minisoft
Company Brochure



minisoft

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minisoft Software Creating Group

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minisoft

We are an IT specialist that leverages our diverse experience and capabilities to provide top-notch IT services and solutions.

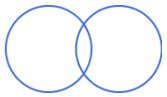
Reliability
Expertise
Know-How
New Technologies



- SI
- DO WELL X Solutions
- IoT
- Contactless Smart Kiosk
- Dashboard

Creative Together, Make new days

minisoft leads the present future of IT,
where we can together through constant communication and pursuits.



Partner in growth

We find opportunities for mutual growth,
driven by our pursuit of reliability and
win-win relationships with our customers.



Leader in innovation and pursuit

We lead South Korea's IT industry
based on the partnerships we build,
through constant pursuit and innovation.



A company with a better future

We create a future together
with our customers
through continuous communication.

Creative Thinking,
DO WELL creative working environment

Our goal is to become the best IT company that specializes in building creative work environments with innovation thinking.

Creative

Unafraid of taking on new challenges to make our customers and society more convenient at their life

Interactive

Working as a team to communicate with our customers, and build a company with a sense of ownership

Passionate

Passionately dedicated to achieve our purpose to provide the best differentiated service in the world

At minisoft, we communicate with our customers

in a creative and passionate way to build a positive future together.

We are committed to leading all IT-integrated businesses in Korea

based in our mission statement, Which is "Work more efficiently and effectively."

minisoft history

2013 - 2023 —

2023

Expanding the Smart city business

Became a contractor for government projects

- Selected by the Ministry of Trade, Industry and Energy as a joint R&D institute for an automotive industry technology development project (development of an autonomous delivery mobility and connectivity platform to accelerate digital transformation)

Consulting / Built a system

- Advanced development of a multimodal data collection system for Hanyang University
- Consultation for improving Nonghyup Asset Management Company AMS System
- Developed KLCSM's next-generation ship management system

Obtained certification

- Certified as a venture enterprise (innovative growth)

2022

Entering the Smart city business

Launched solutions and expanded the ICT business

- Launched ecoWaste, a construction waste processing management solution
- Launched AirAct, a contactless recognition smart kiosk
- Built a smart safety management platform for POSCO ICT

Obtained Intellectual property rights and certifications

- Registered patent for "Intermediate server and control method for one-to-many video transmission control"
- Registered patent for "DID device, DID system and control method of DID device"
- Certified as a talent-fostering company by SME

Consulting / Built a system / Chatbot

- Built a CFD system for Mirae Asset Securities
- Upgraded medical case management of the Korean Medical Association
- Developed a mobile app that sends self-esteem imbalance alerts, which can be synchronized with wearable devices (Industry-University Cooperation, Hanyang University)
- Developed a college admission chatbot service (Korea Military Academy)
- Developed a Farm 6 man (Drone control system)

Concluded partnerships

- Became member of the Smart City Convergence Alliance

Started preparing to enter the overseas market

- Selected as an Export Voucher Project Sponsorship Company

2021

Expanding the ABB business

Launched the smart city business

- Construction safety management system (Smart Safety)
- Built a drone-controlled platform city service

Built a smart system for medical businesses

- Upgraded the 64-bit smart system for Ajou University Hospital

Concluded partnerships

- Selected as an official agency of NAVER AiCall

Became a contractor for government projects

- Selected as a market-responsive R&D project (Ministry of SMEs and Startups)
- Selected for the Smart Service sponsorship project

Started preparing to enter the overseas market

- Supplied NeoDEEX to a Chinese company in Guangzhou (Indirect export)

Chatbot

- Developed an integrity chatbot service (Ministry of SMEs and Startups)
- Developed a chatbot service for consultation on civil complaints (Cheongju City Hall)

2020

Entering the ABB business

Concluded partnerships and became a member company

- Selected as an official agency of NAVER OCR
- Became a member of KORAIA (Korea Artificial Intelligence Association)

Began providing AI voice recognition services

- Developed and provided support for the NUGU AI voice recognition service for SK ONS

Entering the pharmaceutical CSV business

- Provided CSV consulting for Asia Stabilizers (Agilent Technologies Korea)

Consulting / Built a system / Chatbot

- Developed non-identification and authoring tool for the AI data set body cancer project(NIA)
- Developed an AI-based customized commercial area analysis information system for Suwon City Hall
- Developed a chatbot service for the Office of the Inspector-General at the Seoul Metropolitan Office of Education

Obtained certification

- Certified as an achievement-sharing enterprise

2019

Strengthening our DNA

Entered into the new renewable energy IoT business

- Developed a system for predicting and assessing the performance of new renewable energy for Korea Institute of Civil Engineering and Building Technology

Developed a digital humanities EKB

- Developed the Humanities Korea Plus Project HK+ Project Group DB (Hankuk University of Foreign Studies)

Consulting / Built a system / Chatbot

- Developed a chatbot service for the Medical Examination Center (Kangbuk Samsung Hospital)
- Developed a chatbot service for Seoul Dongbu District Office of Education
- Upgraded the ERP system of Korea Real Estate Investment and Trust
- Renewed the integrated membership app for 365mc
- Developed a renewed product management system for National Credit Union Federation of Korea
- Selected as a GC Biopharma EM partner

2018

Building our DNA

Signed an agreement with a group of AI specialists

- Selected as an official agency of Kakao business (Chatbot builder)
- Selected as a NAVER chatbot competency partner

SK ONS

- Developed a voice recognition-based work system

Chatbot

- Developed a multi-language customer service chatbot service for "bitbox," a cryptocurrency exchange
- Developed a chatbot service for Hyundai Heavy Industries

2017

Increased Competitive advantage

Company-affiliated research lab received certification

Signed an agreement for an industry-university linked tailored internship program

Registered as a Microsoft ISV partner

- Solution "CCMS:Chatbot Builder"

Developed the first-ever chatbot service for an airline in Korea

- Asiana Airlines

LOD Projects

- Conducted the Korean Modern Ethnic Religion Culture project commissioned by Institute of Religious Studies at Wonkwang University

2016

Diversified Business portfolio

Established a company-affiliated research lab

Began taking on development projects in the public sector

- Standardized the web/mobile services of Korea Securities Depository
- Indonesia NFS development project
- Developed groupware for Korea Real Estate Investment and Trust

Began working with more customers in the finance and insurance sector

- Korean Fire Protection Association
- Heungkukfire

2015

Diversified customers

Agricultural Cooperative Asset Management

- Developed a Mobile Hybrid

Samsung Heavy Industries

- Developed a Activity system

Mirae Asset Securities

- Developed an integrated over-the-counter derivatives system

Hyundai Kia Motor Group

- .NET Framework Consulting

2014

Increased competence

Certified as a Venture enterprise and increased capital

SK hynix

- Built a smart academy

.NET Framework technical support

- POSCO Engineering

2013

Established a company

minisoft Co., Ltd. Established

Registered as an eBay development partner

Expanded business categories, including e-commerce

Samsung Electronics

- Smart TV Azure consulting

SK ONS

- Built a work management system

.NET Framework technical support

- Hyundai Heavy Industries

minisoft

CEO	Yunbok Lee	
Establishment year	24 July 2013	
Business registration number	107 - 87 - 98693	
Corporate registration number	110111 - 5175313	
Contact list	Tel.	02-6959-2559
	Fax.	070-7603-1444
	E-mail.	sales@minisoft.co.kr
Location	(06585) 210, Bangbae-ro, Seocho-gu, Seoul (Floors 2 and 3)	
Main business	Consulting / Software Development / E-commerce / Database construction, etc.	
Main product	**Construction waste management solution "ecoWaste"** **AI Chatbot Builder "minibot"** **Interactive online learning platform "onClass"** **Contactless smart management system "AirAct"** **.NET Framework "NeoDEEX"** **Source code transformation "Code Changer"** **Work management and collaboration solution "SoliWORKS"** **Centralized documentation and corporate document security solution "SoliDOCS"**	

Microsoft Partner kakao business NAVER CLOUD PLATFORM Venture Enterprise 벤처확인기업 스마트시티 융합얼라이언스 한국인공지능협회 Korea Artificial Intelligence Association

주요 연혁

2023	- Selected as a joint R&D institute for an automotive industry technology development project (MOTIE) - Certified as a venture enterprise (innovative growth)
2022	- Launched solutions to expand the smart city business (ecoWaste, AirAct) - Registered patent for "Intermediate server and control method for one-to-many video transmission control" - Selected as a talent-fostering company by SME - Registered patent for "DID device, DID system and control method of DID device." - Selected as an export support utilization project (Ministry of SMEs and Startups) - Selected as a member of Smart City Convergence Alliance
2021	- Selected as a Smart Service sponsorship and R&D project (Ministry of SMEs and Startups) - Selected as a NAVER AiCall competency partner
2020	- Certified as an achievement-sharing enterprise, Became a member of Korea Artificial Intelligence Association - Selected as a NAVER OCR competency partner
2019	- Launched the NUGU voice recognition implementation service
2018	- Selected as an official agency of Kakao business (Chatbot builder) - Selected as a NAVER chatbot competency partner
2017	- Corporate research institute received certification, Selected as a Microsoft ISV partner
2013	- minisoft Co., Ltd. Established


CEO
Research Headquarters
Support Headquarters
Tech Headquarters
Research Team 1
Research Team 2
Research Team 3
Strategic Planning Team
External Business Team
Management Support Team
Design Team
Tech Team 1
Tech Team 2
Tech Team 3

Customers and Partners

Government organization and universities

서울특별시교육청 · 수원시 · NIA 한국정보화진흥원 · 한국외국어대학교 · 원광대학교 · 한양대학교

Medical industry

아주대학교병원 · 강북삼성병원 · GC녹십자EM · Agilent Technologies · 365mc · KMA 대한의사협회

General companies

SK hynix · HYUNDAI · 현대중공업 · LG화학 · 삼성전자 · SK telecom · KSD 한국예탁결제원 · 한국토지신탁
MIRAE ASSET 미래에셋증권 · Heungkuk Fire & Marine Insurance · 농협자산관리회사 · posco e&c 포스코건설 · Microsoft · HYUNDAI AutoEver · ASIANA AIRLINES · posco 포스코ICT
삼성중공업 · SK C&C · KIA · SK ons · hp · 화재보험협회 · LINE · Hanwha TOTAL
한진정보통신 · kyungshin · SUNGSHIN 성신양회주식회사 · KG Logis · SK 실트론

Partners

Microsoft Partner
MS ISV Partner

kakao business
Kakao Chatbot partner

NAVER CLOUD PLATFORM
NAVER Business partner

Venture Enterprise 벤처확인기업
Certificated as a Venture Enterprise

스마트시티 융합얼라이언스
Member of Smart City Convergence Alliance

한국인공지능협회 Korea Artificial Intelligence Association
Member of Korea Artificial Intelligence Association

minisoft

Business Areas



SI

- System Integration
- Platforms
- Consulting
- Business Solutions

DO WELL X

- DO WELL X
- DO WELL ecoWaste
- DO WELL minibot
- DO WELL onClass
- DO WELL SoliWORKS
- DO WELL SoliDOCS

ABB

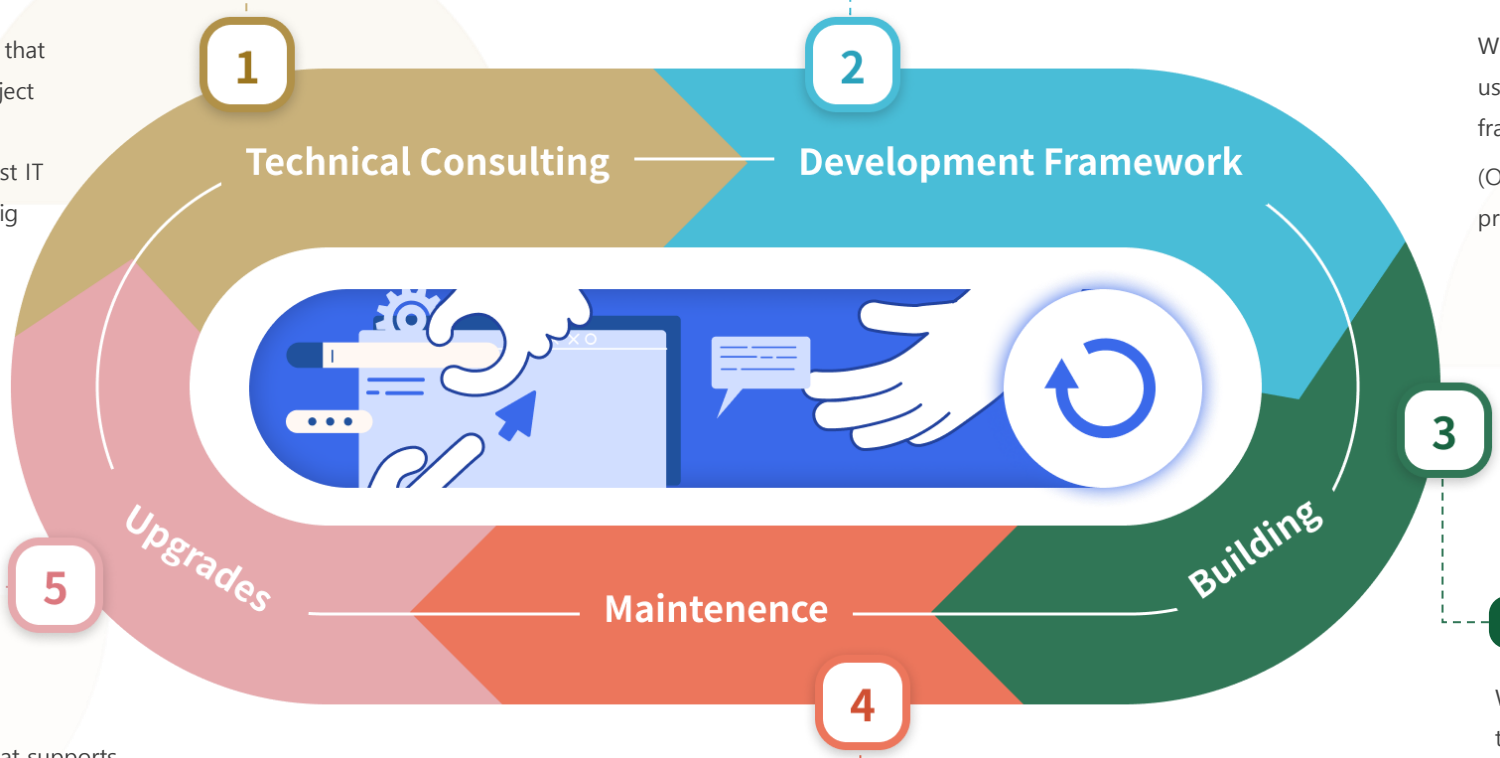
- Internet of Things
- Smart Kiosk
- Dashboard
- Linked Open Data

Innovation Practices

- Intelligent Work System
- Upgraded Framework to 64-Bit
- Contactless Smart Management System
- Drone Control System
- College Admissions Chatbot Service

1. Technical consulting

Based on the standardized processes that we have established through our project portfolio, we provide a professional consulting service that integrates latest IT technologies, including AI, IoT, and big data.



2. Development Framework

We provide the best possible solution using a variety of development frameworks optimized for SI.

(Optimal framework solutions NeoDEEX provided)

3. Building

We build a best-of-breed system through systematic project management that takes into account the verified CBD methodology, from requirement analysis, such as business and user/administrator attributes, to launch phase.

4. Maintenance

We present new guidelines according to the needs of our customers, or identify issues to design a suitable roadmap for upgrades to ensure a high level of productivity and accuracy.

5. Upgrades

We offer professional maintenance that supports optimal, failure-free operation of the existing system through pre-inspections.

minisoft provides the best and easiest-to-maintain system

that meets the needs and goals of our customers based on years of expertise.

Web APP	Web application	We develop user-based development platforms as well as web applications optimized for businesses with guaranteed web accessibility, compatibility, and security.
Windows APP	Windows application	We develop desktop Windows applications that take into account the purpose of use and user environments.
Mobile APP	Mobile application	We develop meticulously and systematically designed optimal mobile systems with a focus on user experience (UX), such as Android and iOS, native apps, hybrid apps, and web views.

Web Application

A web application program that realizes front-end and back-end services regardless of the platform, developed on the strength of our years of experience in work systems development. The front end was created with ASP.NET MVC, Vue.js, React, etc., and the back end was created with .NET Framework and Spring Framework, or a Web API service based on Sprint Boot



Features

- HTML5 web standard
- Separation of menu data structure and the work UI area
- Establishment of reactive/adaptive web

Reference

Construction/Service

GC녹십자EM 한국토지신탁 posco 포스코이앤씨 Farm6+

Windows Application

A Windows application based on the .NET Framework, building an enterprise-level system that enhances productivity in development, performance, and safety, proven through years of successful implementation in large-scale environments

Authentication and authorization

- Authentication and authorization control
- Standard schema based on frameworks
- Authentication for service calls

Distribution and services

- Version management, automatic updates
- Support for RestFul / WCF Web API
- Simplification of service confiquration and calls

Establishment of development framework

- Standard guide
- NeoDEEX training and sample
- Establishment of development framework and consultations

Features

- A framework that supports both Windows Forms and WPF
- Improving development productivity
- Enhancing application quality
- Reducing development time

Reference

Hospital/Finance

GC 녹십자의료재단 · 아주대학교병원 Ajou University Hospital · MIRAE ASSET 미래에셋증권

Network/Construction/Car/Shipbuilding

kyungshin · SK ons · SK 실트론 · posco 포스코이앤씨 · LG화학 · 현대중공업 · SAMSUNG 삼성중공업

Mobile Application

A hybrid platform developed based on years of building Android/iOS work systems that supports
a rich native access interface and a web-based screen development platform with excellent maintainability
designed to increase work efficiency through standardization and provide information for prompt work processing

Integrated authentication system

- PC, mobile integrated authentication system
- OAuth 2.0
- Integrated authentication system using biometric authentication for enhanced security

App Store available for deployment by operator

- Version management, automatic updates
- Can be installed simultaneously with app registration when the IT operator manages the app store
- Work support through rapid deployment, automatic version management and updates

Watch (Developed Galaxy Watch app)

- Sensor data collected and stored in the cloud
- Push alerts of work details
- Data linked between mobile apps
- Development environment : Tizen, Xamarin

Key features of voice recognition

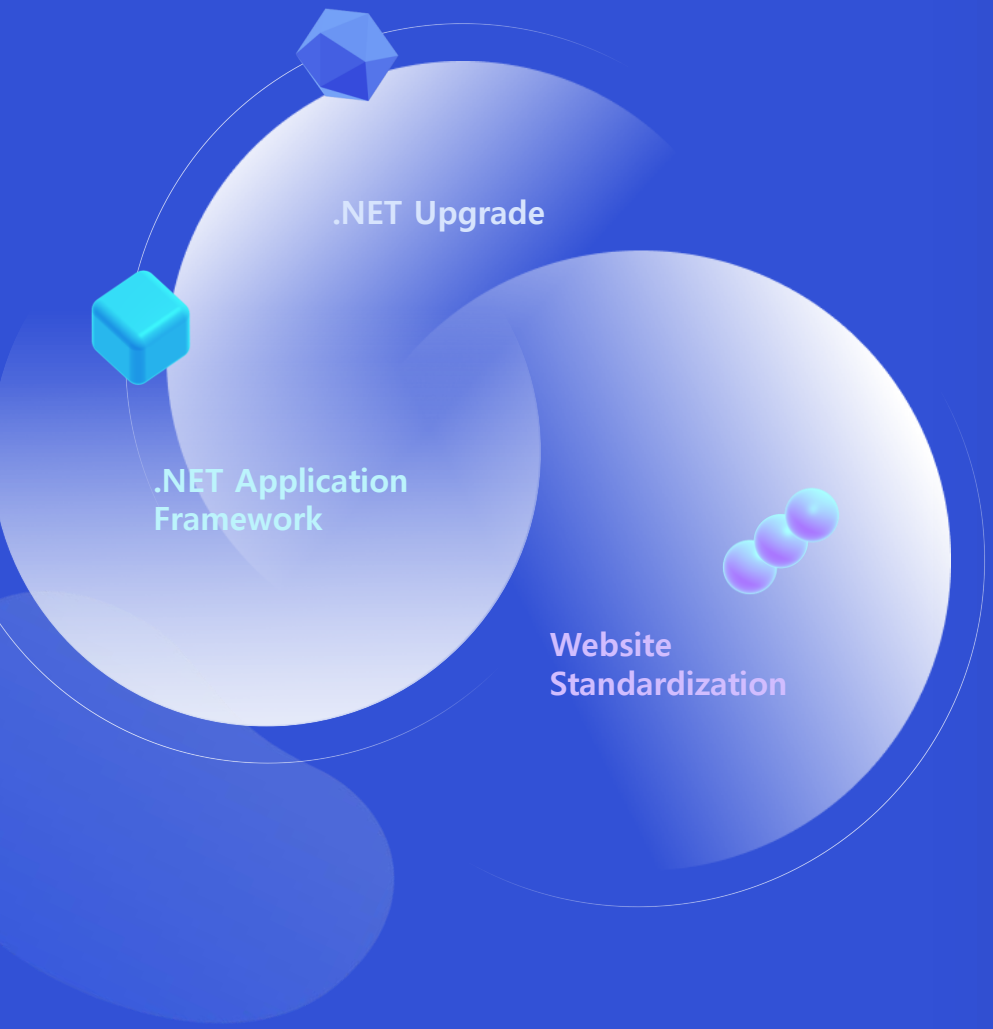
- AI and big data based intelligence system
- Work screens controllable with voice commands in environments where users cannot use their hands (driving, etc.)
- Linked with Google, NUGU platform
- Supports voice operation
- Hot-words can be designated depending on the operation model

Reference

AI/Voice recognition: NUGU

Hospital/Finance: 365mc, 농협자산관리회사

Network/Software: SK ons, INNO



.NET Upgrade Consulting

- **Diagnosis service** — Identifies the components of the existing application and its issues
- **Pilot service** — Suggests upgrade guidelines based on pilot results
- **Upgrade service** — Upgrade to a flexible and stable .NET system
- **UX and Mobile** — Built according to the latest UX and mobile environment

.NET Application Framework Consulting

- NET application framework consulting optimized for SI
- Development framework consulting based on Web/Windows
- Consulting based on WPF/WinForm and dashboard design
- Development guide and developer training for framework application

Website Standards Consulting

- **Development standard service** — Provide a guideline in the design, implementation, operation, and disposal stages of website development
- **Web style service** — Provide a guideline that meets the latest design display technologies
- **Publishing guide** — Provide an HTML guideline that complies with web standards and web accessibility requirements

.NET Upgrade Consulting

01. Diagnosis service

Identify the architecture composition and problems with the existing application and suggest a guideline for an upgrade

02. Pilot service

Present an upgrade guideline following a pilot result to assess any potential risks that could arise in the event of an upgrade in advance

03. Upgrade service

The goal is to upgrade the existing application into a more flexible and stable .NET system for increased productivity and accuracy

04. UX & Mobile service

Develop an existing or new application to meet the needs of the latest UX and mobile environments

Diagnosis consulting (2 months)

1 Identifying the scope of upgrade

- Number of areas that need conversion
- Scope and direction of UI upgrade
- Identify whether functions need to be improved

2 Designating system/scope for pilot upgrade

- Designating system/scope by type
- Taking into consideration the pilot upgrade deadline (e.g., source by type)

3 Source type analysis/manual task upgrade

- .NET 3.5 → More than 5.x
- Change the enterprise library
- Third-Party changer
- Convert manual tasks

4 Calculating man-hours and schedule

- Calculate the scope of work per person/day
- Establish a roadmap for test schedule/method

5 Code Changer

- Create conversion modules for each area of change by type

6 Source conversion

- Source conversion using code changer

7 Supplementation of manual tasks

- Arrange any supplementations by type and reflect them in the code changer
- Compile cases that need manual supplementation

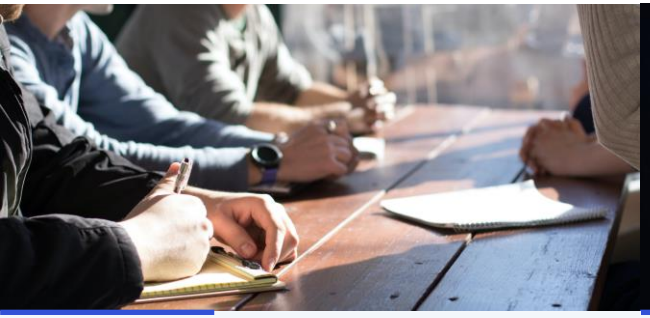
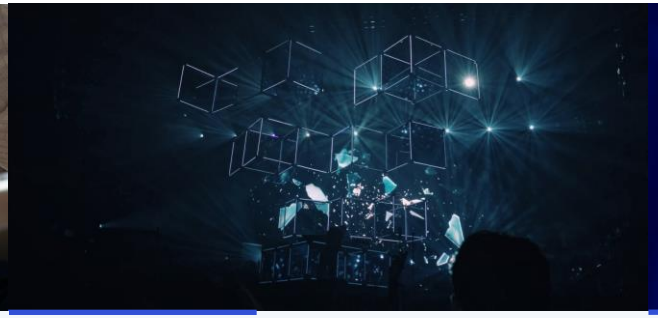
8 Test

- Tested on .NET 5.x version or higher

Upgrade project

.NET Application Framework Consulting

Providing SI-optimized .NET application framework consultations, and Web/Windows/WPF development framework consultations



Training

Development guide and developer training for framework application

- Development framework training
- Development guide provided
- Development template provided

Web App'

- ASP.NET MVC, Vue.js Application Framework
- Based on WEB API (JSON)
- Multi-tier Layer

Windows App'

- Windows Application Architecture
- Web Service security, authentication, privileges
- Auto Updater

WPF

WPF development consulting & Dashboard implementation

- WPF Application consulting and implementation
- Dashboard implementation

Website Standards Consulting

Provides standards to prepare for the increase in web services by establishing a technical foundation that meets the needs of the changing user environment by complying with HTML web standards and enacting standards that can meet the government's HTML5 standard expansion and compliance policy

Development standard guide

A guideline for the design, implementation, operation, and disposal stages of website development in response to the "website management plan" related to the total amount system revised in March 2021

Guide overview
- purpose, scope of application, overall composition

Website management guideline
- principles, pay-as-you-go operation plan

Website planning
- Clear purpose, scalability, web compatibility, web accessibility, security principles, system considerations, relevant laws

Website implementation
- activities to be performed, applying common components, web compatibility, applying web accessibility, applying personal information protection technologies, applying security development technologies, applying web styles

Website operation
- website integration, operation and maintenance, website diagnosis

Website disposal
- disposal plan, executing disposal, results and reporting

Web style guide

Takes into account the latest design display technologies such as Font Awesome to improve design ideas and icon performance in line with current trends

Web style guide overview and purpose

Design concept

Web CI and production criteria
- CI usage guidelines

Basic guide
- colors, fonts, icons, buttons, forms, tabs, etc.

Visual guide

UI layout guide
- Main, sub, header, contents area, etc.

In-house font icon development guide

Publishing guide

An HTML guideline that complies with web standards and web accessibility requirements for publishing

Overview

Purpose, supported browsers, subjects

HTML guide
- basic policy and basic structure, Doctype declaration, language properties, encoding declaration, CSS and includes, naming rules, code writing rules

CSS guide
- CSS declaration method, @Import usage regulation, character set designation, naming rules, order of CSS properties, alignment (blanks and empty lines), comments, search optimization

Image guide
- basic policy, image storage format regulations, image quality management, image processing regulations other than photos

NeoDEEX

Framework-optimized solution acclaimed by leading companies

NeoDEEX-based applications guarantee a certain level of performance, which can be easily monitored and tracked, making fine-tuning easy.

Code Changer

.NET-based automatic source code change solution for large systems

Code Changer is the only solution in Korea that analyzes the basic source code when a code change occurs and changes the subject of change to a new source code.

NeoDEEX

NeoDEEX is the first commercial framework in Korea that includes modules for .NET application development, and NeoDEEX 4.X has a range of features that have been reinforced to improve development productivity as well as application safety and performance.

Overview of key elements, benefits and function

Abundant class library | Reduced time | Improved development productivity | Enhanced quality | Reduced cost | Item template | Project template | Code changer

Functions

- Fox Configuration
- Fox Logging
- Fox Data Access
- Fox DB Profile
- Fox Query
- Fox SQL Paste Add-in
- Fox Transaction
- Fox Performance TraceFox
- Performance Monitor
- Fox Web Service
- Fox UI Model
- Fox WinForms
- Fox WPF
- Fox S&P
- Technical Support

Reference

Medical: 아주대학교병원 Ajou University Hospital, GC녹십자의료재단

Construction: GC녹십자EM, posco 포스코이앤씨

Shipbuilding: 현대중공업, SAMSUNG 삼성중공업

Manufacturing: kyungshin

Car/Financial: HYUNDAI, MIRAE ASSET 미래에셋증권

Code Changer

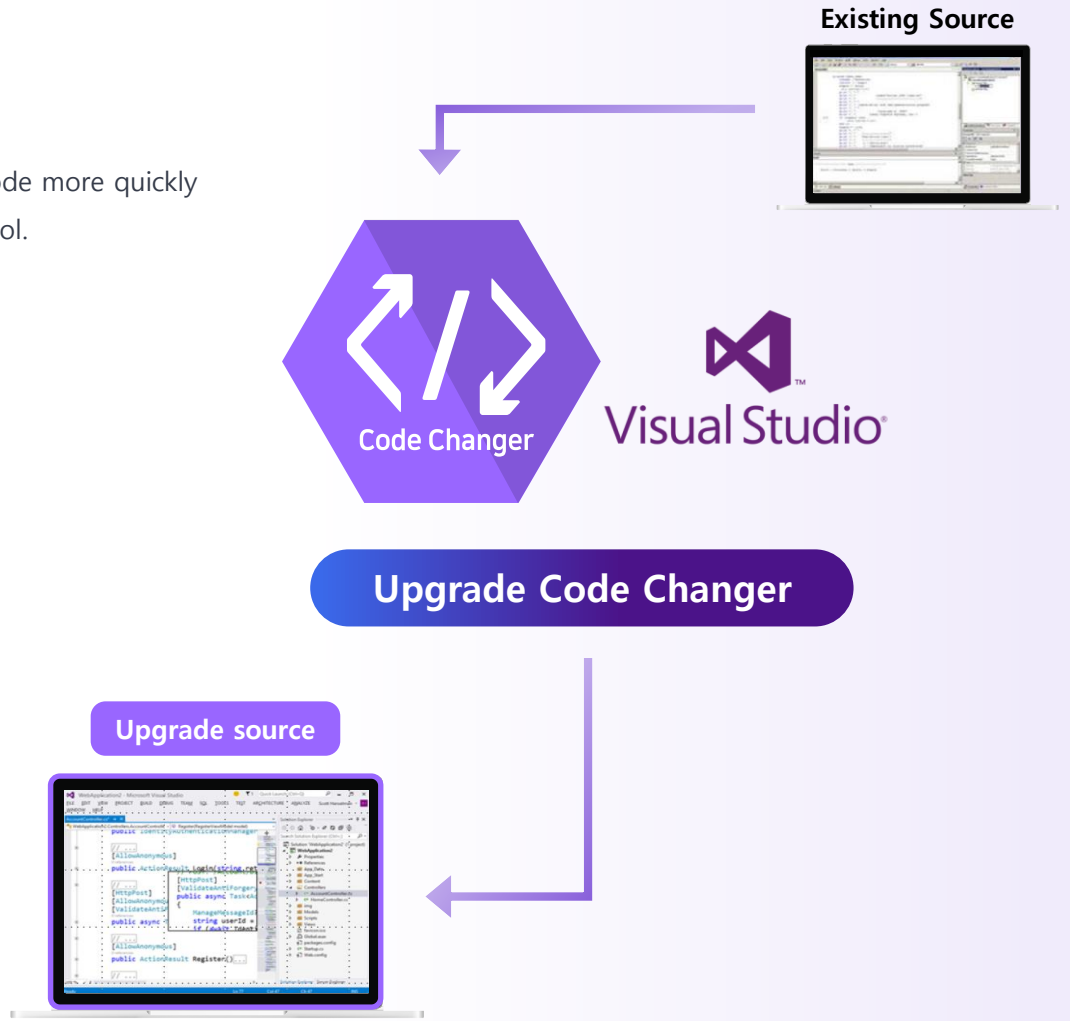
Code Changer is an automatic source code conversion solution that allows you to change the code more quickly and accurately by upgrading a large amount of source code through the Visual Studio Add-in tool.
(* Support for .NET core conversion within 2023)

Functions

- Project structure conversion (Outdated. Visual Studio → Latest. Visual Studio)
- Assembly reference conversion (Change/add/delete version of referenced assembly)
- .NET source code conversion (Efficient when there are many similar code patterns)
- ASP.NET Server Tag analysis and conversion

Reference

Public/Medical	KERI 한국전기연구원	아주대학교병원 Ajou University Hospital
Flight/Car	HANJIN	HYUNDAI
Manufacturing	kyungshin	SUNGSHIN 성신양회주식회사
Financial	농협자산관리회사	



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Solutions

SI

- System Integration
- Platforms
- Consulting
- Business Solutions

DO WELL X

- DO WELL X
- DO WELL ecoWaste
- DO WELL minibot
- DO WELL onClass
- DO WELL SoliWORKS
- DO WELL SoliDOCS

ABB

- Internet of Things
- Smart Kiosk
- Dashboard
- Linked Open Data

Innovation Practices

- Intelligent Work System
- Upgraded Framework to 64-Bit
- Contactless Smart Management System
- Drone Control System
- College Admissions Chatbot Service

DO WELL X is a minisoft's exclusive solution

developed under the slogan "Work more efficiently and effectively"

DO WELL X

DO WELL eco WASTE

Waste collection
and transport service

DO WELL mini bot

Smart
Chatbot service

DO WELL ON Class

Interactive online
Learning platform

DO WELL Soli WORKS

Work management
and collaboration solution

DO WELL SoliDOCS

Centralized documentation
and corporate document
security solution

DO WELL ecoWaste

DO WELL ecoWaste is a construction waste processing management solution that computerizes the entire waste management process, from collection, transport, treatment and records to management of purchases and sales, supporting increased work efficiency and transparency.

- Integration with the Allbaro system
- Computerization of simple repetitive manual tasks
- Convenient receipt /dispatch tasks
- Upgraded management support infrastructure
- Improved management efficiency and transparency

Reference data management

- Sales company management
- Carrier management
- Processing company management
- Unit price management
- Container management

Waste management

- Contract management
- Dispatch scheduling
- Receipts/Dispatch management
- Synced transportation details and handover data
- Carrier handover look-up

Sales / purchase management

- Sales claim management
- Invoice generation
- Payment collection management
- Sales/Purchase status
- Accounts payable management



Increase work productivity

Integration with the Allbaro system

(A waste processing system operated by the Ministry of Environment, allbaro.or.kr)

- ✓ Search through carrier handover forms from any period
- ✓ Check the location of containers and receipt/dispatch/vehicle assignment status in real time
- ✓ Automatically compile transactions and send invoices via email
- ✓ Save time involved in repetitive manual tasks
- ✓ Manage collection, transport, processing price, and history for each customer

DO WELL minibot

DO WELL minibot is a one-stop service that supports scenario planning, development, and learning, featuring customizable chatbots that can be linked to the messenger channel to be used across multiple platforms.

Fast service | New opportunities | Increased work efficiency | 365day/24H | User-friendly UI | Eliminating communication barriers

Why minibot?

Increased operational efficiency

Enhanced convenience and operational efficiency by using existing messenger and webchat without having to install a separate application

User-friendly UI

Intuitive and convenient UI

365Day / 24H

Customer satisfaction guaranteed with more online channels and 24-hour customer service

Chatbot service process

1. Scenario design
2. Keyword / Inquiry list compilation
3. Development / Test
4. Data vizualization
5. Feedback
6. Scenario fixing / Continued learning

Reference

중소벤처기업부, 서울특별시교육청, 한국전력공사, 창업진흥원, 여주대학교, 청주시 CHEONGJU CITY

Partners

Microsoft Partner

kakao 공식에이전시

NAVER 공식에이전시

CCMS is a one-stop solution for building and operating AI chatbots that can be integrated with various messenger channels across a wide range of platforms.

Chatbot management

- Bot configuration and scenario management
- Supports response management according to intention and provides various card UIs

Conversation analysis

- Inquiry analysis using 'word cloud' feature
- Response management using conversation logs

Convenience features

- Learning management
- Batch uploads of scenarios (using CSV files)
- Support provided for managing greeting, forbidden words

CCMS service



Reference

Flight/Hospital

ASIANA AIRLINES

SAMSUNG 강북삼성병원

Shipbuilding/Education

현대중공업

육군사관학교

DO WELL onClass

DO WELL onClass is an interactive AI learning integrated platform based on two-way communication between learners and instructors, designed to address the issues inherent in existing online classes, including one-way communication.

Automated attendance check | AI class recommendations | Personalized learning assistance | Learning tools | Two-way Communication | Cloud technology

Customizable platform



- Cloud native-based development optimized for cloud environment
- Provides an adaptive learning environment that suits individual learners through the collection of big data

Enhanced security technologies



- Safety encrypted environment through security authentication
- Automated attendance check using face recognition

Learning attitude management



- Provides a variety of learning tools for online classes
- Learners can retake classes with the online class recording feature

Functions

- ✓ Automated attendance check
- ✓ Real-time learning attitude detection
- ✓ Encouraging comments
- ✓ Group discussion rooms by team
- ✓ Screen and data sharing
- ✓ Survey/Quiz creation
- ✓ Video class notes
- ✓ Personalized class recommendations
- ✓ Real-time chats

DO WELL SoliWORKS

DO WELL SoliWORKS is a work management solution that enables a flexible collaboration environment with a variety of tools and features, including online conferences, shared screens, and project-specific scheduling/troubleshooting/work progress.

Automated Processes



- Automatic version updates in document collaborations
- Supports history look-up for all documents

Task Manager



- Schedule management by project
- Centralized integration of project output documents

White Board



- Browser-based screen sharing
- Writing function on shared screens

- **Project-by-project management** ..... Work-specific issue management using a work progress dashboard
- **Visual project management** ..... Intuitive project management using roadmaps and Kanban
- **Online writing function** ..... Supports real-time image sharing and idea board during online conferences

DO WELL SoliDOCS

DO WELL SoliDOCS is an intelligent document management solution that supports the efficient utilization of documents anywhere to reduce the risk of document leaks by preventing security issues.

Centralized documentation

Documents can be managed as information assets through a centralized documentation system



Enhanced document security

Blocks document leaks at the source through tracking and original copy verification service



Prevention of document losses

Backup DB allows the easy recovery of documents in the event of their loss



- **Prevention of document leaks**
  - Original copy verification service (using digital codes)
  - Blocks ransomware threats
- **Remote DRM**
  - Supports document tracking (view/download/print)
  - Real-time tracking of exported files
- **Diversified document classification systems**
  - Folder and content-type document classification method
  - Various document management methods can be used on combination

minisoft

New Business Areas



SI

- System Integration
- Platforms
- Consulting
- Business Solutions

DO WELL X

- DO WELL X
- DO WELL ecoWaste
- DO WELL minibot
- DO WELL onClass
- DO WELL SoliWORKS
- DO WELL SoliDOCS

ABB

- Internet of Things
- Smart Kiosk
- Dashboard
- Linked Open Data

Innovation Practices

- Intelligent Work System
- Upgraded Framework to 64-Bit
- Contactless Smart Management System
- Drone Control System
- College Admissions Chatbot Service

We provide a customized system and service that integrates a wide variety of IoT technologies required to build smart cities.



Indoor air quality,
Temperature and humidity,
Carbon dioxide, fine dust, etc.

EV chargers, meters,
Instruments, etc.

GMP management,
Materials management,
Facilities management,
Building management, etc.

Work management
At base stations,
wireless communication, etc.

Wireless security systems,
CCTV, etc.

Smart Safety Management Platform
POSCO ICT

Base Station Work Management Platform
SK ONS

FMS(Facility Management System)
GC Biopharma EM



Smart Safety Management Platform

A smart safety management platform collects data generated from various sensors and devices such as CCTV, Network, IoT sensors, construction facilities, etc., and monitors them in real time to identify dangers and risk targets on-site, facilitating immediate safety measures and prevention activities.

Various safety services

- Offering various safety services to protect against risk factors
- Use of smart safety technology on work sites and facilities

Safety controls

- Real-time monitoring and danger detection
- Provision of tailored safety control screen

Quick accident prevention

- Analyzing risk factors at work for faster responses
- Real-time notification of the situation in the event of an incident

Features

- Offering the range of safety information required for safety management
- Utilization of integrated control dashboard that allows convenient real-time monitoring
- Immediate response available in emergencies, with various sensors and devices

Reference

Construction

posco 포스코ICT



Base Station Work Management Platform

The base station work management platform is an intelligent system that synchronizes station data and user data using the latest ICT environment. It enhances work safety and efficiency by implementing a voice recognition-based work system.

Enhanced work efficiency

- Synchronization with base station data
- Increased work safety through AI-based object recognition

Voice recognition

- Built a voice recognition work system
- Facilitates work on-the-go

Providing a dashboard screen

- Offering dashboards that present various information on current status
- Real-time data analysis and monitoring

Features

- Incorporated voice recognition service for a more convenient work process
- Automatically identifying individuals not wearing safety equipment
- Analytical data and current status can be easily checked at a glance

Reference

Network

SK ons

FMS (Facility Management System)

시설물관리시스템 oncare

ONCARE specializes in various facilities management services and can be applied in a wide range of industries, including pharmaceutical, construction, logistics, automotive repairs, and more. It is a comprehensive facilities management system that synchronizes facilities and work data, streamlining existing manual processes and enabling faster and easier facilities checks from anywhere and at any time

Managing a user-friendly dashboard | Paperless workflows | QR code synchronization | IoT facilities management | 3D drawing checks | Efficient emergency response processes

Smart work management

- Enhanced work efficiency through the systematization of traditional paper-based workflows
- Effortless work status management with a glance at the dashboard (management by person in charge)



Synchronization with IoT services

- Effortless facilities management with QR stickers for easy scanning
- 3D drawing integration for building information



Real-time monitoring

- Automated emergency responses via real-time monitoring
- Alarm services for facility malfunctions or failures



Features

- Available on web-based systems or tablet PCs
- Reduced manual work time for facilities management
- Quick emergency response through real-time data synchronization

Reference

Construction GC녹십자EM

AirAct

Contactless Smart Kiosk

Featuring motion recognition that supports screen control using just hand gestures, voice commands,
and the effortless integration of media marketing contents, **our smart kiosks are perfect for smart cities and the contact-free era.**
The solution is extremely user-friendly, even for the less digitally-savvy.

Motion recognition

- **Screen control using hand gestures (clicks, swipes, etc.)**



Voice recognition

- **AI-based voice recognition (Wake-up-word : Hey, Coco)**



01. A Packaging system that can be readily attached to from existing kiosks

A setup featuring hand gesture recognition sensors and a voice recognition microphone that can be easily attached to existing kiosks

02. Convenient content customization

Screen customization allows diversification using menu design as well as image and video contents

03. Additional advertising benefits

See additional advertising results through constant ad and marketing content exposure on the kiosk's stand-by screen

04. Integration with government projects and companies

Can be integrated with business, ads, and information delivery of public organizations, traditional markets, tourist attractions, and companies

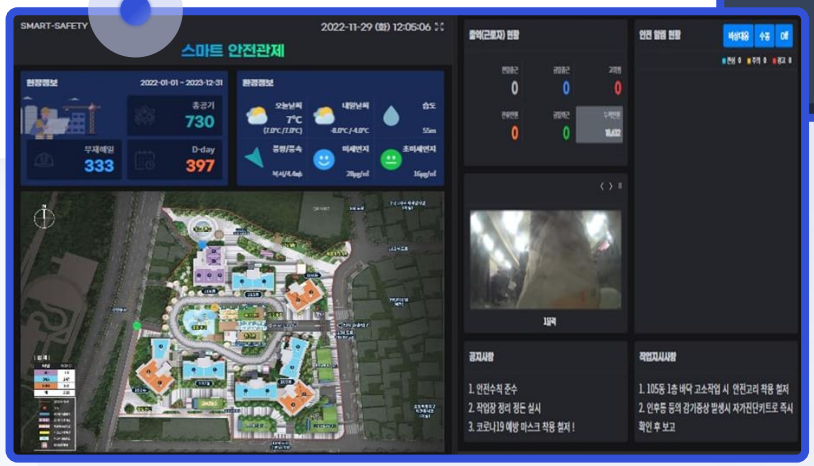
Dashboard

It visualizes the collected data in a dashboard format and offers a status board screen in various forms tailored for analytical purposes, facilitating the comprehensive analysis and monitoring of diverse situations.

Intelligent work management system



Safety management system for construction sites



Features

- ✓ Intuitive screen layout
- ✓ Integrated analytics and detailed analytics functions
- ✓ Integration with maps and status boards
- ✓ Use of exclusive web components and images
- ✓ Robust report development tool

Reference

Construction — posco 포스코ICT

Communication — SK ons

Medical — 연세대학교 의료원

Linked Open Data

Linked Open Data

Linked Data + Open Data

- Improving the quality of open data for unrestricted data usage
- Developed with a strong focus on the standards defined by W3C, the global web standard-setting institute

LOD that determines quality and usability

Example of LOD application

- Utilization of LOD leveraging IBM Watson's Q&A program-based technology
- Asia's largest LOD establishment "KIPO Industrial Property Right LOD"

4 principles of linked data

Data-centered web connectivity

- Use of URI (Uniform Resource Identifier)
- Accessing URLs via the HTTP protocol
- Using standards such as RDF and SPARQL
- Provision of comprehensive link information

Data Input Platform

Providing an HTML input platform that allows dynamic schema standard data input

Dynamic Schema Generator

Creating a dynamic document schema using XML

RDF Schema Consulting

Consultation for RDF schema document composition

Relation Data Query Generator

Offering an SQPARQL-generating module by tracking relationships in LOD data

Triple Store

Creating a Triple Store that facilitates RDF document management and SPARQL query

SPARQL Query Editor

Providing an editor for executing SPARQL queries on the web

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Innovation Practices

SI

- System Integration
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- Consulting
- Business Solutions

DO WELL X

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- College Admissions Chatbot Service

Name of customer | SK ONS

Customer information | An ICT infrastructure management specialist that maintains and manages wired/wireless ICT infrastructures across the nation to deliver the highest-quality service to its customers

Project overview

- Built an intelligent-type system using the latest ICT environments, taking into account the fact that the job requires a lot of on-site dispatches
- Built a voice recognition-based work system
- Built an integrated data analysis system
- Improved safety management on sites using AI object recognition
- Map-based work management feature

Applied products/technologies

- **.NET Framework solution "NeoDEEX"**
- UI/UX design

Project environment

- Mobile(Android, iOS)
- Samsung galaxy watch(Supporting Watch 4)
- Smart Client

Service components - Intelligent-type work system configuration

Join Up (Android) Join Up (iOS)



Intelligent Work System

Increase work efficiency

Applied IoT technology using base station information data and user data for increased work efficiency

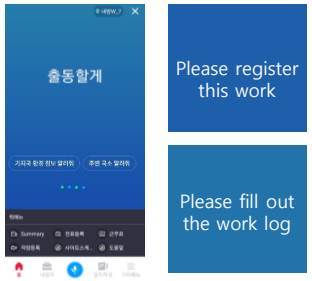


Linked with base station information data, including automated access verification and emergency dispatches



Enable safe processing

Optimized processing using voice recognition enables safe processing, even during travel between sites

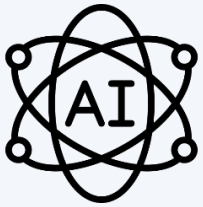




Increase work safety and convenience

AI-based automatic safety helmet recognition technology
increases work safety and convenience





Dashboard

A dashboard that offers a single-window view of everything,
from analysis data acquired using IoT and AI, work management by team, to notices



아주대학교병원
Ajou University Hospital

Name of customer | Ajou University Medical Center

Customer information | Leading medical development with the development of key future technologies, including medical big data and AI, through the College of Medicine-Graduate School of Medicine, College of Nursing-Graduate School of Nursing, Graduate School of Public Health, and the Advanced Medical Research Institute

Project overview

- Signed agreement for platform and program upgrade (64-bit) to improve outdated operational system environments
- Existing 32-bit framework can be upgraded to 64-bit based framework, and used simultaneously with 32-bit
- Upgraded .NET Framework from version 3.5 to version 4.8

Applied products/technologies

- **.NET Framework solution "NeoDEEX"**
- UI/UX design
- .NET 4.8, C#, WinForms

Reference

- minisoft upgraded Ajou University Medical Center's integrated medical information system (SMART) to 64-bit

[Sisanewszine, 2021.07.08 김성민 기자]

- Completed upgrading integrated medical information system of Ajou University Medical Center

[IT DAILY, 2021.07.08 박재현 기자]

Project performance

Reduced server response time	- Eliminated COM+ overhead using NeoDEEX
Enhanced performance	- Replacement of outdated equipment - Upgrade of operational SW (e.g., frameworks, etc.) - Performance enhanced by 30% through program process improvement
Reflecting the latest trends	- Improved user interface (diversifying theme and menu access) - Support for various platforms, including web, WinForms, mobile, etc.

AirAct
Contactless Smart Kiosk

System information | Contactless Smart Management System 'AirAct'

System overview | Increased contact-free recognition distance using infrared hand gesture recognition sensors, and provided voice command and guidance features using STT(Speech to Text) and TTS(Text to Speech)

System features

- ✓ Prevents infection and hygiene issues through hand gesture recognition sensors that allow contact-free command
- ✓ Integrates with a variety of contents, including weather, marketing materials, ads, and maps
- ✓ Product packages that don't require H/W purchases
- ✓ Integrates with other customer systems and solutions for increased convenience and additional sales benefits

Technological innovations

- **Patents registered : DID device, DID system and control method of DID device**

  Registered patent for a kiosk device capable of recommending customized tourist information, taking into account the user's characteristic data collected using video and audio information obtained through appearance recognition cameras and voice recognition

- **Completed test evaluation through an accredited testing agency (Korea Testing Certification Agency)**

Classification	Existing technology level	minisoft's technology level
Recognition rate of motion command	94%	**95% or more**
Recognition rate of voice command	72%	**90% or more**
Accuracy of answering	79%	**99% or more**

Exhibition results



Korea International Construction & Industrial Safety Expo (2022.10)

- Confirmed a high level of interest and demand for contact-free recognition technology
- Identified customer sanitation and hygiene needs



Sejong City demonstration zone exhibition project (2022.11)

- Expected use in multi-use facilities, public institutions, tourist destinations, etc.
- Identified customer sanitation and hygiene needs

SSNewTech

Name of customer | SSNewTech

Customer information | Leading the development in the field of deco film with innovative technologies in silk screen printing, UV treatment, mold, metal deposition and precision high-speed processing

Project Overview

- Smart agriculture management enabled through an electronic map-based agricultural agency matching platform
- Efficient crop management and look-up at any time, from anywhere using PC and a dedicated mobile app
- Agricultural work can be consigned through Farm 6 Man (agricultural work specialist)

Project environment

- .NET 6
- ASP.NET, C#, Vue.js
- Mobile(Android)
- UI/UX design

Project performance

Reduced pest control workload and expense for farmers

- Easy and convenient work through GIS-based agricultural work management system
- Unnecessary tasks are simplified and reports on completed tasks can be created with a single click

Dedicated mobile app for farmers/workers

- Detailed work information and process requests can be checked through the dedicated mobile app

Real-time monitoring of pest control status and progress

- Drone route can be monitored by registering the route on GPS

Provides matching service between farmers and agricultural specialists(Farm 6 Man)

- Farmers can search for and be matched with agricultural specialists, by type of work or expertise



Korea Military Academy

Name of customer | Korea Military Academy

Customer information | A 4-year military academy established in 1946 that trains and educates Korean army officers

Project overview

- MS Azure Cloud-based college admission consulting chatbot
- Integrated management of webchat and KakaoTalk via CCMS
- Basic admissions information is handled using AI chatbots, which leads to increased efficiency for the business and prompt response for the user

Project performance

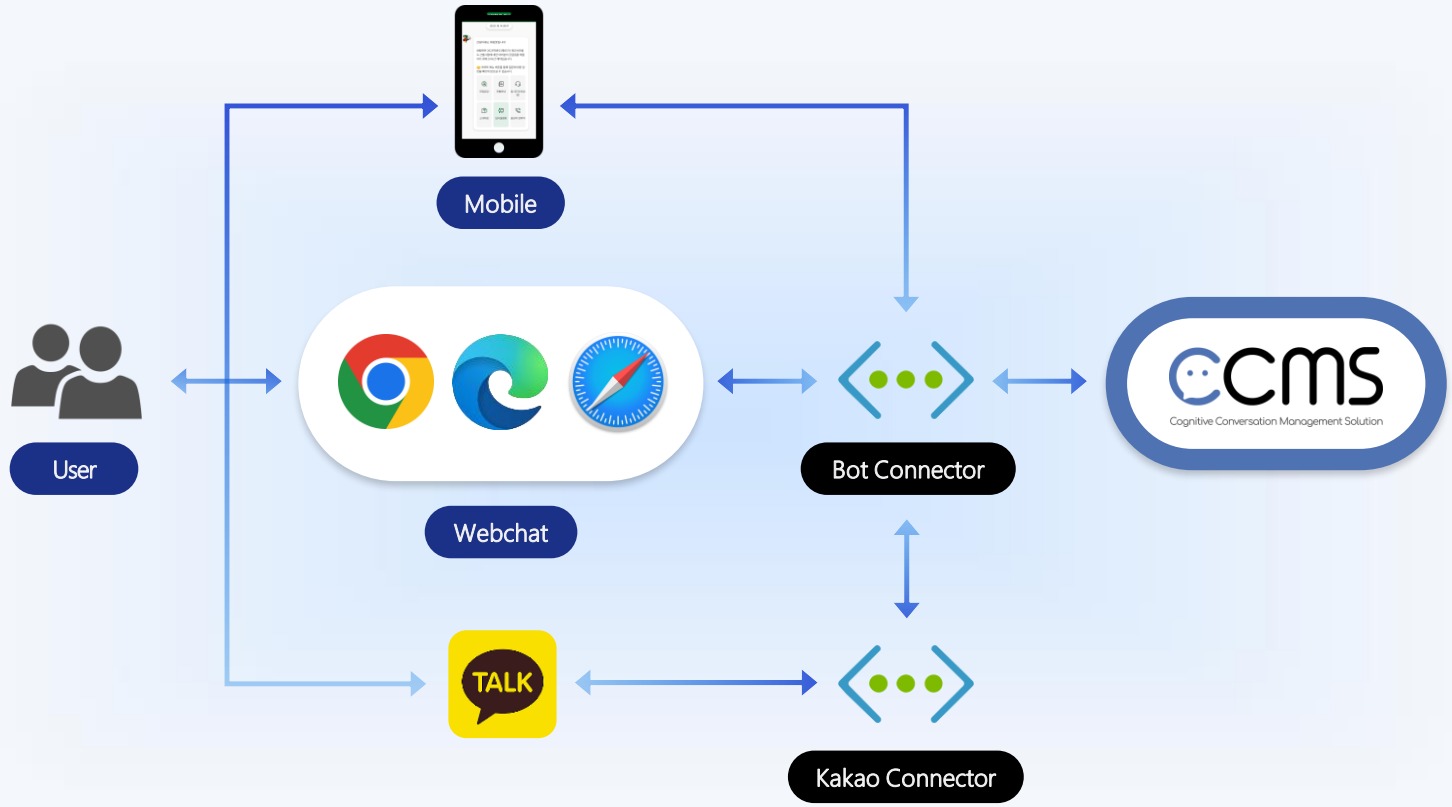
- Uniquely optimized functions to meet the needs of users through schedule management, global variable management, and auto completion
- Integrated management system using CCMS reduces the time and effort of processing admissions requirements that change every year, while supporting a sustainable service

Reference

- Chatbots now provide college admissions consulting for Korea Military Academy

[Kookbangilbo, 2022.04.20, 맹수열 Reporter]

Service flow



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through constant pursuit and innovation.

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