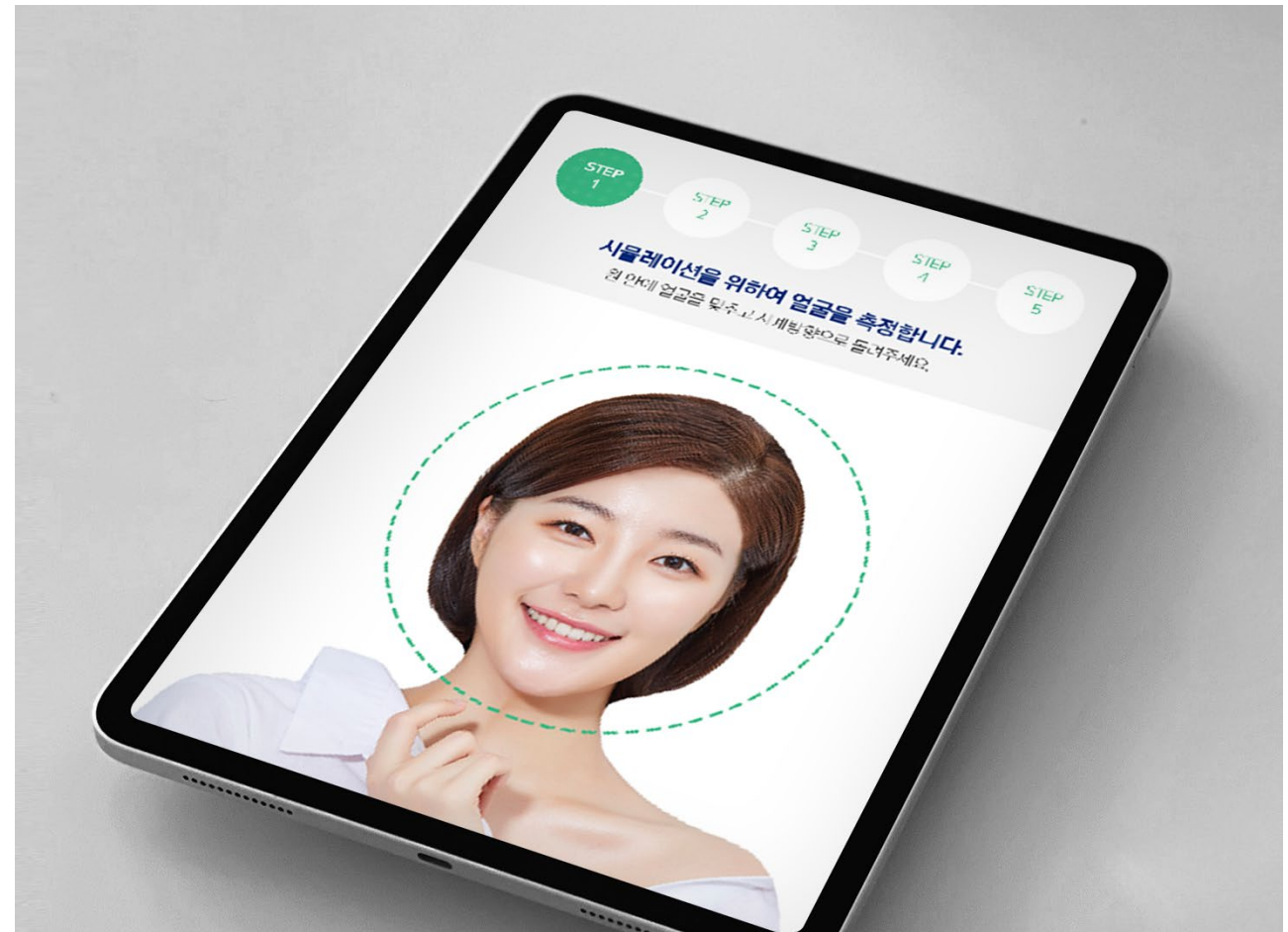
Period 2019.07-2020.10

Scope

Overall project leadership

Technology Stack

RESTful API Server (Spring), iOS application (Swift), IOPE brand web integration (Spring)



Portfolio

Seoul City Gas Marketing Control Center

Marketing control center application

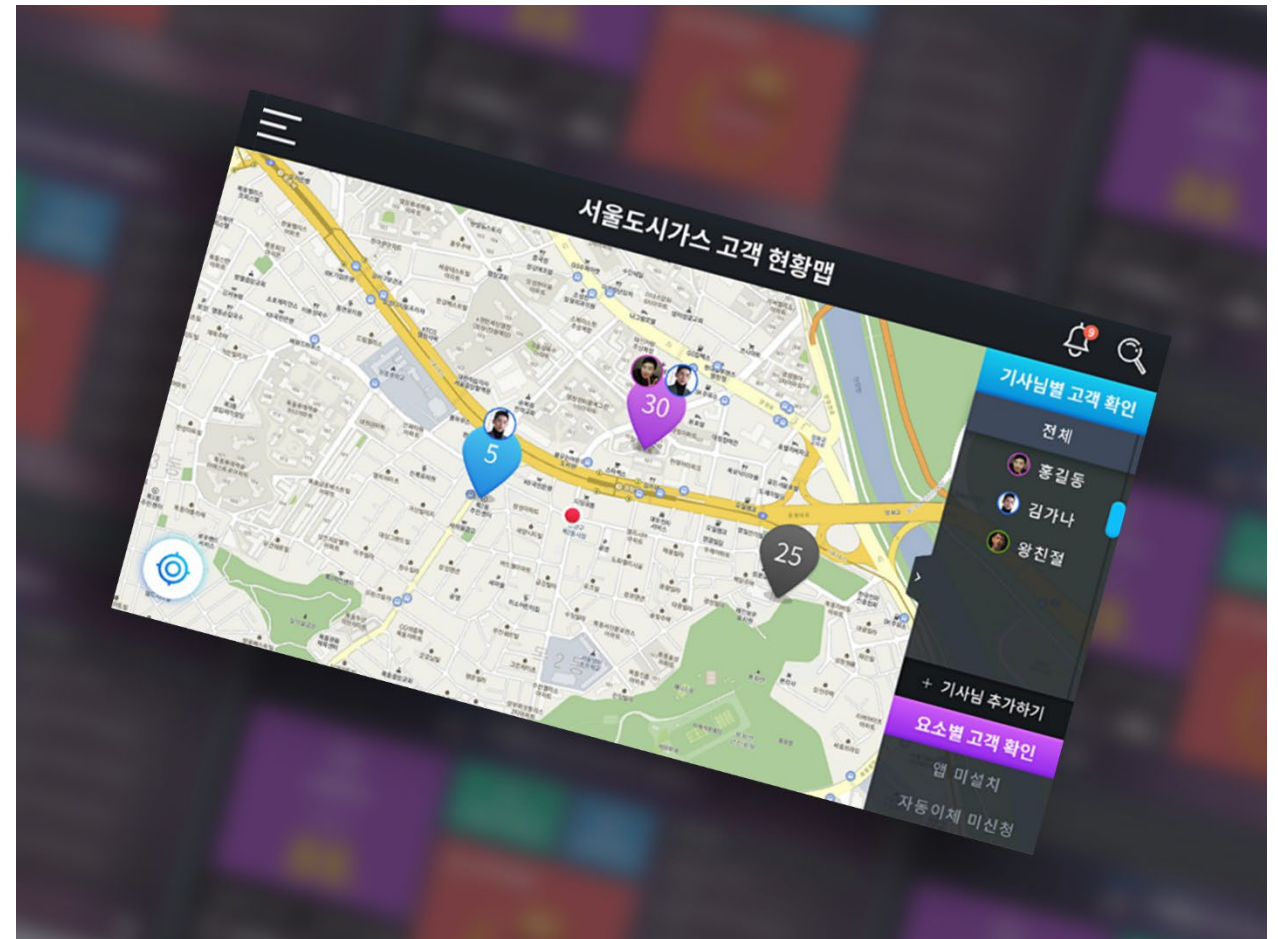
A monitoring application developed for the Seoul City Gas marketing control center, enabling operational visibility and centralized management across field marketing activities.

Client Seoul City Gas Group

Period 2018.01–2018.04

Scope
Overall project leadership

Technology Stack
RESTful API Server (Spring), Android application (Kotlin)



HAEM E-Tag Total Solution

We developed the software for electronic ink price tags that replace paper labels in supermarkets, convenience stores, and bookstores. The system controls more than 10,000 electronic tags at once and achieves approximately 0.1-second transmission time per tag.

Scope

Overall production leadership

VB (TCP/IP), Spring Boot web console, Java 11, MariaDB



Portfolio

Korea Foundation of Nuclear

Integrated information system for radiation workers

We completed a full renewal of the integrated information system for radiation workers. The system manages institution and worker data, exposure-dose reporting, role-based review and approval, and multi-step validation. Additional work included record issuance using a reporting tool, database security modules, and data-architecture design.

Client Korea Foundation of Nuclear
Safety
Period 2020.12~2021.08

Scope
Overall development leadership

Technology Stack
Korean e-Government Framework (eGov 3.9), Java 11 (Spring)



Portfolio

Dating App

Video dating app, SimkungTalk

We launched an in-house dating application in response to growing market demand. After evaluating multiple WebRTC open-source libraries, the service was implemented using RemoteMonster, with additional open-source components based on the SimkungTalk technical architecture.

Client TOSKY Inc.

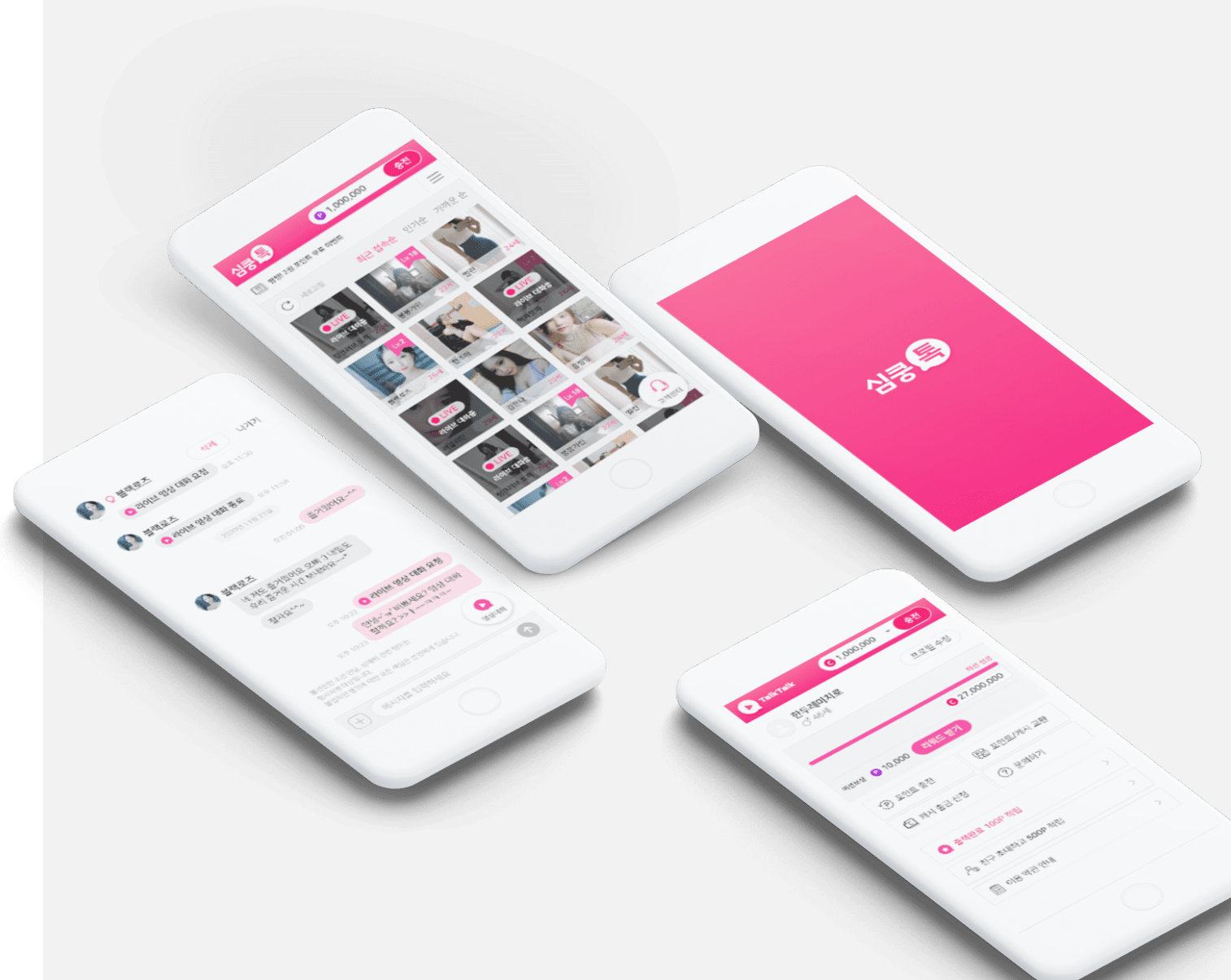
Period 2021.01–2022.01

Scope

Planning / Production / Deployment

Technology Stack

Java, TURN/STUN/ICE server, SIP



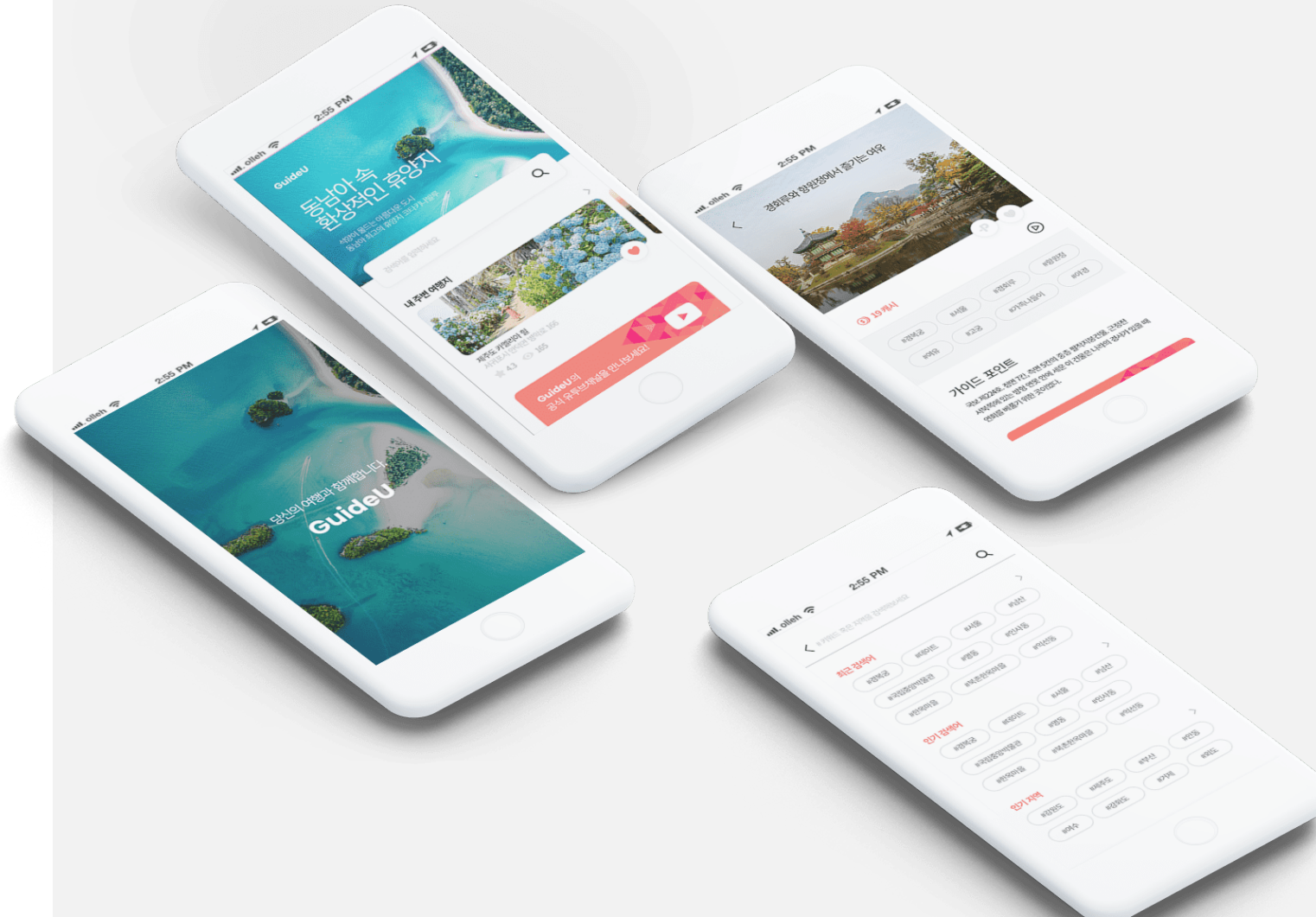
Portfolio

Guide U

Guide U Application

Period 2018

Scope
GUI / Application



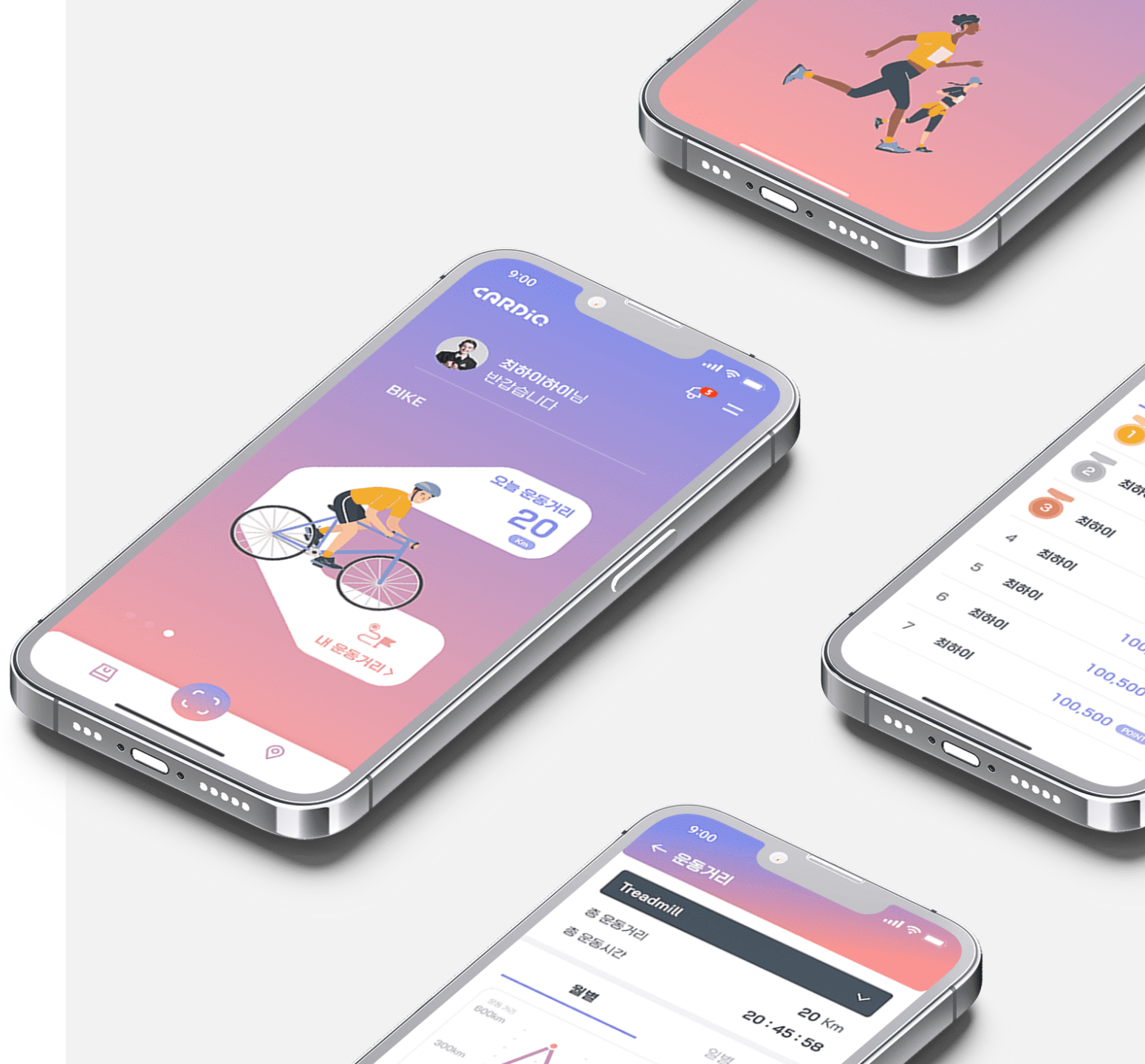
Portfolio

Cardio

Cardio Health

Period 2022

Scope
GUI / Application



Portfolio

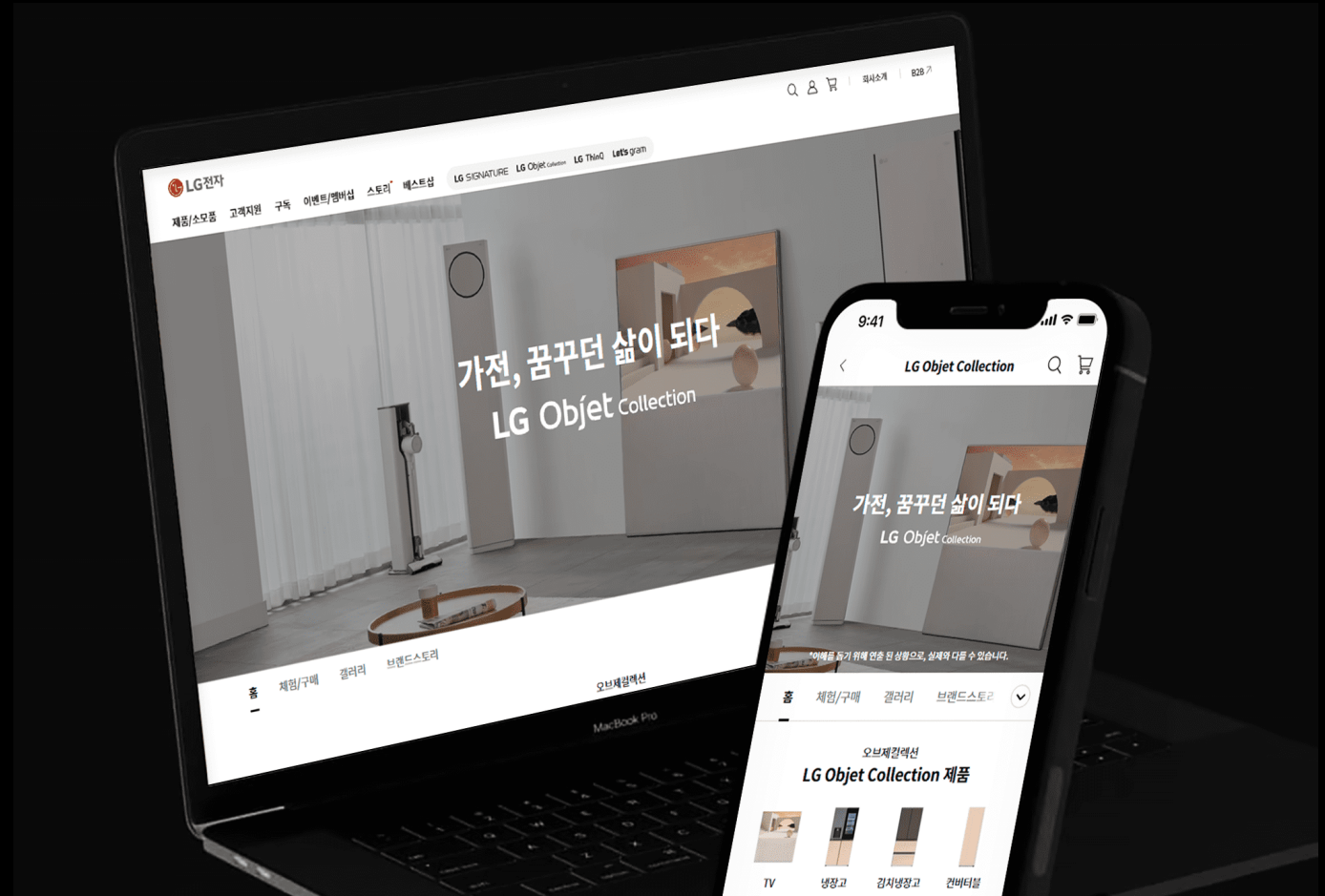
LG Objet Collection

LG Objet Collection

Period 2021

Scope

PC / Mobile Web



Portfolio

Real Buy

Real Buy

Period 2021

Scope

PC / Mobile Web



Portfolio

Kikirookie

Kikirookie

Period 2018

Scope
App GUI



Portfolio

CJ Viewing

CJ Viewing

Period 2018

Scope
App GUI



Portfolio

Cesar

Cesar

Period 2019

Scope
Promotion GUI / GUI Guide



Portfolio

Sulwhasoo

Sulwhasoo

Period 2019

Scope

DID / Screen GUI / GUI Guide



Portfolio

E nature

E Nature Natural Model Project

Period 2021

Scope

PC / Mobile Web



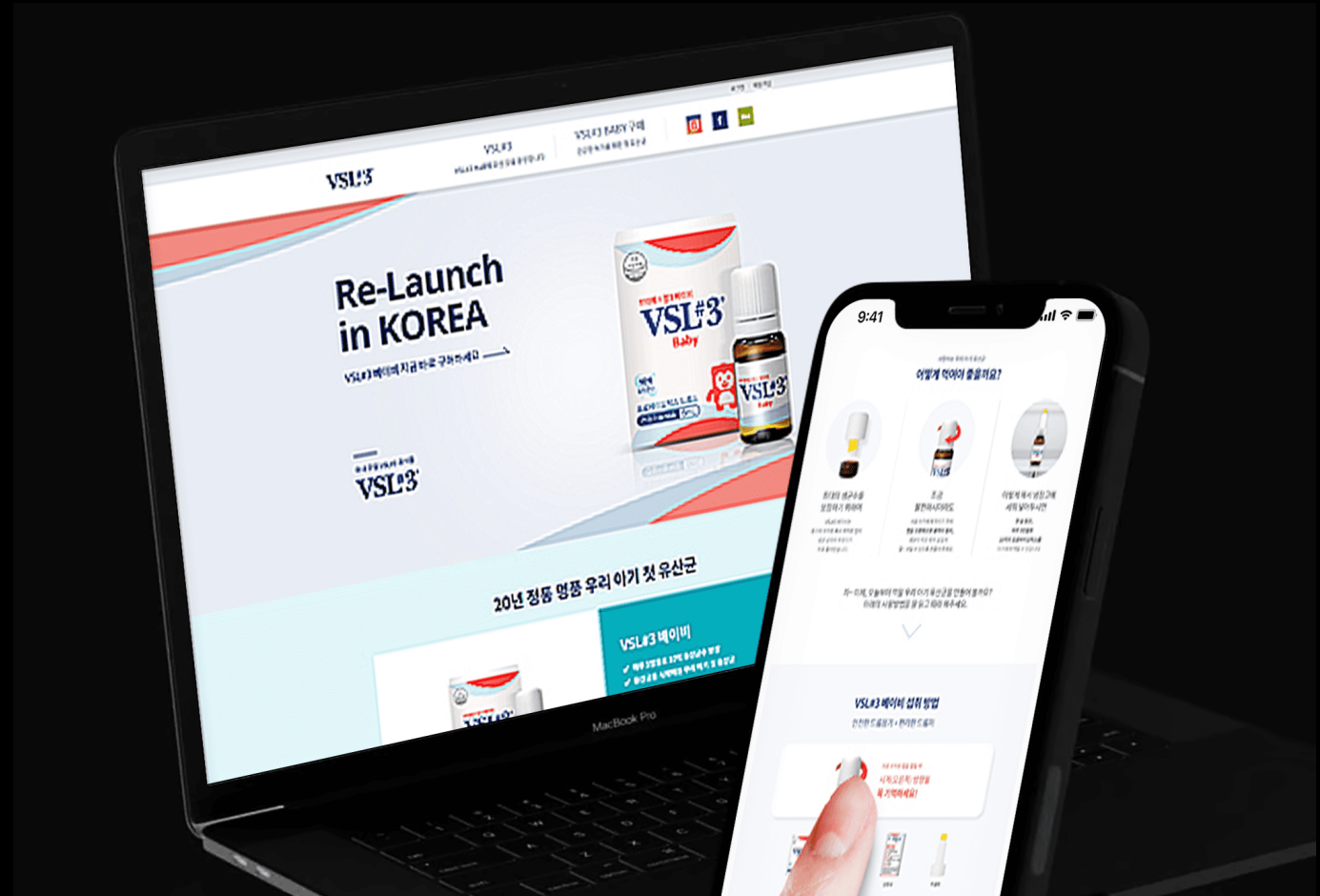
Portfolio

VSL

Health Supplement E-commerce

Period 2021

Scope
PC / Mobile Web



Portfolio

BS Capital

Mobile Branch

Period 2013.05

Scope
iPad Application

