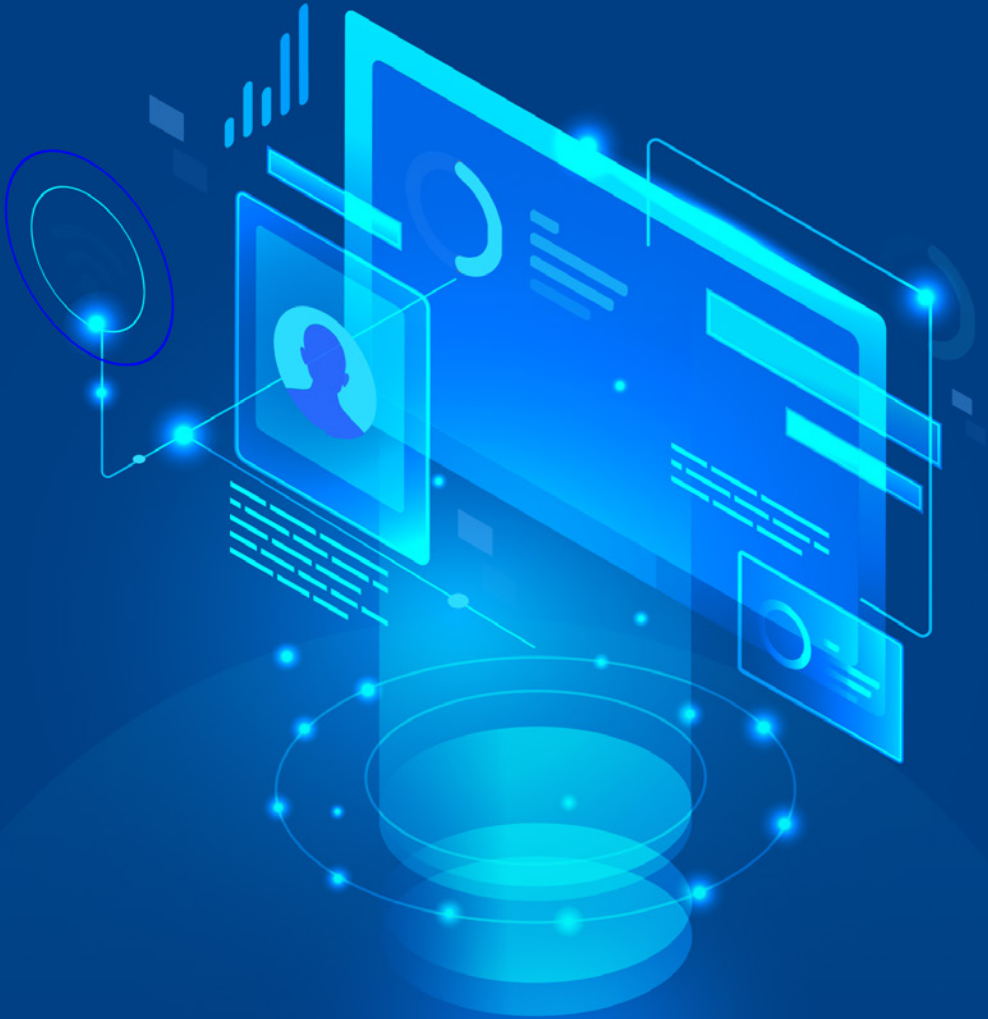


# Software Development Service

Ready to  
*Revolutionize Your Business?*





# Contents

- Our Software Development Service
- Tools & Technologies
- Working Process
- Engagement Models
- Why Newwave Solutions?
- Case Studies

# Our Software Development Service

## OUR SOFTWARE DEVELOPMENT SERVICE

Entering the digital age, the business world has rapidly changed to adapt to constant changes in a customer-centric world. Business, organizational model, strategy, customer journey, and operation process must undergo great digitalization changes.

Are you ready to thrive in the digital age? Software development is the evitable solution for businesses to enhance work productivity and quality in the digital era.

At Newwave Solutions, we have an expert team of software developers that can provide excellent quality to your custom needs at diverse software development costs. The business world is constantly changing and is accelerating to new standards with each passing day. It is time for you to break the record by partnering with a highly trusted software development company like us.

## KEY SERVICES

- Enterprise Mobility Services
- SaaS Applications
- Digital Transformance Services
- Legacy Application Modernization
- Data Management
- Custom Software Development
- Enterprise Application Integration
- Maintenance & Support
- MVP Development
- Application Migration and Re-engineering
- Business Automation



## KEY BENEFITS

### Customer Satisfaction

- We work on the latest frameworks and technologies to deliver you user-friendly, scalable, secure, and new business solutions as per your need.

### Agile Procedure

- We work on the Agile methodology and conduct frequent scrum events for optimizing the practices and methods and delivering the finest results.

### Dedicated Teams

- We have a dedicated team of web app developers who are well versed in delivering high-end business solutions on several frameworks and technologies.

### Integrity & Transparency

- We respect your ideas and vision, provide you with every small project detail regularly, and consider your worthy advice when and as needed.

### Flexible Engagement Models

- Instead of working on unwanted rigid and strict parameters, we offer flexibility to our clients to select from different engagement and hiring models.

### Competitive Pricing

- We offer an ideal combination of cost-effective rates with amazing quality to make sure the lowest pricing in our segment.



# Software Development

## Tools & Technologies

### CMS



### FRAMEWORK



### CLOUD



### FRONTEND



### DATABASE



Visit our website for more information

# Working Process



Step 1

## Discover

### Initial Consulting

- Complete questionnaire
- Meet consultant and discuss

### Outcomes

- Quotations



Step 2

## Consulting

### Strategy & Analysis

- Discover and define vision
- Blueprint for the project

- Project Specification
- Information Architecture & Strategy
- Keyword report
- Audit
- Implementation plan



Step 3

## Implementation

### Design

- UI/UX Design
- UI/UX Implementation

### Outcomes

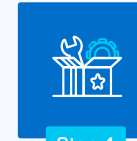
- Wireframes
- Visual concept

### Develop

- Front-end
- Content
- Back-end

### Outcomes

- Service development
- Feature development
- Test case



Step 4

## Maintenance

### Testing & Deploy

- Deployment & Management
- Test Automation

### Outcomes

- Test case execution
- Service Launching



Step 5

## Optimization

### Managed Service

- 24/7 support
- Incident management
- Performance management

### Outcomes

- End-to-end managed service

# Engagement Models

	Fixed Price	T & M	Extended Team
■ Requirements	Defined	Evolving	Evolving
■ Flexibility	Fixed	Moderately Flexible	Highly Flexible
■ Client's control	Low	Medium	High
■ Average hourly rate	15-25 USD	15-30 USD	25-60 USD

## How we work

We utilize the best honest and improvement techniques for building compelling endeavor program improvement handles and arrangements in an organized and efficient way.



## WHICH SHOULD YOU CHOOSE?

### Fixed Price

- The best model to get the complete solution under a fixed budget.
- Projects that have well-defined goals, vision, workflows, and results which are unlikely to change for the course of development.
- If you want to test out a new software provider before you hire them as your permanent dedicated developer.

### T & M

- You only pay for the time and resources spent on the project.
- Long-term projects with continually evolving and unclear requirements.
- When you want enough flexibility to modify your requirements and to vary workload.

### Extended Team

- This model allows you to add more workforce to set up an offsite team as strong as your in-house team.
- For long-term IT projects with original goals and rapidly changing scopes.
- Daily standup meetings
- When you want to access cross-border expertise and knowledge sharing.

## T&M



## FIXED PRICE



# Why Newwave Solutions?

Being a well-known software development company, **Newwave Solutions** is recognized for serving modern business needs and delivering the best-in-class solutions at a competitive cost across the globe.

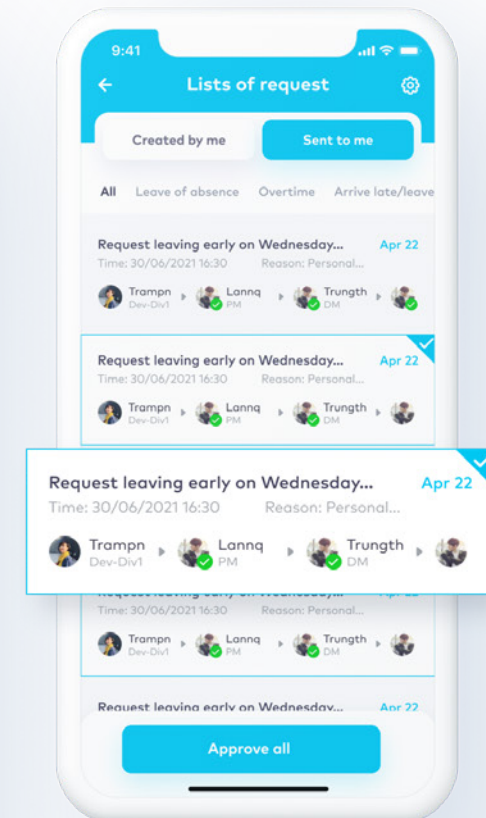
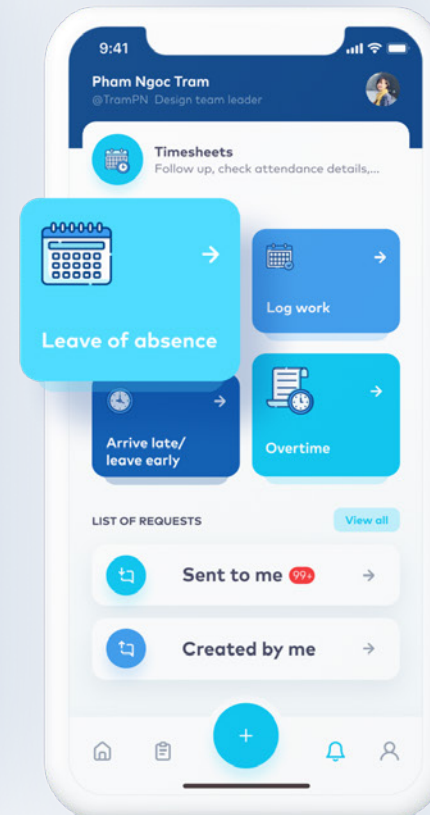
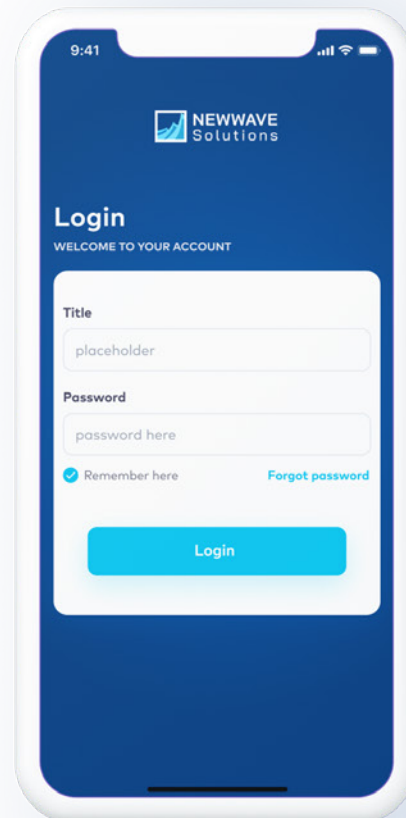


## Next Steps

If you want to get more information about our Software Development services and learn how we can help your business please get in touch via our website: [www.newwave.vn/contact/](http://www.newwave.vn/contact/)



# Case Studies



# 01. Powerful Collaboration Sees Application Modernisation Rapidly Realised

A platform to connect trailer renters and owners

## Service

Mobile App Development

## Industry

Business

## Platform

Mobile (Android / iOS)

## Technology Stacks & Dependencies



## Type

Native App



## App Features

- Enables person-to-person trailer rental by putting unutilized trailers to good use.
- Renters can easily search for trailers near them, complete booking process and sign rental agreements completely on phone.
- Trailer owners can upload trailer's information via phone and sign rental agreements completely on phone.

## Business Challenges

- The client felt risky and skeptical about our work at the first stage of the project, prior to implementation.

→ The way to convince the client is to show them proof. We decided to have a PoC (Proof of Concept) to show the viability of our proposal. Our clients were satisfied with the PoC and decided to start implementing the project.

## Technical Challenges

- The open source code library which supports map display encountered errors and there had not been any way to repair it. On the other hand, we had to maintain and update new features while ensuring the stability of the current system.

→ We split our development team in half to be able to quickly solve problems, avoid negatively affecting our client's revenue. The first team continued to fix the old library, and the second team deployed a new library and test to preserve system performance.



## Solutions

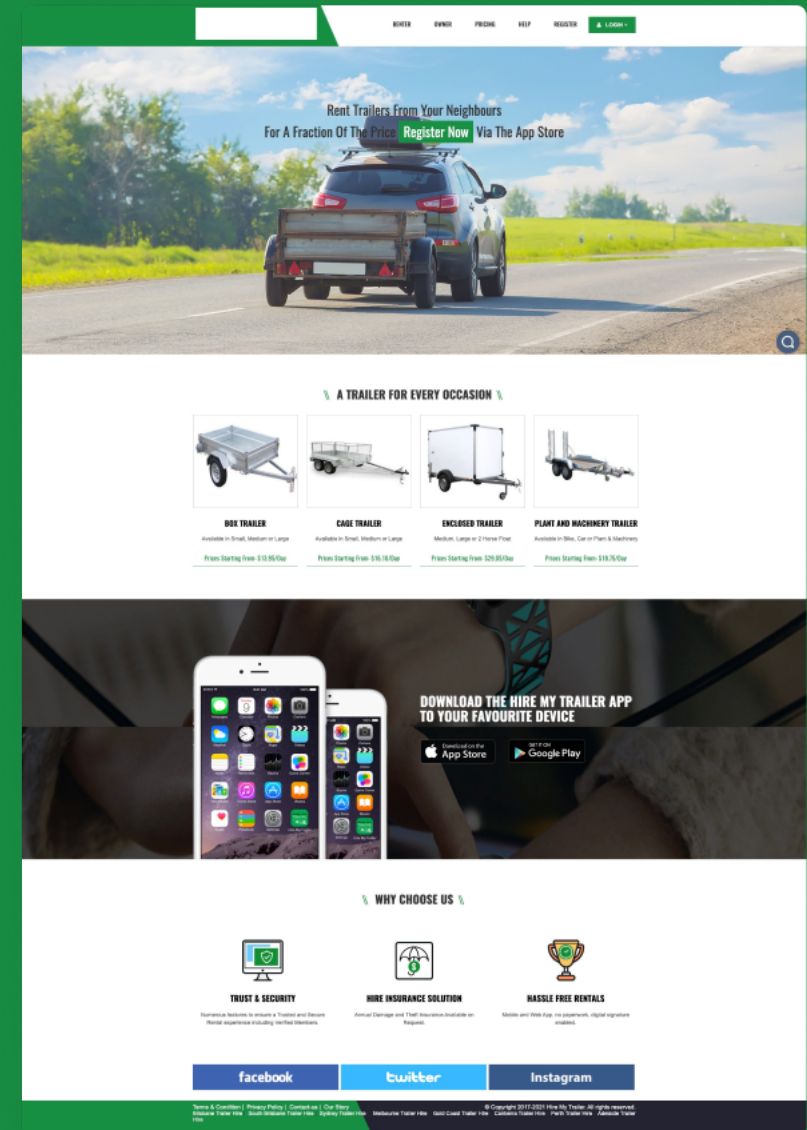
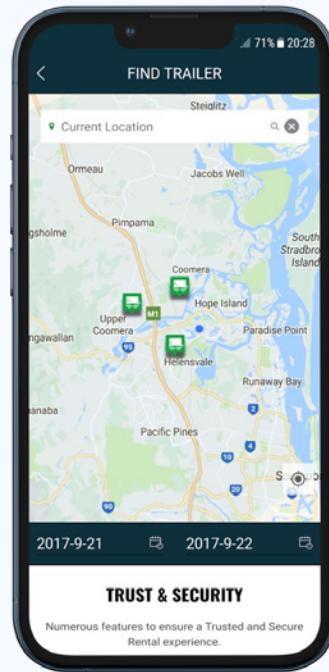
- Technology: Android / Google Service
- Programming Language: Java/ Kotlinz
- Management Tool: Jira
- Management Methodology: Agile

## Newwave Solutions' Roles

- Development

## Results & Benefits

- There were 23,300 app downloads in 2020

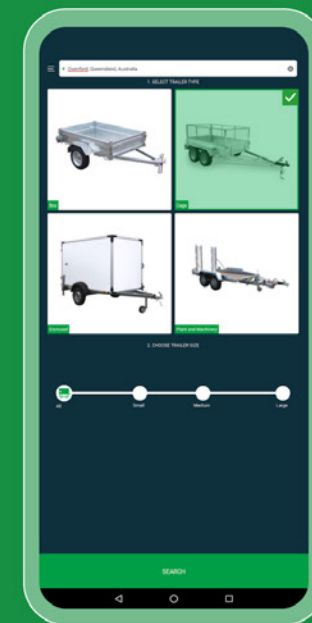
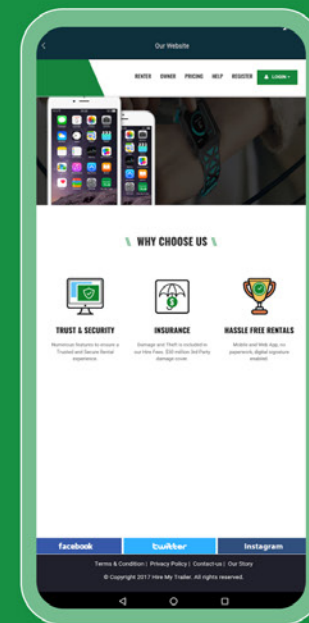
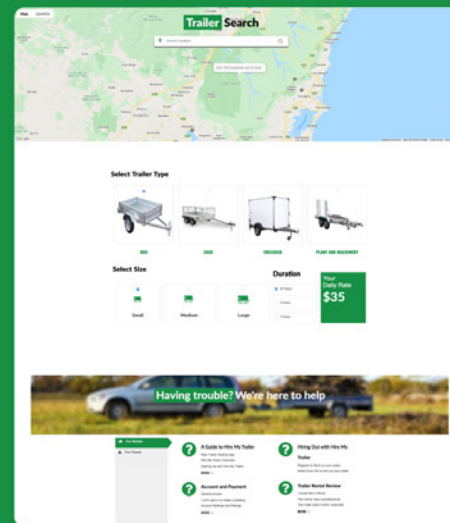
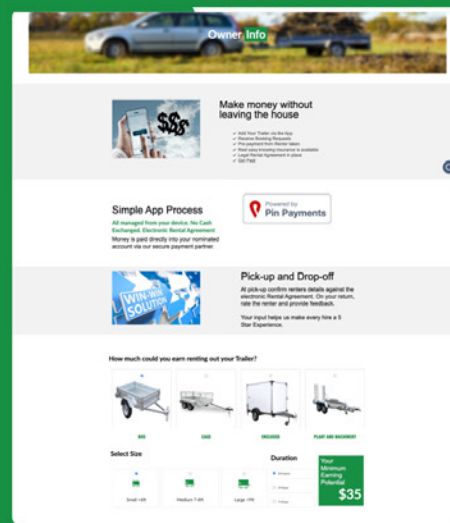


“

Client quote

Pleased with the accuracy of the final product and the responsiveness of both points of contact, the client praises Newwave Solutions as an effective and trustworthy partner. Internally, the site was received very positively. Clients can expect a calm communicator and exacting partner, along with a thorough eye for detail.







## 02. Best Live Streaming Software App For Professional Streaming

A new generation livestream platform in Japan

### Service

Software Development

### Industry

Social Network

### Platform

Web & Mobile  
(Android / iOS)

### Technology Stacks & Dependencies



node



KOTLIN



ReactiveX



### Type

Native App

### App Features

- Users can interact and communicate with streamers through voice chat and comment functions.
- Streamers can make money legally through the reward system.
- The app provides streamers with unique filters and stickers.

### Business Challenges

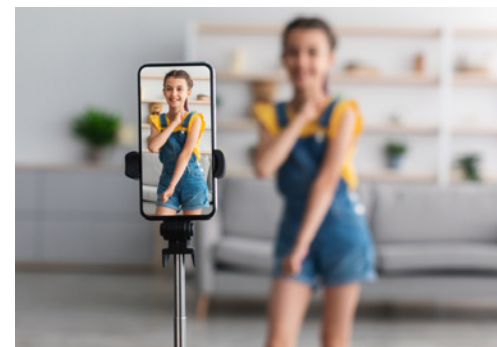
- Our clients decided to enter the business and compete directly with competitors that already had a firm position in the market with great financial and technological strength.

→ Our initial approach was to analyze core technologies used in the system, develop PoC products, continuously measure and evaluate performance to scale in both size and functionality to keep up with leading competitors in the market.

### Technical Challenges

- Face recognition function built with machine learning models and in-app functions like live stickers, face and skin filters are challenging to mobile apps, which usually do not have a lot of system resources.

→ After considering several solutions available in the market, we decided to use livestream technology developed by Wowza, which helps with low latency in live streaming. Moreover, good load balancer helps distribute the load for large and complex distributed server system, making it easy to serve thousands of viewers at once. In addition, our team uses microservices in system infrastructure to increase flexibility and scalability in the process of continuously updating new features.



## Solutions

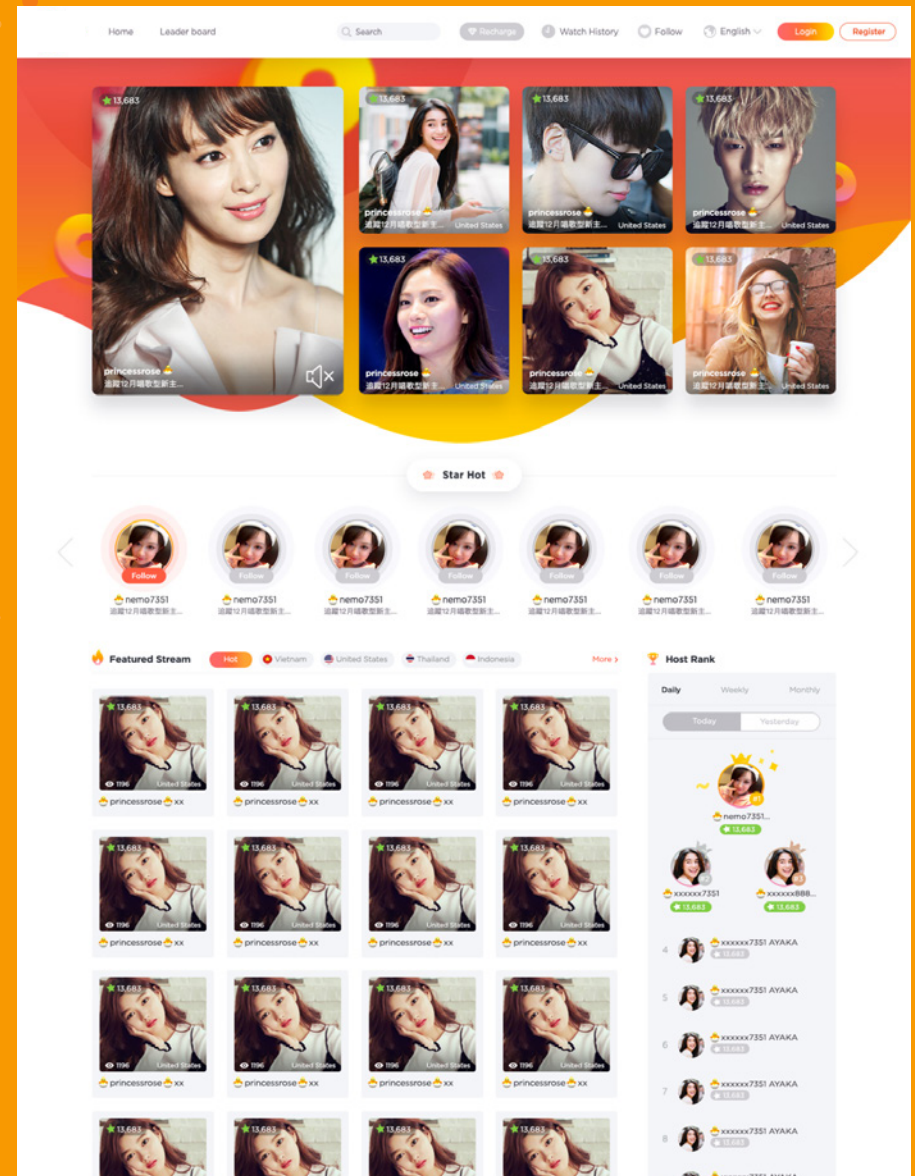
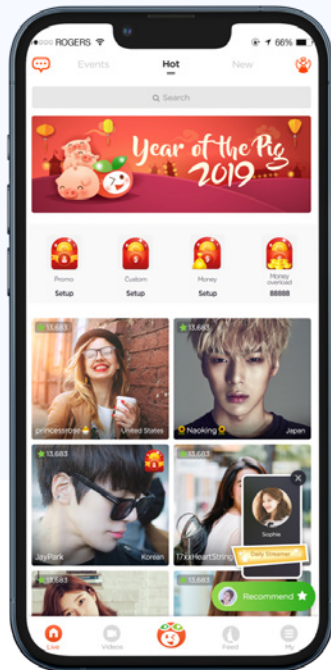
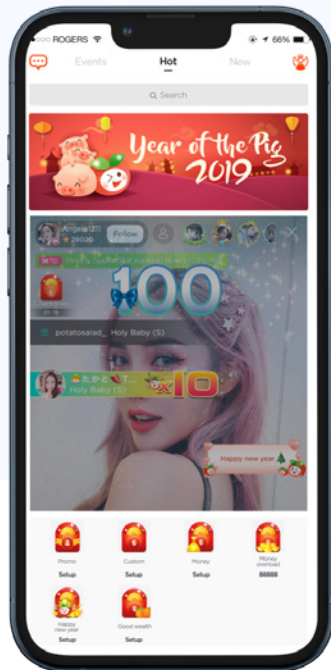
- Technology: Mobile / Android / iOS / Firebase / Node JS
- Programming Language: Swift / Kotlin / Python
- Framework: NestJs / ReactiveX / Realm.io / Android Studio Profiler / Xcode Instrument
- Management Tool: Jira
- Management Methodology: Agile

## Newwave Solutions' Roles

- Analyzing
- Management
- Development

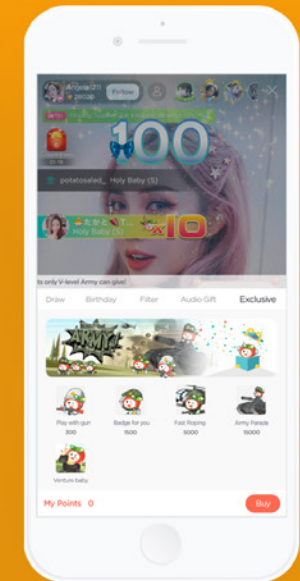
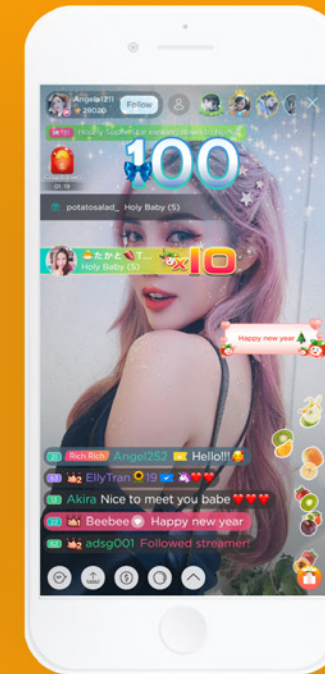
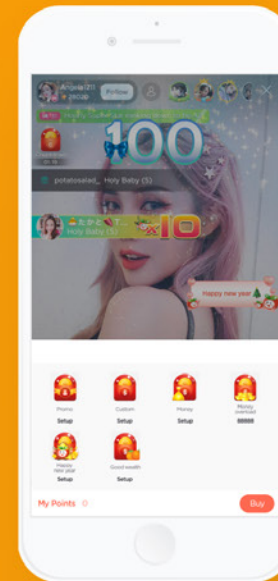
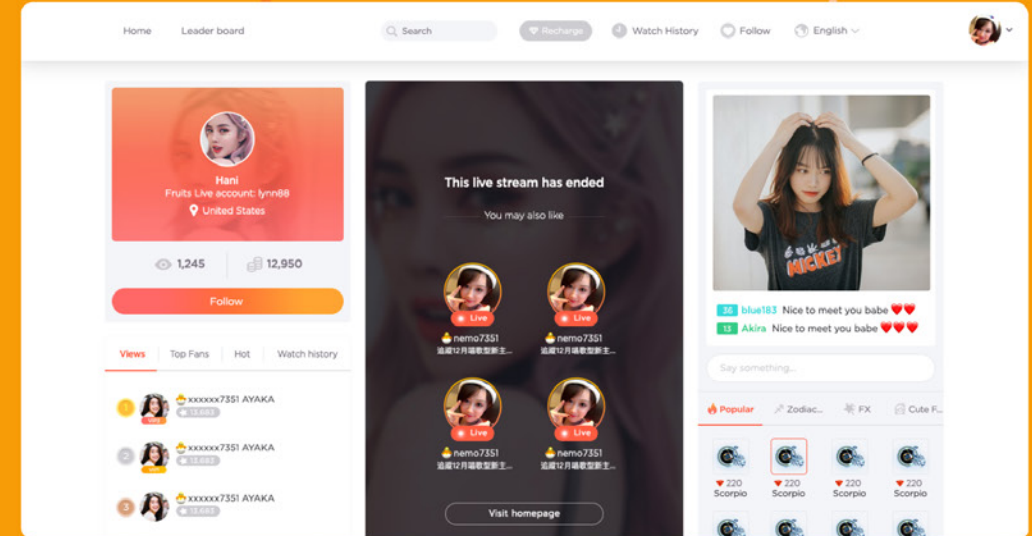
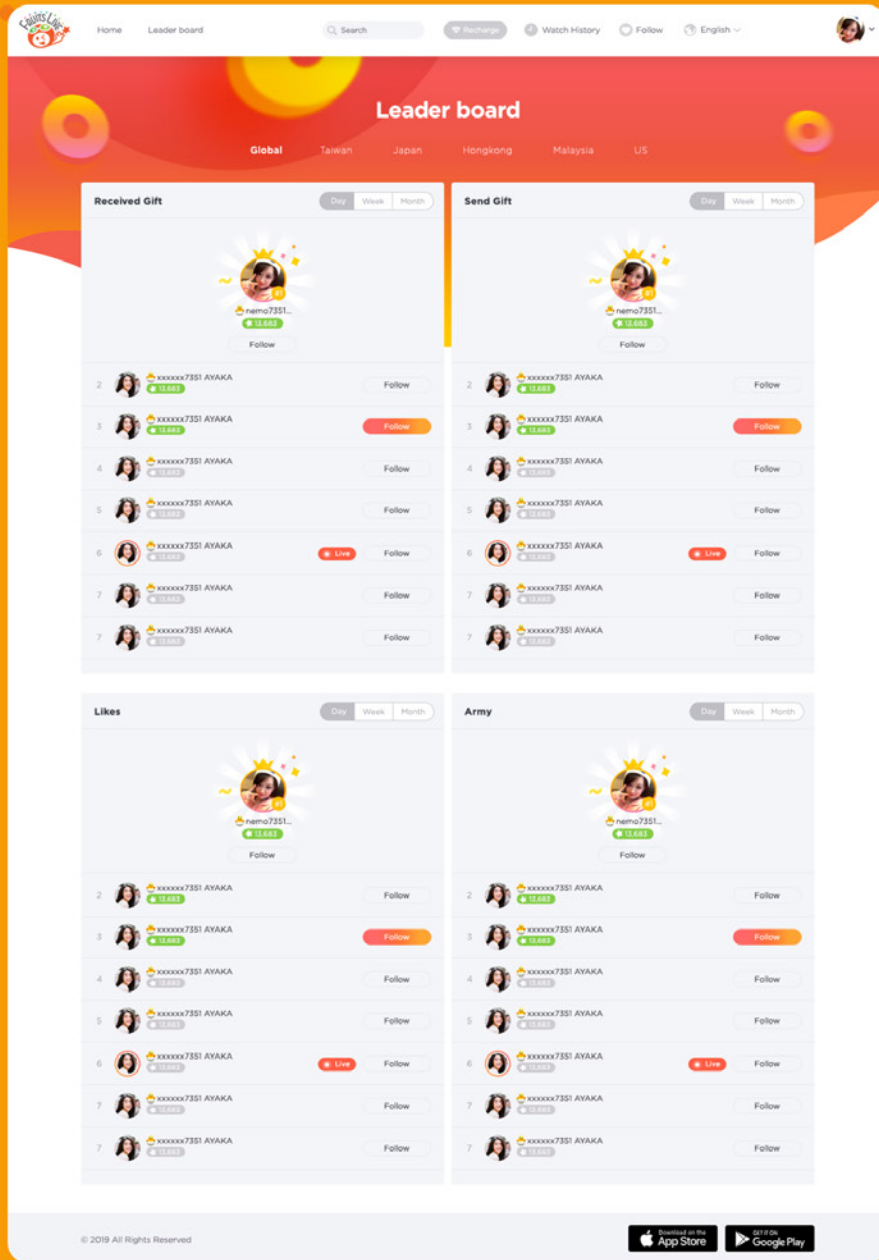
## Results & Benefits

- Interaction functions not only increases user engagement and the number of new users but also boosts the app's retention rate.



## Client quote

Newwave Solutions is an accommodating and attentive partner. Flexible and reliable, the team is quick to adapt to the client's working style and is able to scale as needed. They go above and beyond to deliver on their promises and provide valuable recommendations.





# 03. T-shirt Business App Adoption Leads To 57% Increase In Revenue

A platform where the whole supply chain happens, where anyone can create printable designs for items like T-shirts, bags, phone cases, printing and selling the items

## Service

Software Development

## Industry

Ecommerce

## Platform

Web & Mobile  
(Android / iOS)

## Technology Stacks & Dependencies

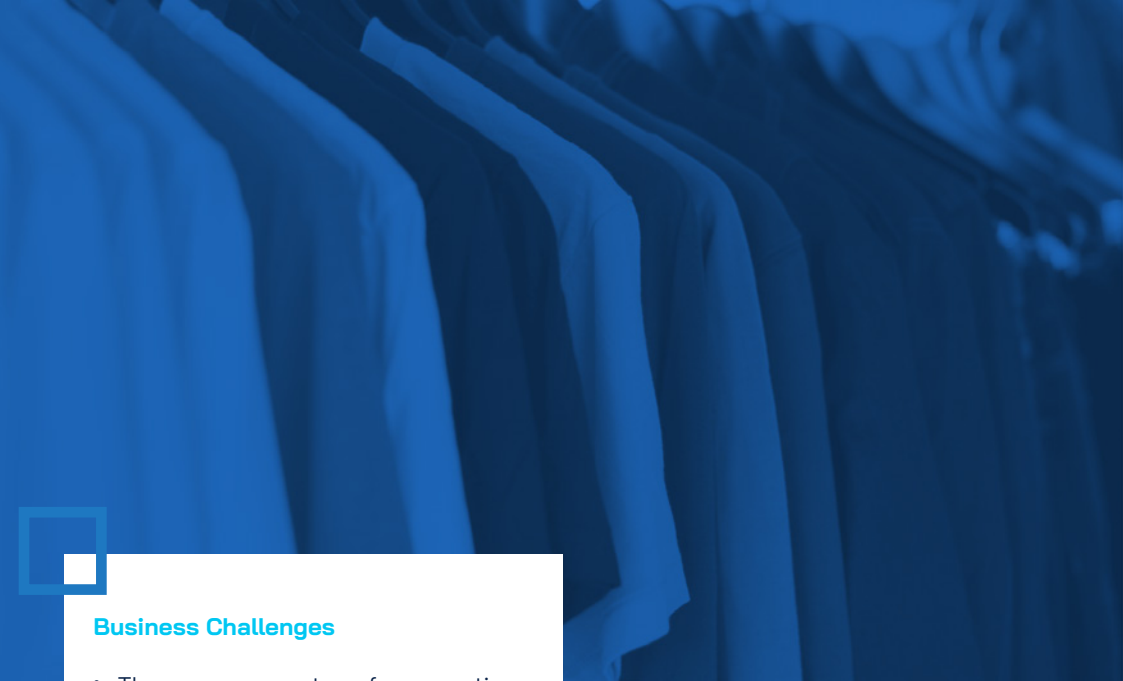


## Type

Native App

## App Features

- Allows users to create and sell their own designs with the help of the system to print and ship out orders.
- Users can buy final products or T-shirts as materials from suppliers.
- Users can create their own shops to sell their products.



## Business Challenges

- There are many steps from creating a design to shipping the final product out to customers.

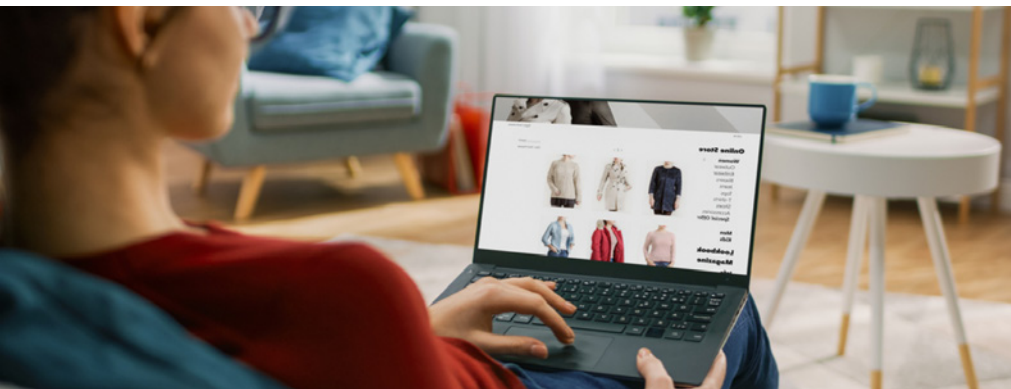
→ We must implement app integration for automated and synchronized process of creating a design, product printing, online ordering and offline delivery.



## Technical Challenges

- We had to handle high traffic peaks.
- We adopted suitable AWS services (RDS, EC2, ELB, Route53, Cloudfront, etc.) to ensure stable operation under high and stressful loads.
- There was a large amount of data related to users and orders. The system could be attacked by hackers due to its popularity.
- Our team made a strategic plan to ensure the systems are constantly and securely monitored. We also supported the client to immediately solve any problems to get their business back to normal operations.



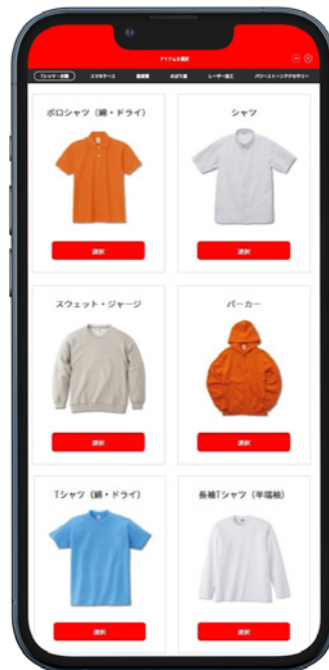


## Solutions

- Technology: AWS (RDS, EC2, ELB, Route53, S3, Cloudfront) / Docker / Jenkins
- Framework: ReactJS / CakePHP / Android Java / Swift
- Management Methodology: Agile & Scrum
- Management Tool: Redmine
- Programming Language: Javascript / PHP / Java

## Newwave Solutions' Roles

- Analyzing
- Management
- Development



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なら1枚からでも  
オリジナルTシャツが作成できる!

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い定番ロングスリーブです。  
1,400円 (税込1,540円~)  
カラー 15色 サイズ 110~3XL

軽量プルオーバー  
軽めの素材を用い、ライトな着心地  
を実現した軽量プルオーバー。  
2,000円 (税込2,200円~)  
カラー 12色 サイズ 110~XXL

3分で完成! あなただけのオリジナルアイテム

1 画像をアップする  
あなたが作ったイラストや写真をアップロ  
ードします。自分の作品がない方も安心  
ください。Up-Tの用意したスタンプやデザ  
インツールで無料で簡単に作成できます。

2 オリジナルアイテムの完成  
購入したい、販売したいアイテムを選択し  
たら完成です。アイテムはTシャツ、トレー  
ナー、iPhoneケースなど2000種類から  
選ぶことができます。創業70年のメーカ  
ーなので品質も安心。

3 オリジナルTシャツをその場で購入  
完成したら、その場で購入!  
あとは商品が届くのを待つだけ!  
メーカー直送なので原価で購入できて、と  
ってもお得です。



## Client quote

Newwave Solutions delivered a high-quality solution that completely satisfied internal stakeholders. Their dedication to success supported seamless collaboration across teams. They effectively communicated and quickly responded to inquiries. Their project management skills ensured a successful partnership.



# 04. Homes For Real Estate Sale, MLS Listings, Brokers

An app that creates a professional and stable community for brokers, and at the same time creates an ideal environment for brokers to have a successful career

## Service

Software Development

## Industry

Real Estate

## Platform

Web & Mobile  
(Android / iOS)

## Technology Stacks & Dependencies



## Type

Cross Platform



## App Features

- Brokers can actively reach out to new projects and clients without having to be dependent on anyone.
- Brokers can streamline transactions, nurture clients anytime, anywhere.



## Business Challenges

- There had been a great need for a mutual app for members in real estate, technology and finance, but it was not easy to create one that can meet the expectations of users.

→ Our team communicated on a regular basis to deeply understand what the client really wanted.

## Technical Challenges

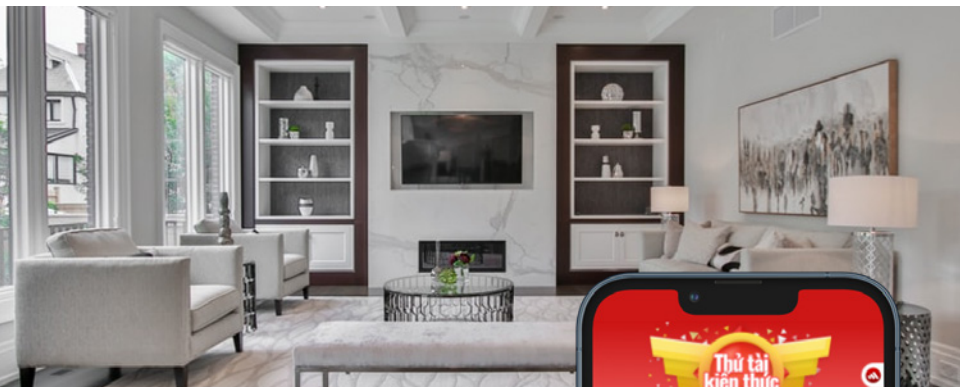
In order to build such a complex app, we had to:

- Build a learning management system to create online courses.
- Build a trading system.
- Build a social media for real estate.
- Build a continuous digital transaction system.
- Create Play-to-Earn games.
- Use complicated technology platforms such as microservice, message queue and container orchestration.

→ At the first stage, our team will work directly with the client at their company to be able to receive feedback directly from the stakeholders. We also learned from other similar apps in the market to understand what to improve and successfully create a unique system that offers many special features.







## Solutions

- Technology: AWS / Mobile cross-platform
- Programming Language: Javascript / Typescript / Dart / Swift / Kotlin
- Framework: Angular / Flutter / VueJS / Wordpress
- Management Tool: Jira
- Management Methodology: Agile

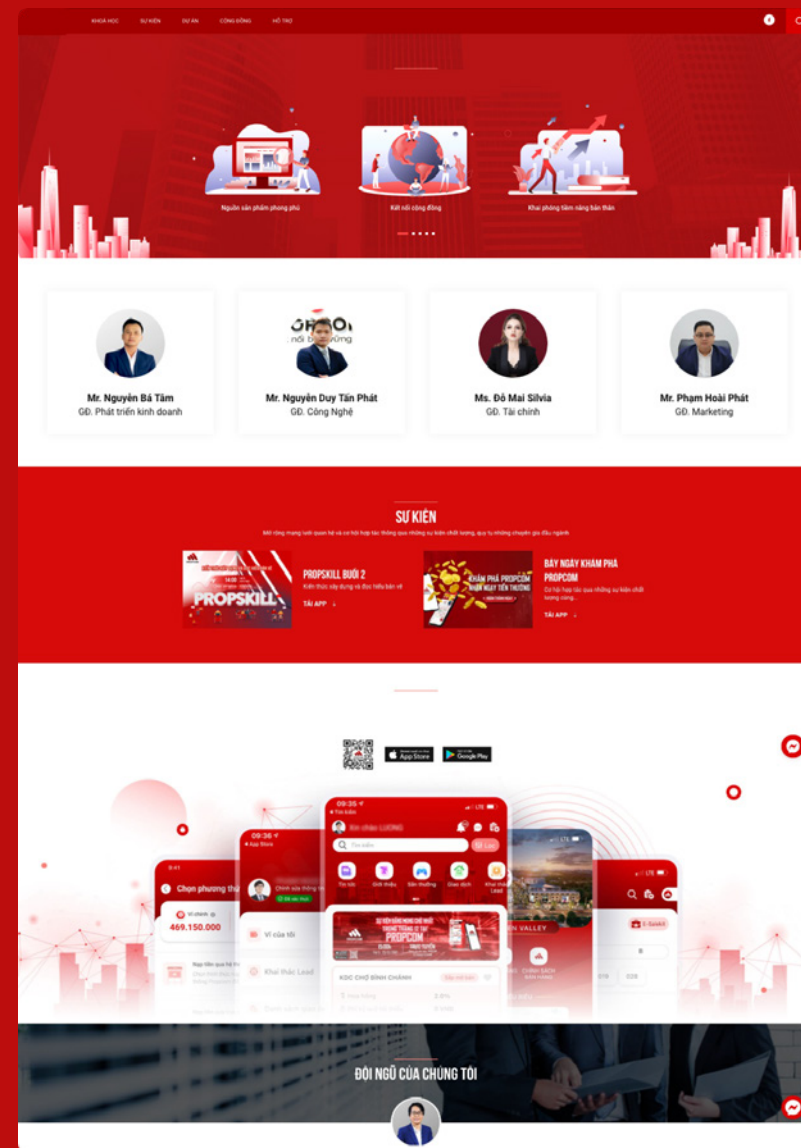


## Newwave Solutions' Roles

- Analyzing
- Management
- Development

## Results & Benefits

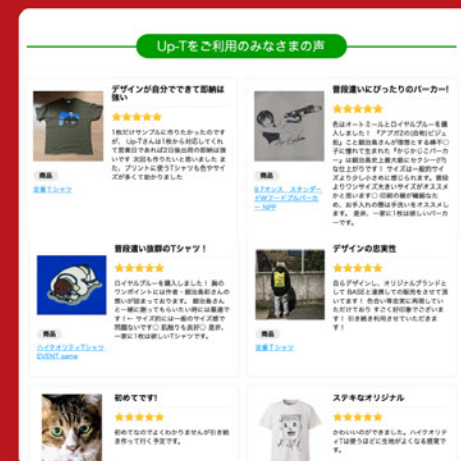
- The program has provided the client with a firm foundation for their core systems so they can continue to build. The software IP is owned by the client and they can reduce their reliance and spend with 3rd party providers as a result.



## Client quote

The amount of time saved has markedly increased, while noise in the system has been reduced. Direct work by Newwave Solutions executives not only expedites completion and enhances the project creatively, but also demonstrates a vested interest in long-term outcomes and business needs.





## 05. A Blockchain PoC Application With Various Functions

A blockchain project where we were responsible for the operation of a blockchain infrastructure, source code and Proof of Capacity (PoC) development. It also involved mining and plotting tool, explorer, web wallet, mobile wallet, etc.

### Service

Software Development

### Industry

Ecommerce

### Platform

Web & Mobile  
(Android / iOS)

### Technology Stacks & Dependencies



### Type

Native App

### App Features

- Node: A file built to act as a node in the blockchain network.
- Web Wallet: A digital wallet on a web platform.
- Mobile Wallet: A digital wallet in a form of a mobile app.
- Scan Web: An explorer that provides an easy way to search for blockchain information.
- Pool: A mining space that allows users to mine cryptocurrency blocks
- Grower: A mining tool.

### Business Challenges

- Our client came to us with a very primitive idea of a blockchain network with low transaction costs based on Proof of Capacity consensus.

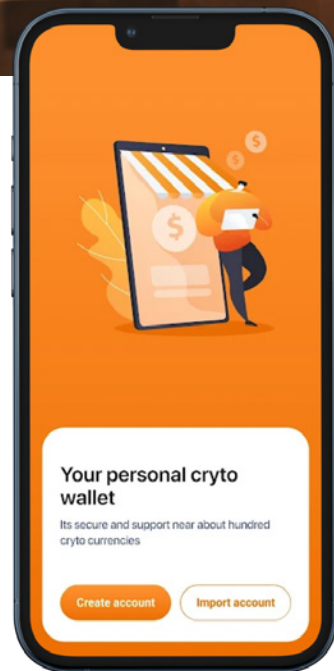
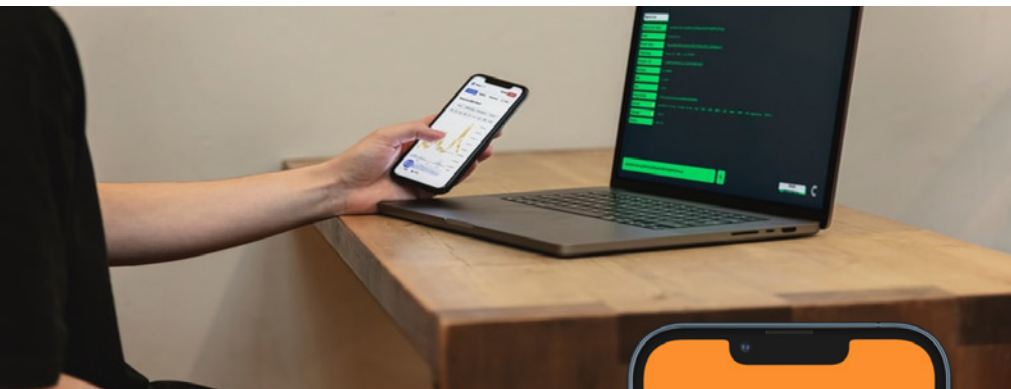
→ We help our client write white papers, implement IDOs and ensure the project stays on schedule.

### Technical Challenges

- Proof of capacity (PoC) is an unfamiliar mechanism algorithm.
- Building and operating a blockchain system is more challenging than other regular systems.

→ We have experienced engineers who can customize the blockchain network, support operation, integration with exchanges and develop services for securely expanding the network.





## Solutions

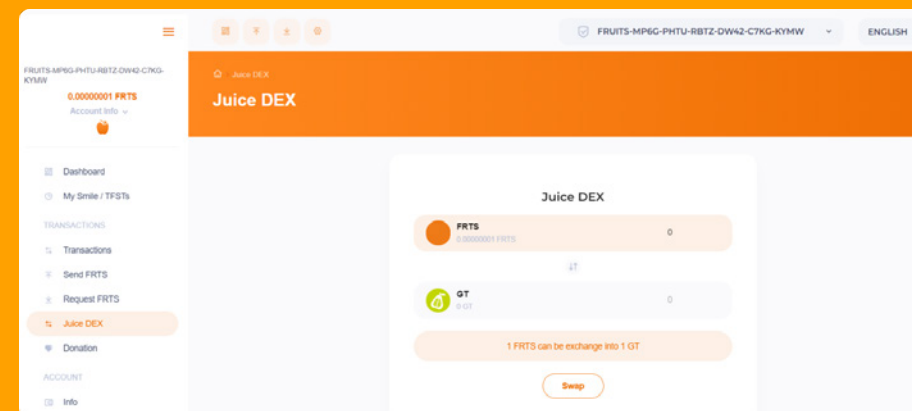
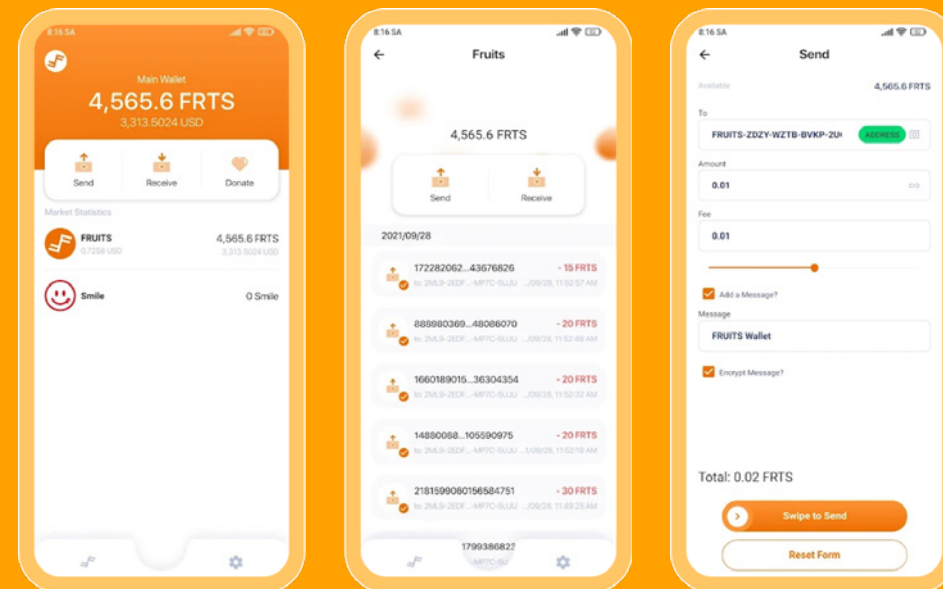
- Technology: Blockchain
- Programming language: Java / PHP / Javascript
- Framework: Angular
- Management Tool: Backlog / Jira
- Management methodology: Kanban / Spiral

## Newwave Solutions' Roles

- Analyzing
- System Design
- Management
- Development
- Test

## Results & Benefits

- The initial POC was rapidly put into production and provided the customer's first consumer facing responsive website that included features such as accepting online consumer payments..



## Client quote

The team played a key role in driving the product's direction, working closely with a large-scale end client directly. Their technical acumen and industry experience allowed them to produce a final product that impressed all involved. They established confidence in their abilities early in the work.





“

2021 marks the 10th birthday of Newwave Solutions as the region's preferred provider in IT outsourcing. Our heartfelt THANK YOU to all of you – our customers, colleagues, and believers - throughout the last decade. Let's follow us and celebrate everything we have accomplished together in 2031.

CEO

Mr. To Quang Duy

## Contact Us

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# Ready to Revolutionize Your Business?

