

VIETNAM GENERAL CONFEDERATION OF LABOR  
TON DUC THANG UNIVERSITY  
FACULTY OF INFORMATION TECHNOLOGY



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**MOBILE APPLICATION FOR  
SIGNING INTERNAL COMPANY  
CONTRACTS**

**INFORMATION TECHNOLOGY  
PROJECT 1**

**COMPUTER SCIENCE**

**HO CHI MINH CITY, 2024**

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## INFORMATION TECHNOLOGY PROJECT

1

Staff guidance  
**HO VAN NAM**

**HO CHI MINH CITY, 2024**

## THANK YOU

I would like to sincerely thank the instructor at the internship company, Mr. Ho Van Nam - who has directly guided and answered questions and problems at work over the past time. Thanks to your enthusiastic and dedicated guidance even though he had a lot of work to do, I was able to complete my internship and this report the best I could.

I sincerely thank the teachers for organizing this subject and taking the time to read the report.

I would also like to wish health and success to the teachers and all businesses that gave me the opportunity to practice.

*City. Ho Chi Minh, day 9 July 2024*

*Author*

*(Sign and write full name)*



*Nguyen Anh Khoa*

## THE WORK IS COMPLETED

### AT TON DUC THANG UNIVERSITY

I hereby declare that this is my own research project and is guided by an employee at the enterprise, Ho Van Nam. The research content and results in this topic are honest and have not been published in any form before. The data in the tables for analysis, comments, and evaluation were collected by the author from other sources. are clearly stated in the reference section.

In addition, the report also uses a number of comments, assessments as well as data from other authors and other organizations, all with citations and source notes.

**If I detect any fraud, I will take full responsibility for the content of my report .** Ton Duc Thang University is not involved in copyright violations caused by me during the implementation process (if any).

*City. Ho Chi Minh, July 9, 2024*

*Author*

*(Sign and write full name)*

A handwritten signature in black ink, appearing to read "Khoa", with a horizontal line extending to the right from the end of the signature.

*Nguyen Anh Khoa*

## SUMMARY

The internal contract signing application on the phone is designed to help businesses automate the contract signing process, ensuring convenience, security and efficiency. By using React Native technology, apps can work simultaneously on both iOS and Android platforms, providing flexibility and saving on development costs.

The app provides key features such as logging in with Microsoft Azure authentication, selecting and uploading contract documents as PDF, sending signing requests to stakeholders via email, and tracking signing status. Users can easily select documents from their device, preview documents, and add digital signatures or stamps directly on the app.

React Native and Expo Go were chosen as the main development platform because of its ability to create smooth, high-performance mobile applications and the ability to share source code between iOS and Android platforms. Besides, integrating Microsoft Azure AD helps ensure data security and effective user management. Other support libraries such as Document Picker and PDF Viewer are also used to enhance user experience.

The internal contract signing application not only helps businesses save time and costs during the contract signing process but also ensures security and transparency. With the development of technology and digital transformation trends, applying this application into practice is an important step forward, helping businesses improve work performance and increase competition in the market.

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## **LIST OF TERMS**

Terms	Define	Note
AVN	Ajinomoto Vietnam Company	
Employees	Officials and employees of AVN company	
SRA	eSaleReports Approval - Module for approving sales reports	
Request	Suggestion	
User	System users	
Signer	Approvers/electronic signatures	
Applicant	Request creator	

# CHƯƠNG 1. INTRODUCTION AND TOPIC OVERVIEW

## 1.1 Reason for choosing the topic

As an intern for react native develop position at OPUS SOLUTION corporate IT department – an enterprise solutions company focused on Microsoft technologies and cloud computing solutions. This topic has great appeal to me and I have more complete professional support from the instructors.

In the modern economic context, signing contracts is an indispensable part of every enterprise's business activities. However, the traditional process often takes a lot of time and effort, and is prone to errors. Developing a mobile application that helps automate this process will bring greater efficiency, reduce errors and save time for businesses.

The mobile application market is constantly expanding, and the demand for solutions to digitalize workflows is increasing. Choosing this topic not only helps students grasp modern technologies such as React Native and Microsoft Azure, but also creates a product with high practical value, meeting the actual needs of businesses. This is a good opportunity for students to practice their skills and contribute to the development of technology and business.

## 1.2 Objectives of implementing the topic

### *Overall objectives:*

Develop a cross-platform mobile application (iOS and Android) using React Native technology, to automate the business's internal contract signing process, ensuring convenience, safety, and efficiency .

#### *1. Build a secure authentication system:*

- Integrate Microsoft Azure AD to ensure only authorized users can access and sign contracts.
- Ensure the user login and management process is performed securely and conveniently.

**2. *Develop contract document management features:***

- Create an interface that allows users to easily select and upload contract documents as PDFs from their devices.
- Integrated document preview function, allowing users to check the content before signing.

**3. *Deploy contract signing function:***

- Provides tools for users to add digital signatures or stamps to contract documents.
- Create a process for sending signing requests to relevant parties via email, and track the signing status of each contract.

**4. *Ensure smooth user experience:***

- Friendly user interface design, easy to use, and responsive on both iOS and Android platforms.
- Optimize application performance to ensure fast and smooth document processing and signing.

***Personal development goals******Practice programming skills and develop mobile applications:***

- Develop the ability to work with new tools and technologies.
- Improve problem solving and logical thinking skills.

***Develop teamwork and project management skills:***

- Work with the development team to complete the project on schedule and with high quality.
- Learn how to manage projects from planning, dividing work, to tracking progress and checking product quality.

## CHƯƠNG 2. MOBILE APPLICATION DEVELOPMENT AT ENTERPRISES

### **2.1 Overview of mobile application development**

#### ***2.1.1 Definition of mobile application development:***

Mobile application development is the process of creating application software that works on mobile devices such as smartphones, tablets and other handheld devices. This process includes designing, building, testing, and deploying applications to meet specific user or business requirements.

#### ***Key Aspects of Mobile Application Development***

##### ***1. User interface design (UI/UX):***

- User Interface (UI): Focus on creating beautiful, easy-to-use, and user-friendly displays. This includes choosing colors, layouts, images, and other graphic elements.
- User experience (UX): Ensure users have a smooth and efficient experience when using the app. This involves optimizing the flow of interactions, minimizing the number of steps needed to complete tasks and providing quick feedback to users.

##### ***2. Application development:***

- Programming: Use programming languages and development tools to write application source code. Popular languages for mobile app development include Java, Kotlin (for Android), Swift (for iOS), and JavaScript with frameworks like React Native for cross-platform development.
- Integrate APIs and services: Connect your app to external services such as databases, cloud services, and third-party APIs to extend your app's features and capabilities.

### ***3. Testing and optimization:***

- Functional testing: Make sure all app features work as expected across different devices and operating systems.
- Performance testing: Evaluates the speed and smoothness of the application, ensuring that the application performs well under different load conditions.
- Security testing: Protects user data and ensures that the application is free of security vulnerabilities.

### ***4. Deployment and distribution:***

- Release on app stores: Publish applications to distribution platforms such as Google Play Store for Android and Apple App Store for iOS so users can download and install.
- Update and maintenance: Continuously update the application to fix errors, improve features and ensure compatibility with new operating system versions.

#### ***2.1.2 The importance of mobile applications in businesses:***

Mobile applications play an important role in a business's development strategy, bringing many outstanding benefits compared to traditional websites. With flexible access, increased interaction, high performance, and synchronization capabilities, mobile applications help businesses improve customer experience, increase operational efficiency and expand business markets.

##### ***1. Convenience and Continuous Access***

Mobile applications provide the ability to access and use business services continuously, anytime, anywhere, superior to traditional websites. Users can easily open the app on their smartphone or tablet to make transactions, check information, or interact with businesses without having to open a web browser and visit a URL.

## ***2. Increase Customer Interaction and Engagement***

Mobile applications allow businesses to interact directly with customers through features such as push notifications, reminders, and personalized user experiences. Push notifications help businesses send important information, promotions, or product updates immediately to customers, helping to increase engagement and interaction.

## ***3. Better Performance and Speed***

Compared to websites, mobile applications often have better performance and response speed because they are optimally designed for mobile devices and use pre-installed components. This improves user experience, reduces wait times and increases customer satisfaction.

## ***4. Offline Usability***

One of the great advantages of mobile applications is the ability to work without an internet connection. Users can access and use some app features, view previously stored information, and even perform certain operations offline. This is very useful for businesses that want to provide continuous service without being interrupted by network connection problems.

## ***5. Synchronization and Integration***

Modern mobile applications are often designed to synchronize data with other enterprise systems, including customer management (CRM) systems, human relationship management (HRM) systems, and other business systems. cloud service. This synchronization helps ensure that all information is continuously and consistently updated across all platforms, from mobile applications to websites and internal business systems.

## 2.2 Developing a Practical Mobile System at Enterprise:

### *1. Determine Requirements and Objectives*

First, businesses need to clearly define the requirements and goals of the mobile system. This includes:

- Needs analysis: Find out the needs of users and businesses. Identify the features needed and the problems that need to be solved.
- Set goals: Identify specific goals that the mobile system needs to achieve, such as increasing customer engagement, improving work efficiency, or improving internal processes.

### *2. Development Planning*

After determining requirements and goals, businesses need to make a detailed plan for the development process:

- Project planning: Set timelines, divide work, and identify required resources.
- Technology selection: Choose the right technologies and tools, such as React Native for cross-platform development, Microsoft Azure for user authentication and management, and other supporting APIs.

### *3. System Design*

System design includes creating models and user interfaces:

- Architectural design: Build the system architecture, including both server side and client side. Ensure security, scalability and stability of the system.
- User interface design: Create friendly, easy-to-use prototypes and user interfaces (UI/UX).

### *4. Development and Integration*

The development and integration process includes:

- Source code development: Programming system features according to plan. Ensure compliance with source code standards and testing procedures.
- System integration: Connect mobile applications to existing business systems, such as CRM, ERP, and cloud services.

## ***5. Testing and Quality Assurance***

Testing is an important step to ensure the system operates stably and effectively:

- Functional testing: Make sure all features work as expected.
- Performance testing: Evaluate the speed and load capacity of the system.
- Security testing: Make sure the system has no security vulnerabilities and user data is protected.

## ***6. Deployment and Training***

After testing and quality assurance, the system is ready for deployment:

- Deployment: Install and configure the system on the production environment. Make sure every component works smoothly.
- Training: Organize training sessions for employees and end users so they can use the system effectively.

## ***7. Maintenance and Upgrades***

After deployment, the system needs to be regularly maintained and upgraded:

- Maintenance: Solve technical problems and ensure the system operates stably.
- Upgrade: Update the system with new and improved features based on user feedback and business needs.

## CHƯƠNG 3. HOW TO DEPLOY MOBILE PROJECTS WITH REACT NATIVE TECHNOLOGY

### **3.1 Introduction to React Native:**

React Native is an open source framework developed by Facebook that allows building mobile applications using JavaScript and React. With React Native, developers can create high-performance apps and near-native user experiences on both iOS and Android platforms using the same source code.

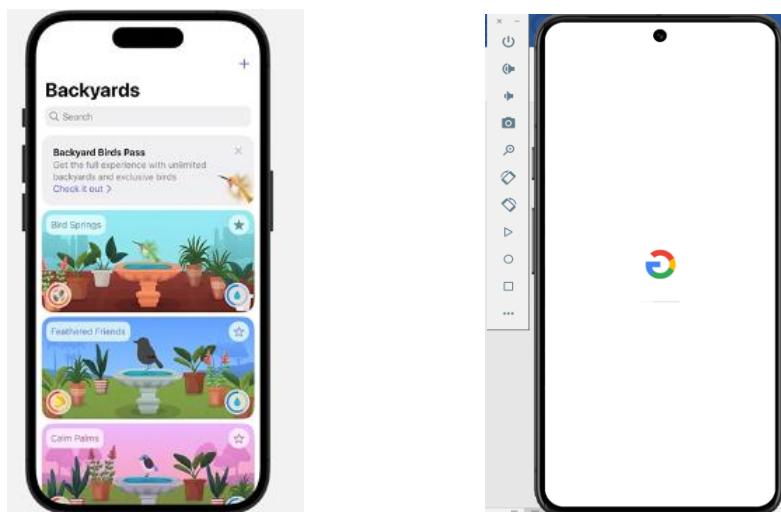
#### ***3.1.1 Basic steps for effective mobile project development with React Native and Chat App DEMO project***

- ***Prepare the Development Environment***

Install Node.js: React Native requires Node.js to manage packages and dependencies.

Install React Native CLI: This command-line tool helps create and manage React Native projects.

Install Android Studio and Xcode: To run apps on Android and iOS, Android Studio and Xcode are required for development tools and emulators.



- ***Project Folder Structure***

/android: Contains source code and configuration for Android.

/ios: Contains source code and configuration for iOS.

/src: Contains JavaScript source code, including React components, services, and configuration.

- ***User Interface (UI) Development***

Use React Native components: Components like View, Text, Image, ScrollView, TextInput help build user interfaces easily and effectively.

```
1 import React from 'react';
2 import { View, Text, TextInput, Button } from 'react-native';
3
4 const App = () =>
5   <View style={{ padding: 20 }}>
6     <Text style={{ fontsize: 24 }}>Hello, React Native!</Text>
7     <TextInput style={{ height: 40, borderColor: 'gray', borderwidth: 1 }} placeholder="Type here..." />
8     <Button title="Click me" onPress={() => alert('Button pressed!')} />
9   </View>
10 );
11
12 export default App;
```



Developing mobile applications with React Native helps businesses take advantage of cross-platform development, saving costs and time. By following a standard process from environment preparation, interface development, state management, API integration, testing, and deployment, businesses can create high-quality applications that meet their needs, user needs and improve operational efficiency.

- ***The DEMO Chat App project proposed by the mobile development team implements:***

A demo chat application using Firebase was developed to demonstrate the ability to build mobile applications quickly and efficiently. Firebase provides a powerful platform with services like Firebase Authentication for user management, Firestore for real-time message storage, and Firebase Storage for storing multimedia files. Start by setting up Firebase in your React Native project, then implement user registration and login features, Firestore integration to create chat rooms, and store messages

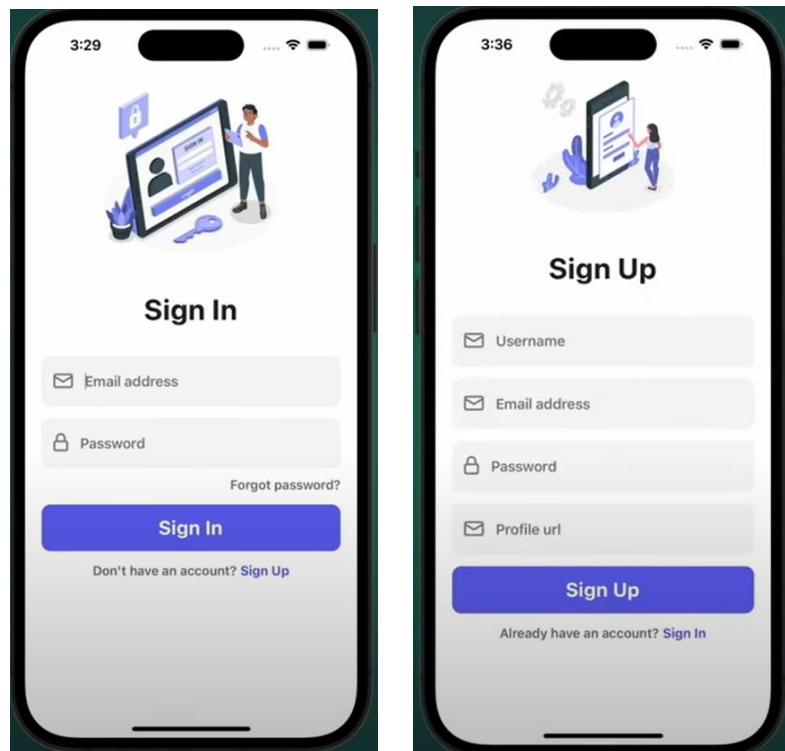




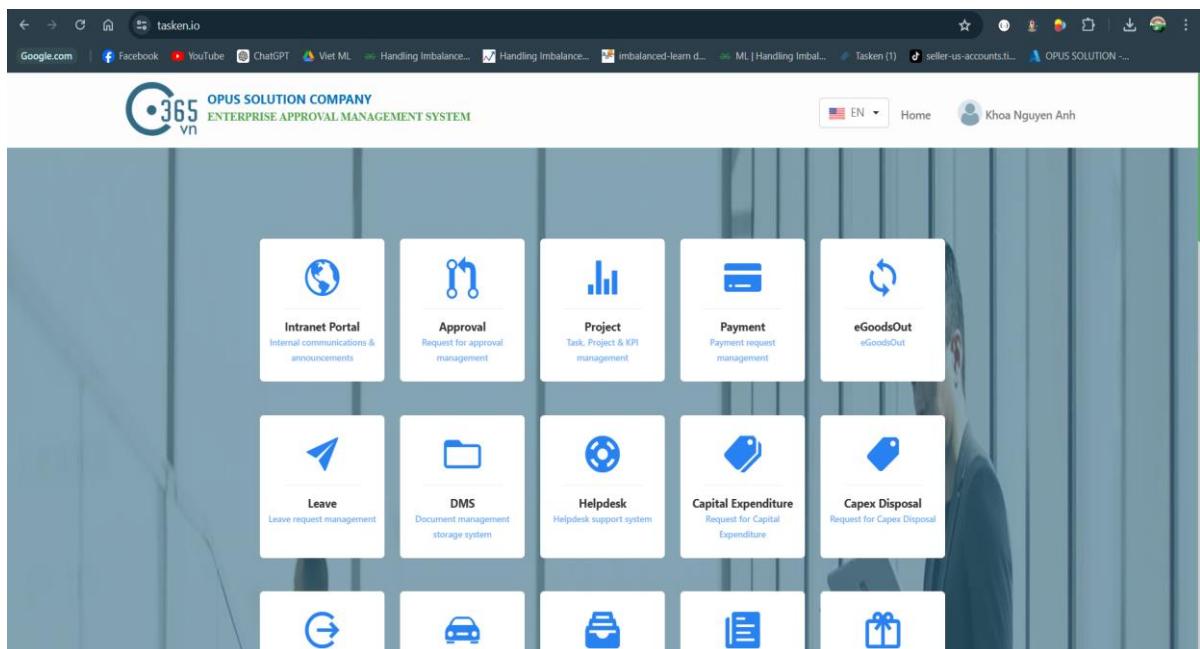
Image 1. Chat App screens

(default)	users	
+ Start collection	+ Add document	+ Start collection
rooms	6VDSzbamtKSuUKt1QaMBBNGFph02	+ Add field
users	7ACMkvsn0YczzrE8JykgYvJgk6M2	profileUrl: "https://png.pngtree.com/png-clipart/20190920/original/pngtree-user-flat-character-avatar-png-png-image_4650324.jpg"
	9sCxaw10zhMJBj2nqE18GgjKXhy2	userId: "t4Wwzlg3x6h1eUomLshd2xRiTJ2"
	AVZJcp7VY2UeA378Gx0GpSa4Xhs1	username: "khoa"
	KJ0DrR4FtxPytwXZK3hiQ7KzyTg1	
	UidwujgVdmV2kwOYN5ZTePYb50s2	
	t4Wwzlg3x6h1eUomLshd2xRiTtJ2	

Image 2. Firebase hosting

### 3.1.2 Steps for practical application of internship businesses:

To convert from an existing website like Tasken.io to a mobile application, businesses need to carry out a detailed and rigorous multi-step process. Below are the specific steps from using the company's Tasken.io website to developing and deploying mobile applications.



eSalesReport Approval									
Search		Draft	Waiting for Approval	Signed	Rejected				
Requests									
All requests									
Request code	Type	Unit	Depot	Date of report	Created By	Created Date	Processing By		
167-eSR-COT-2024	Báo cáo bán hàng	Sub CotecCons	HÀI PHÒNG 5	09/07/2024	Chi Vo Thi Que	09/07/2024			
064-eSR-HBCONS-2024	Báo cáo bán hàng	Sub HoaBinh Cons	HÀI PHÒNG 3	09/07/2024	Uyen Nguyen Ngoc Bao	09/07/2024	Vuong Luc Tan		
056-eSR-HBCONS-2024	Báo cáo bán hàng	Sub HoaBinh Cons	HÀI PHÒNG 3	13/06/2024	Ban Lu Minh	08/07/2024			
161-eSR-COT-2024	Báo cáo bán hàng	Sub CotecCons	HÀI PHÒNG 5	08/07/2024	Ban Lu Minh	08/07/2024	Bao Nguyen Thanh		
063-eSR-HBCONS-2024	Báo cáo bán hàng	Sub HoaBinh Cons	HÀI PHÒNG 3	02/07/2024	Uyen Nguyen Ngoc Bao	02/07/2024			
009-eSR--2024	Báo cáo bán hàng	MMB HR Tuyển Dụng Lập trình C#	Bình Định	02/07/2024	Bao Nguyen Thanh	02/07/2024	BU Test 5		

The image displays two screenshots of the Tasken.io website, illustrating the eSalesReport Approval process.

**Screenshot 1 (Top):** Shows the 'eSalesReport Approval' page. The left sidebar includes a search bar and navigation options: 'Requests' (highlighted), 'All requests', 'Sent to me', 'Sent to others', 'Share with me', 'Status', and 'Setting'. The main form is titled 'SALES REPORT APPROVAL' and contains fields for 'Applicant' (Khoa Nguyen Anh), 'Department / Branch' (Intern 2024), 'Section / Region' (Select the section), 'Depot' (Enter the depot), 'Unit' (Select the unit), 'Request Date' (09/07/2024), 'Type of report' (Báo cáo bán hàng), 'Date of report' (09/07/2024), 'Report printing date' (09/07/2024), and a 'Reason for printing report on different date' section with three checkboxes. A note field and a 'Save draft' button are also present.

**Screenshot 2 (Bottom):** Shows the same 'eSalesReport Approval' page, but with a user profile overlay on the right. The profile shows 'Khoa Nguyen Anh' with a placeholder icon. Below the profile, sections include 'Personal' (Login: ngkhoa2708joy@gmail.com, Employee Number: (N/A), Full Name: Khoa Nguyen Anh, Email: ngkhoa2708joy@gmail.com, City: Hồ Chí Minh, Country: Việt Nam), 'Company' (Job Title: (N/A), Company: (N/A), Department: (N/A), Sections/Teams: (N/A), Line Manager: (N/A), Employee Type: (N/A)), and 'Other' (Language: en-US, Currency: USD, City: Hồ Chí Minh, Province / state: (N/A)). The bottom of both screenshots shows the footer: 'Tasken V2 ©2023 Created by OPUS Solution' and links for 'US', 'Website', 'Terms', and 'About'.

Image 3. Tasken.io website screens

## Step 1: Requirements Analysis and Planning

### *Requirements Analysis:*

- Evaluate Tasken.io's current functionality: Determine what key functions and data need to be converted to the mobile app.

- User Interviews: Gather information about the specific requirements and desires of current and potential users of the mobile app.

#### ***Project planning:***

- Set goals: Identify specific mobile app goals such as improving user experience, enhancing security, or increasing customer engagement.
- Division of work: Identify specific tasks and assign tasks to each member of the development team.

### **Step 2: User Interface Design (UI/UX)**

#### ***Create Wireframes and Mockups:***

- Wireframes: Defines the basic layout of the screens in the application.
- Mockups: Design detailed user interfaces with colors, images, and interactive components.

#### ***User Experience (UX) Design:***

- Interactive flow: Create interactive flow diagrams to ensure users have a smooth and logical experience.
- Design guidelines: Make sure the interface adheres to user-friendly and mobile design guidelines.

### **Step 3: Prepare the Development Environment**

#### ***Install Development Tools:***

- Node.js and React Native CLI: Ensure that all team members have the necessary tools installed and configured correctly.
- Android Studio and Xcode: Prepare development tools and emulators for both Android and iOS.
- Setting up the Source Code Repository:

- Git Repository: Create a source code repository on GitHub or GitLab to manage source code and versions.

## **Step 4: Application Development**

### ***Establishing Project Structure:***

- Initialize a React Native project: Use React Native CLI to create a new project and appropriate directory structure.
- Integrate necessary libraries: Install and configure libraries such as Redux, React Navigation, and Axios.

### ***Development Key Features:***

- Login and authentication: Integrate Microsoft Azure AD for login management and security.
- Document management: Build functions to upload, preview, and sign PDF documents.
- Send notifications: Use Firebase Cloud Messaging (FCM) to send notifications to users.

### ***Connecting to Backend API:***

- Build the necessary APIs: Ensure that the mobile app can interact with Tasken.io's database and backend services.
- Call APIs: Use Axios or Fetch to call APIs and process returned data.

## **Step 5: Testing and Quality Assurance**

### ***Functional Testing:***

- Write unit tests: Make sure each small component of the application works properly.
- Integration tests: Make sure different components work together smoothly.

### ***Performance and Security Testing:***

- Performance testing: Make sure the application runs smoothly and responds quickly.
- Security testing: Make sure there are no security vulnerabilities and user data is safely protected.

## CHƯƠNG 4. ESALEREPORT SYSTEM

### 4.1 System purpose:

The Sales Report Approval module - eSaleReports Approval (SRA) helps approve sales report contracts of SA of AVN company. The report will automatically have the approval participant's electronic signature added.

The platform is based on OPUS's standard Tasken system, using platform technologies including Sharepoint, Azure, AngularJS. Supports both English & Vietnamese languages. The users are employees of AVN company.

#### *4.1.1 System functions and workflow:*

The eSaleReports subsystem focuses on the following main functions:

- Create requests
- Send request to approver.
- Approve/reject.
- Electronically sign & automatically add signing/rejection information to the PDF report file.
- Track request status (who is approving)
- Export report list of requests as Excel file.

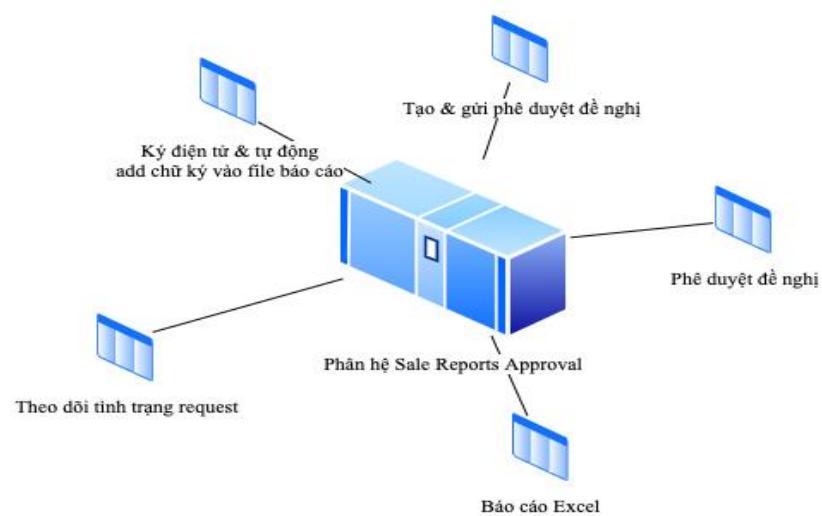


Image 4. Reference model of system functionality

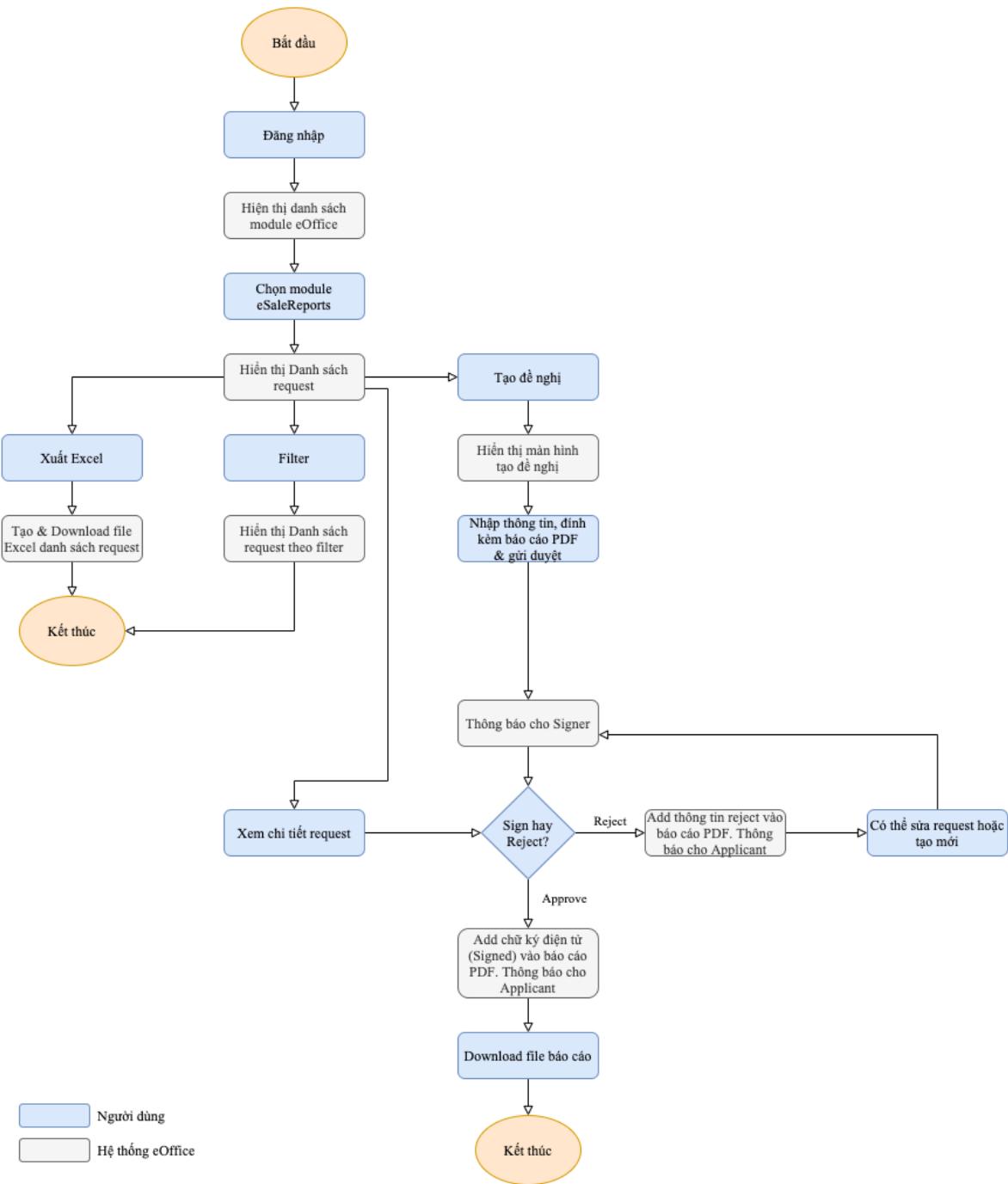


Image 5. Workflow

*View Request list:*

Step	Implementer	Description of general requirements
first	User	Successfully accessed & logged in to the eOffice system.
2	System	Displays a list of eOffice modules.
3	User	Access the eSaleReports module.
4	System	Displays a list of all eSaleReports requests that the user has access to.
5	User	Users can perform the following tasks: -Create a new request.-Display a list of requests according to desired conditions using Filter or Side bar.-Export request list to Excel.-View request details.

*Screen:*

The screenshot shows the eSaleReports module interface. The top navigation bar includes the eOffice logo and a search bar. On the left, there's a sidebar with 'Đề nghị' (Requests) and 'Tình trạng' (Status) dropdown menus. The main content area displays a table of requests with columns: Mã đề nghị (Request ID), Loại báo cáo (Report Type), Kho (Warehouse), Unit (Đội), Ngày (của) báo cáo (Report Date), Người tạo (Created By), Ngày tạo (Created Date), and Đang xử lý bởi (Currently handled by). The table lists several entries, such as LBF-2022-0010 through BHA-2022-0123, each with different details like report type (Báo cáo bán hàng), warehouse (SAI GON 1), unit (TT - SAI GON 1.1), and creation date (e.g., 20/09/2022).

Image 6. request list

## Create request

Step	Implementer	Description of general requirements
first	User	Log in to the eOffice system successfully. Access the eSaleReports module. Click the Create New button.
2	System	Display the screen to create a new <b>request</b> .
3	User	Fill in all required information & attach the PDF report file. Click the Submit button to send the request. If required fields are not entered, the system will report an error and the request will not be created.
4	System	The system sends notifications and emails to <b>Signer</b> about the request that needs approval (see also notification email template)

## Screen

Image 7. Request creation screen

*View details & Approve (Sign electronically) request*

Step	Implementer	Description of general requirements
first	User	To approve the request, users need to access the request details. There are two ways: * Click on the link in the notification email. * Click on the notification in the system notification. * On the request list screen, click directly To open the request, you need to.
2	User	The Signer's request detail screen when it is time to approve will have a button: * <b>Sign</b> : sign the request, the system will transfer the request to the next signer. * <b>Reject</b> : refuse the request to change the status to Rejected.
3	System	*In case of <b>Reject</b> : the system sends a notification to the Applicant, the Applicant can revise the request and re-submit, the request will be sent for approval from the beginning. *In case of <b>Sign</b> : The system sends a notification and email to the next Signer in the request's approval tree. If all Signers have signed, the request status changes to <b>Signed</b> .  In both cases, the system adds digital signature information to the PDF report file.

## Screen

**eOffice**

Mã đề nghị: H1-2022-003  
Tình trạng: **Dang phê duyệt**

**SALES REPORT APPROVAL**

Người đề nghị	Phòng ban	Bộ phận
Trần Văn A	AVN_South_Branch	South 1 Sales Region
Kho	Đơn vị	Ngày tạo
SAI GON 1	TT - SAI GON 1.1	20/08/2022
Loại báo cáo	Ngày (của) báo cáo	Ngày in báo cáo
Báo cáo bán hàng theo ngày	20/08/2022	20/08/2022

Lý do in báo cáo khác ngày

SRO hóa đơn

Hệ thống chưa cấp phát số hóa đơn

Cập nhật lại Bảng THTM&DTBH

Lỗi hệ thống

Bất khả kháng (thiên tai, cúp điện,...)

Đội đi công tác về muộn, NVHTBH không kịp in trong ngày

Other:

Ghi chú:

Báo cáo trình ký

[reportASC.pdf](#)

Chứng từ tham khảo

[danh sach.docx](#)  
[hinh\\_thiet\\_bi.png](#)

Người ký

Nhân viên 1	Nhân viên 2	Nhân viên hỗ trợ bán hàng	Người quản lý
14/03/2024 23:28 <b>Signed</b> Nguyễn Hùng B	14/03/2024 23:28 <b>Signed</b> Nguyễn Hùng C	14/03/2024 23:28 <b>Signed</b> Nguyễn Hùng D	Nguyễn Hùng E

Comments

Write a comment...

Add attachment (Maximum 20MB per file)

Trần Văn A 10/08/2022 10:12  
Đã gửi đề nghị

Huỳnh Văn B 10/08/2022 10:35  
Còn thiếu thông tin nhé!

Trần Văn A 10/08/2022 10:12  
Em đã bổ sung file đính kèm

Huỳnh Văn B 10/08/2022 10:35   
Đề nghị đã được duyệt

EN

Image 8. Request details

### ***Secondary stream***

#### *Filter & export to Excel*

Step	Implementer	Description of general requirements
first	User	Log in to the eOffice system successfully. Access the eSaleReports module.
2	System	Displays a list of all eSaleReports requests that the user has access to.
3	User	Pressing the Filter button on the toolbar in the right corner of the screen will display parameters for the user to choose from (see screen below). User clicks Apply to apply the options. In addition, the Side bar on the left allows users to view a list of requests by: -Sent to me: requests sent to the user (user is an approver or signer) -Sent to others: requests created by users. -Shared with me: requests to people Another share for the user. Or according to the Status <b>of</b> the request.
4	System	Displays a list of requests according to the conditions the user has selected. Users can combine with the Excel Export function to export the list as desired.
5	User	Click the Export Excel button in the toolbar on the right corner of the screen.
6	System	Create a file and download to the user's computer an excel file listing all requests on the screen. (see also Excel file templates)

*Screen*

Lọc

Áp dụng   Xóa

Mã đề nghị  
Enter text

Phòng ban  
All

Bộ phận  
All

Kho  
All

Đơn vị  
All

Ngày (của) báo cáo

Từ ngày 07/08/2022

Đến ngày 07/08/2022

Ngày tạo

Từ ngày 07/08/2022

Đến ngày 07/08/2022

Người tạo

Tất cả

Trạng thái

Tất cả

This image shows a 'Dialog Filter' window titled 'Lọc'. It contains several input fields and dropdown menus for filtering data. At the top right are 'Áp dụng' (Apply) and 'Xóa' (Delete) buttons. The fields include: 'Mã đề nghị' (Input text), 'Phòng ban' (All), 'Bộ phận' (All), 'Kho' (All), 'Đơn vị' (All), 'Ngày (của) báo cáo' (Date range from 07/08/2022 to 07/08/2022), 'Ngày tạo' (Date range from 07/08/2022 to 07/08/2022), 'Người tạo' (All), and 'Trạng thái' (All). Each field has a small calendar icon next to the date input.

Image 9. Dialog Filter

#### 4.1.2 General system:

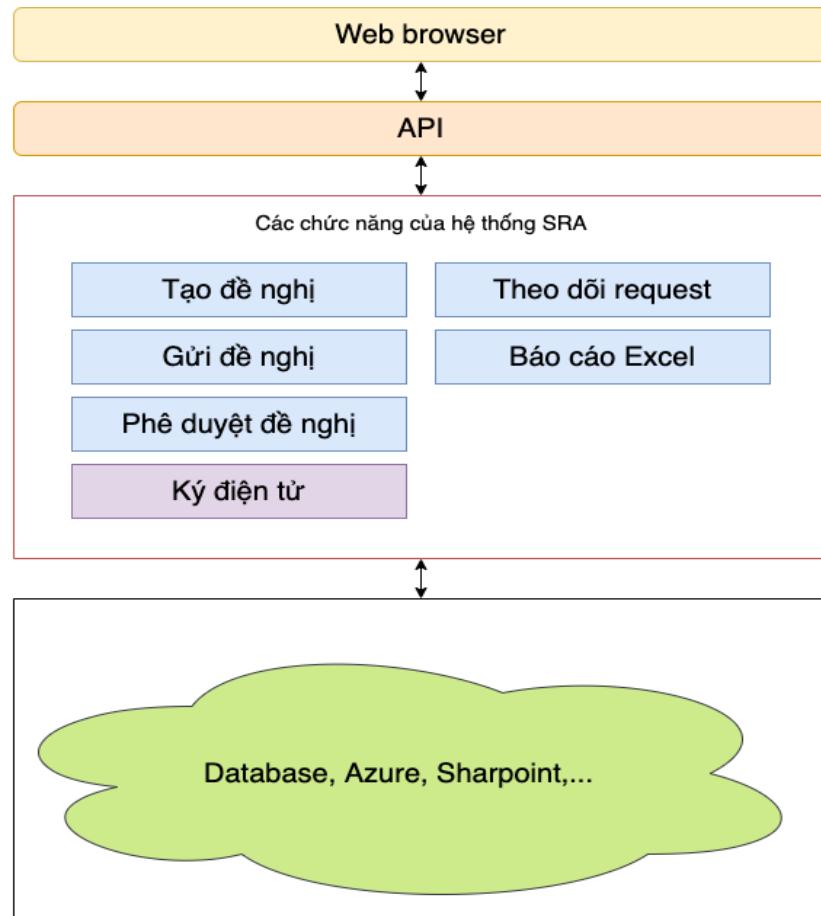


Image 10. Overview of SRA system (Reference)

#### 4.1.3 General business model

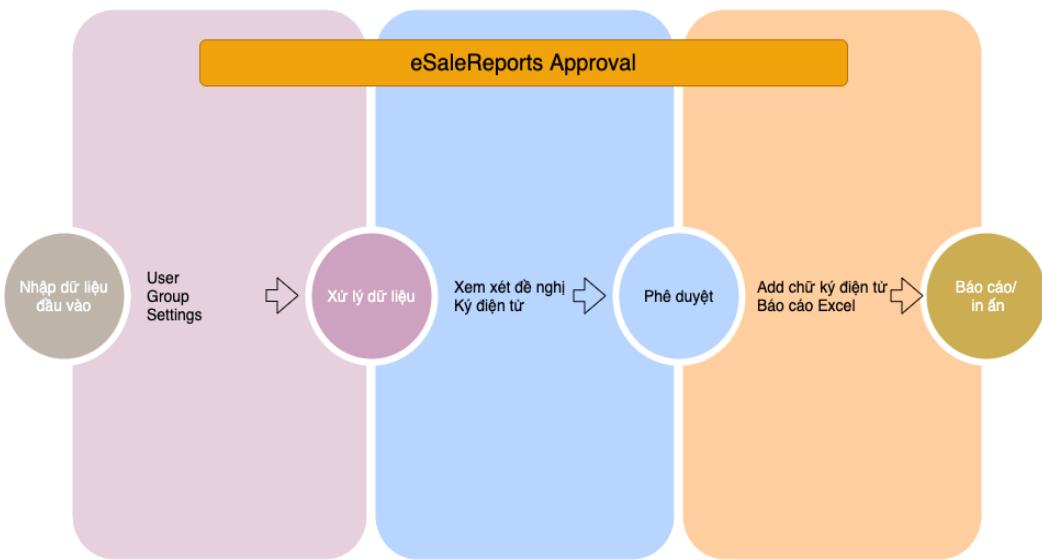
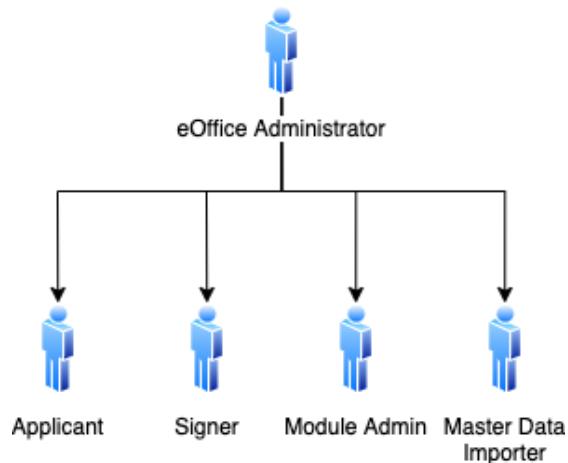


Image 11. Overview of business model



In the model above:

- **Administrator** : An administrator of the eOffice system with access to configuration functions, including delegating rights to the document approval subsystem and other configurations of the subsystem.
- **Applicant** : Is the person who creates the request in the system and sends it for approval. All users have this right.

- **Signer** : The person who has the right to approve a request when it is his turn to approve. Users have this permission when specified in each request when created.
- **Admin** : Viewer of all requests in the module & performs Approver's approval functions. Users have this right when assigned in the Settings section of the subsystem.
- **Master Data Importer** : The person who has the right to access and operate the Master Data import function to serve this module.

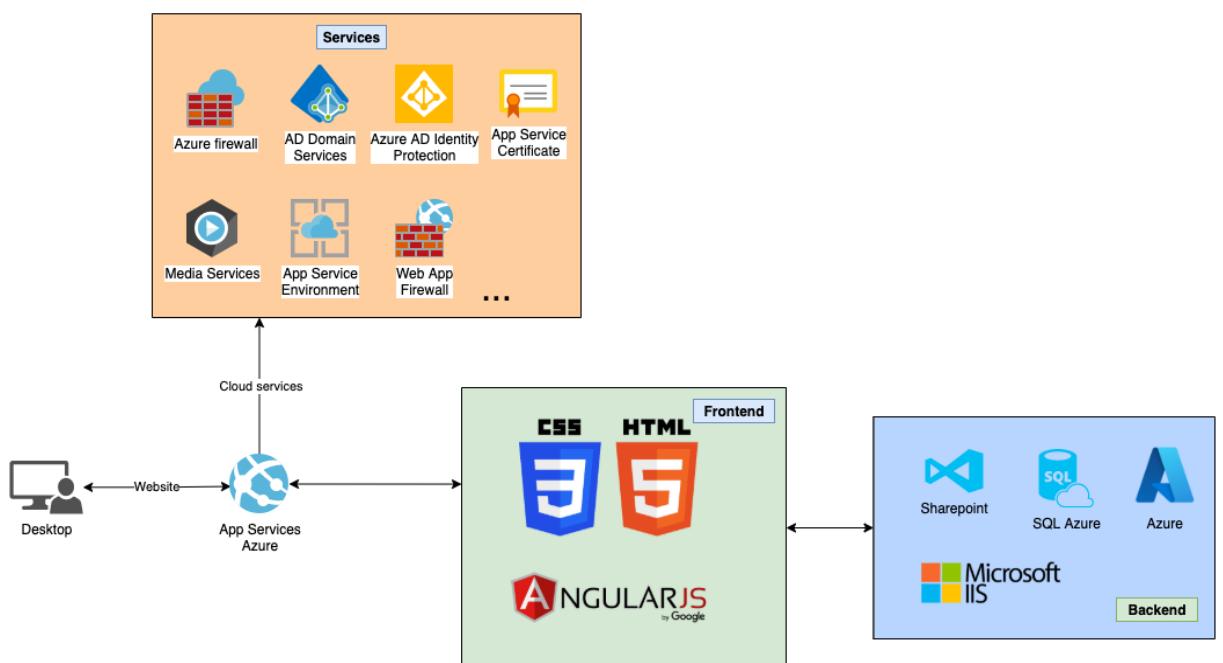


Image 12. Reference architecture

## CHƯƠNG 5. ESALEREPORT SYSTEM MOBILE VERSION

### 5.1 Introduce:

The eSaleReport system is a tool that helps businesses manage and track sales and contract reports effectively. The mobile version of this system was developed to create favorable conditions for users to access and manage data remotely, directly from mobile devices. In particular, the application supports digital contract signing, helping to save time and increase flexibility for businesses.

#### 5.1.1 *User interface:*

- Login page: User enters account information to access the system.
- Home page: Displays overview reports on sales, orders, and business indicators.
- Contract management page: Allows users to create, edit, and sign digital contracts.

#### 5.1.2 *Main function:*

- Account management: Log in, log out, and manage user information.
- View reports: Provides detailed reports on sales, orders, and business performance.
- Signing digital contracts: Supports signing contracts directly on mobile devices using digital signatures or electronic stamps.
- Notifications: Send notifications to users about important activities such as new contracts, sales reports, or other important events.

### 5.2 Technology used:

#### *Fontend:*

React Native: Used to develop user interfaces for mobile applications, ensuring consistency and high performance on both iOS and Android platforms.

### ***Backend***

Node.js and Express.js: Handle requests from mobile apps and manage data.

MongoDB: Stores data about users, contracts, and reports.

## **Microsoft Azure integration in eSaleReport**

- ***Sign in and authenticate***

Azure Active Directory (Azure AD): Azure AD provides authentication and identity management services, helping to ensure that only authorized users can access the eSaleReport application. Users can log in to the app through their Microsoft account, providing convenience and high security.

- ***Document storage and management***

Azure Blob Storage: Azure Blob Storage is used to store documents such as digital contracts, sales reports, and other business documents. This service ensures that data is stored securely, scalable, and easily accessible from anywhere.

**Azure Files:** Azure Files provides a shared file system, allowing development team members and end users to access and work on essential documents without friction.

**Azure Logic Apps:** Azure Logic Apps helps automate workflows and integrate different services. Within eSaleReport, Logic Apps can be used to automate processes such as sending notifications when new contracts become available, synchronizing data between different systems, and managing approval workflows.

The screenshot shows the Microsoft Azure portal interface for managing app registrations. The left sidebar has a 'Manage' section with various options like Users, Groups, External Identities, etc., and 'App registrations' is selected. The main area shows a table of registered applications under the 'All applications' tab. The table includes columns for Application ID, Display Name, Created On, Last Modified On, and Status. Applications listed include 'Login\_Test', 'My ASP.NET App', 'P2P Server', 'SharePoint Online Client Extensibility Web Application Principal', 'SharePoint Online Client Extensibility Web Application Principal Helper', 'Tasken', 'Tasken AQUA eOffice', 'Tasken Golden eOffice', 'Tasken HungHau eOffice', and 'Tasken\_Create\_Task'. Some applications are marked as 'Current' while others are 'Expired'.

Application ID	Display Name	Created On	Last Modified On	Status
1f0ed5c7-1543-449b-8118-2663cd57892b	Login_Test	7/3/2024	-	-
f0f72467-409b-48dc-8024-7919e79e7ec8	My ASP.NET App	11/27/2018	11/27/2018	Current
02cb3770-3c2c-43f6-8d04-c7ddfbffda85	P2P Server	4/8/2017	-	-
875c231c-89e8-4939-bcf6-cb21921ab0d	SharePoint Online Client Extensibility Web Application Principal	9/24/2018	9/24/2018	Current
de9ee5f7-a0f6-4f55-a1e7-02ad48440295	SharePoint Online Client Extensibility Web Application Principal Helper	4/12/2022	-	-
2fb75217-e2f4-455a-8f2d-105f1cd4c455	Tasken	6/7/2018	-	Expired
39ac73ab-9934-4fed-aa21-69fb8654fc1	Tasken AQUA eOffice	6/19/2019	-	-
1b9d28a2-44e3-49f1-82f1-f93fec67ccb	Tasken Golden eOffice	3/5/2020	-	-
28ae95e2-8478-4d85-ad26-2b9bd4da233d	Tasken HungHau eOffice	8/9/2018	-	-
eea4c751-32ce-406d-8edf-d4ad9a78946a	Tasken_Create_Task	5/17/2023	-	Current

Image 13. App registration of Microsoft Azure

## Operational process

1. Login: User opens the application and enters login information to access the system.
2. View reports: After logging in, users can access business reports and view related metrics in detail.
3. Contract management: Users can create, edit, and view existing contracts.
4. Sign a contract: Users select the contract to sign, then use a digital signature or electronic stamp to complete the contract signing.
5. Notification: The system sends notifications to users when there are new activities or when the contract has been successfully signed.

The mobile version of the eSaleReport system not only helps businesses track business reports conveniently but also supports the signing of digital contracts, contributing to improving work efficiency and saving time for users. Using advanced technologies, the system ensures security, flexibility and ease of use, providing the best user experience.

## **CHƯƠNG 6. EXPERIENCE THE DEVELOPMENT PROCESS WITH THE MOBILE PROJECT TEAM**

### **6.1 Sketching the application via Figma**

***Initialize the Figma project:***

1. Create a new project on Figma.
2. Set up frames for each screen in the application, including the login page, home page, report page and contract page.

***Design the theme:***

1. Login page: Design input fields for username and password, login button.
2. Home page: Arranges main components such as charts, data tables and report items.
3. Report page: Design a detailed table for each report, with optional buttons to filter and view details.
4. Contract signing page: Design an interface for users to view and sign digital contracts.

***Design principles:***

1. Simplicity and clarity: Ensure that interface elements are easy to understand and use.
2. User Interaction: Use interactive elements such as buttons, dialog boxes, and charts appropriately.
3. Consistency: Ensure consistency in interface design across different screens.

***Share and collect feedback:***

Share designs with team members and stakeholders to gather feedback.

Update and improve the design based on feedback received.

***Experiment:******Figma:***

<https://www.figma.com/design/npdnlM3RS8eQNNfHNkW3Ti/EsaleReport?node-id=0-1&t=V1OKnJqQQPgBcZ7H-1>

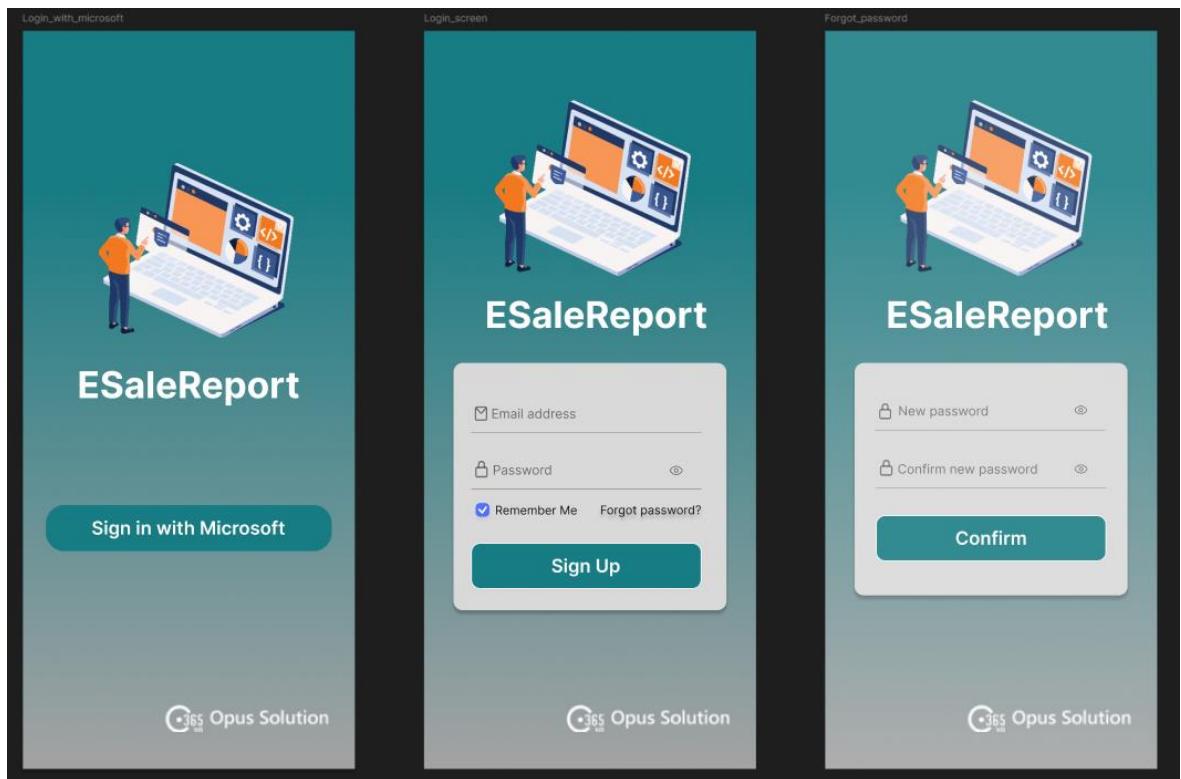


Image 14. Figma Login EsaleReport

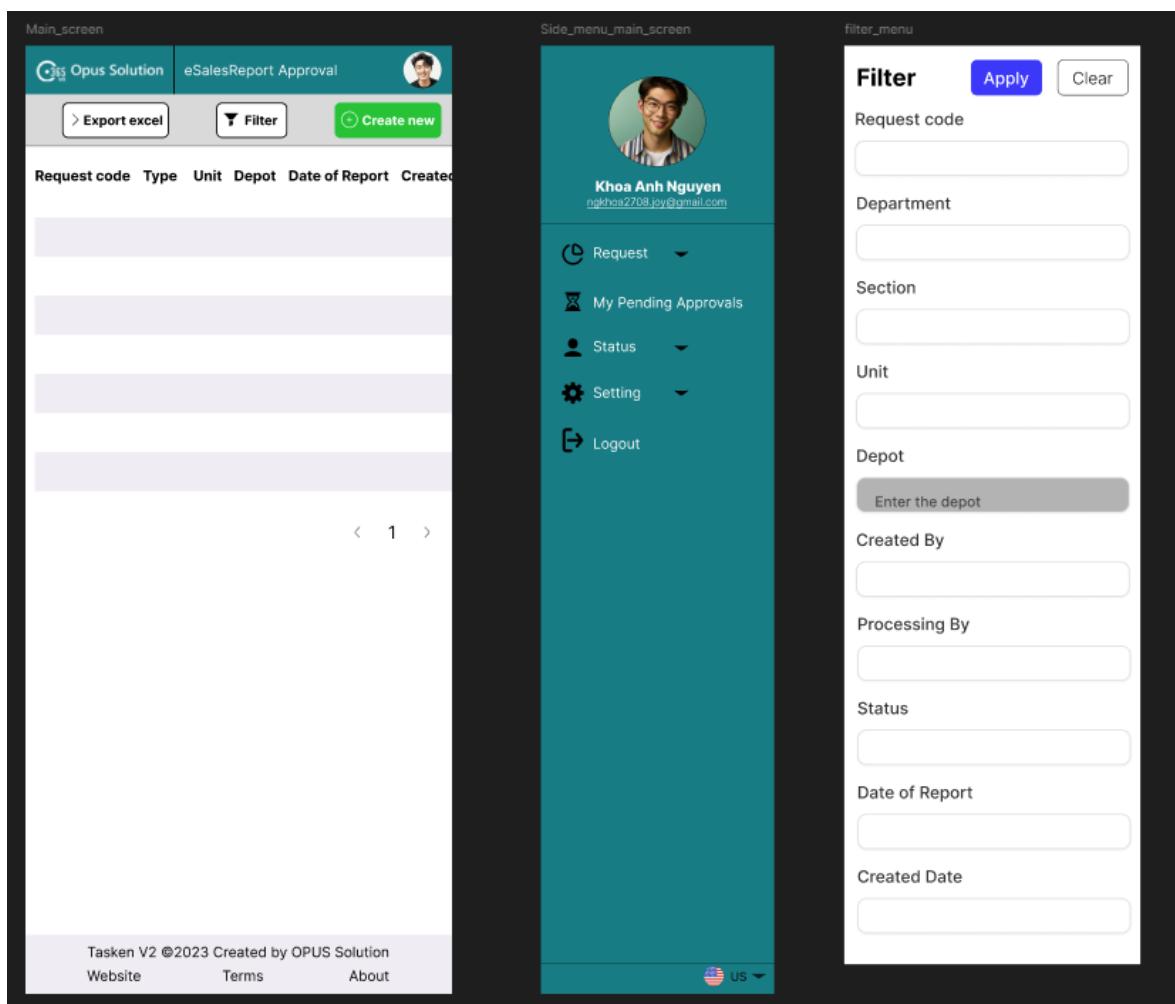


Image 15. EsaleReport homepage

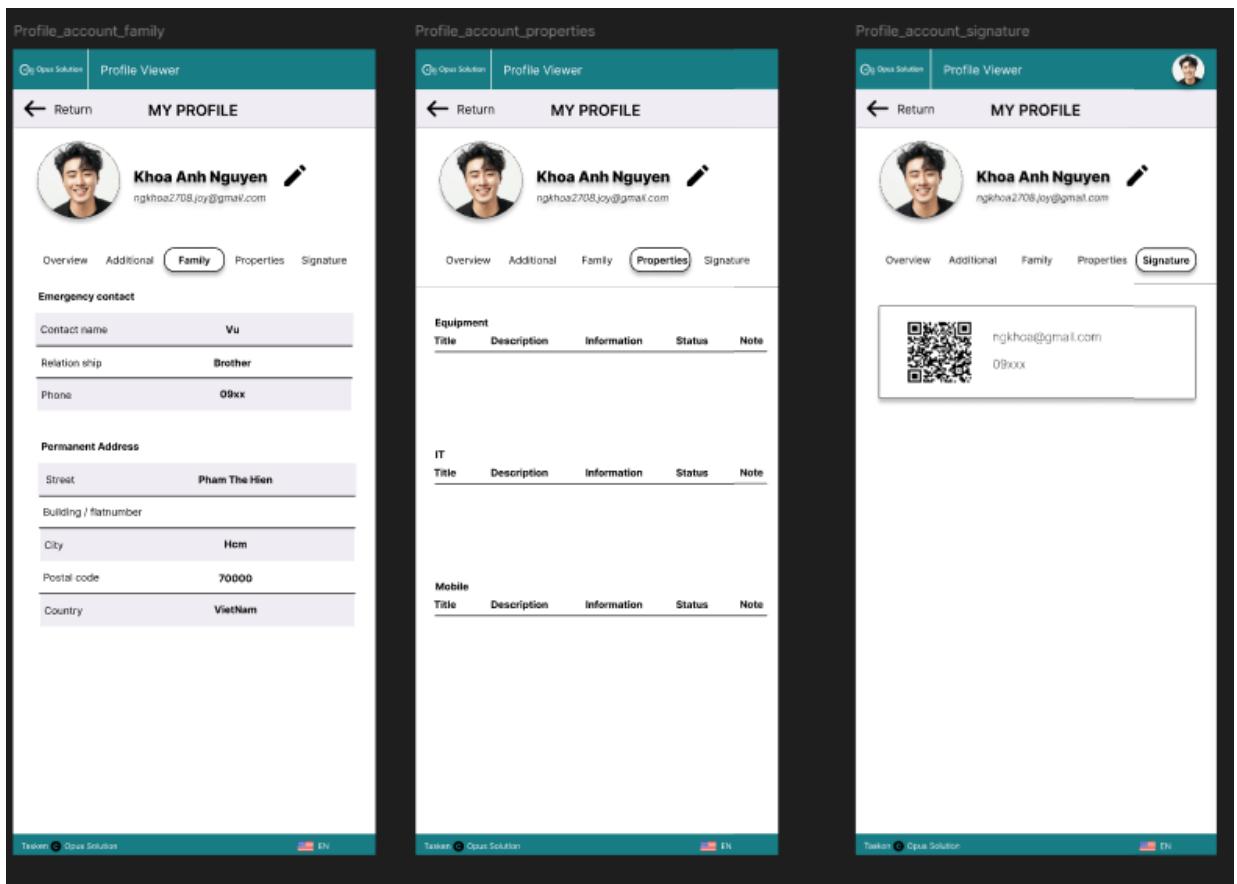


Image 16. Profile EsaleReport

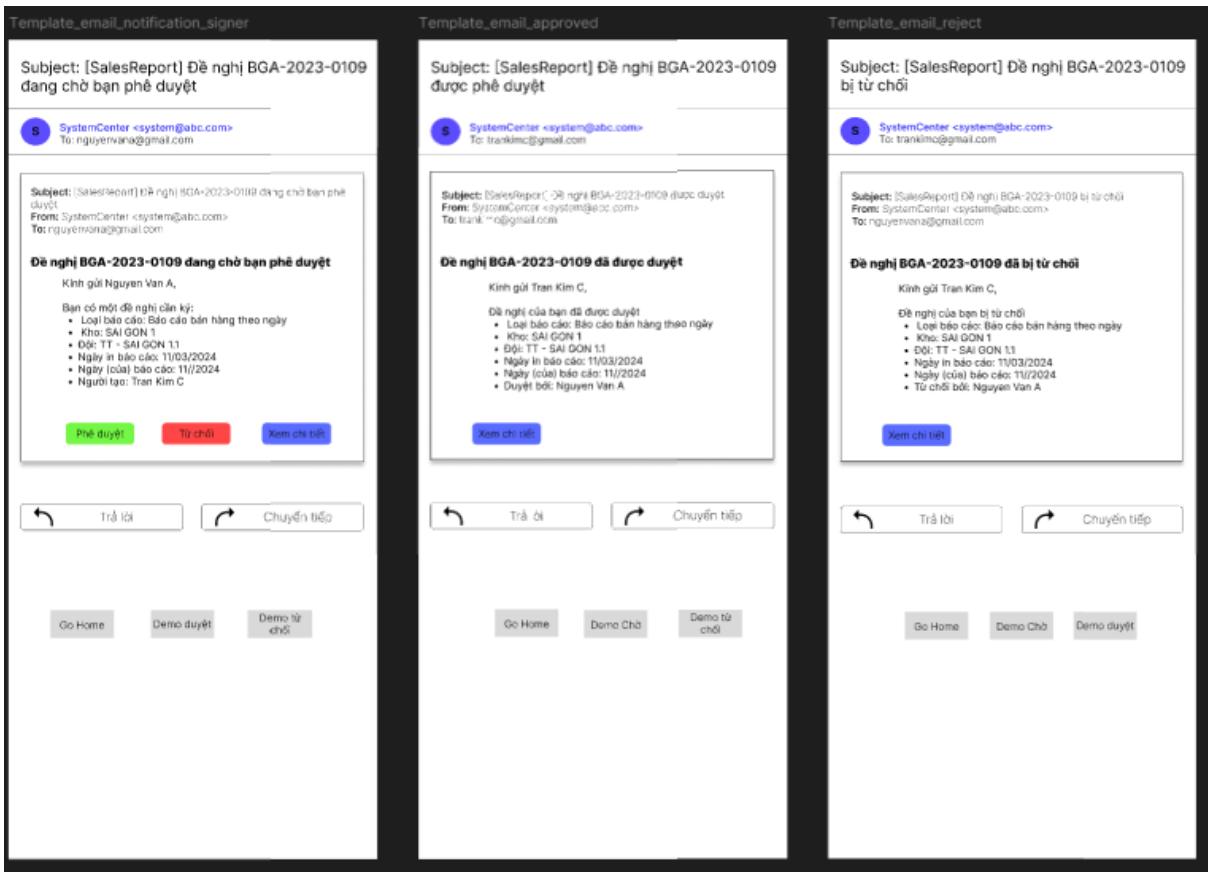


Image 17. EsaleReport notification email

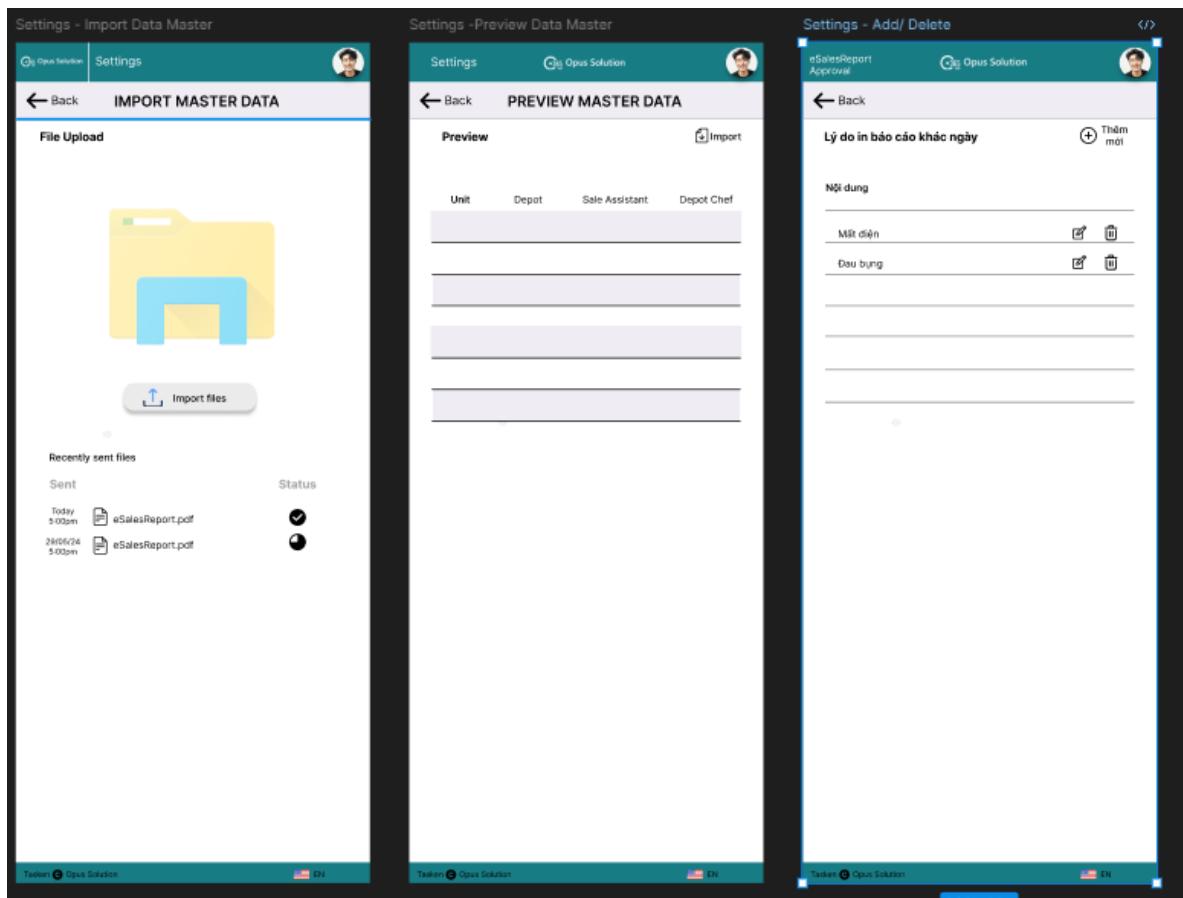


Image 18. Export file EsaleReport

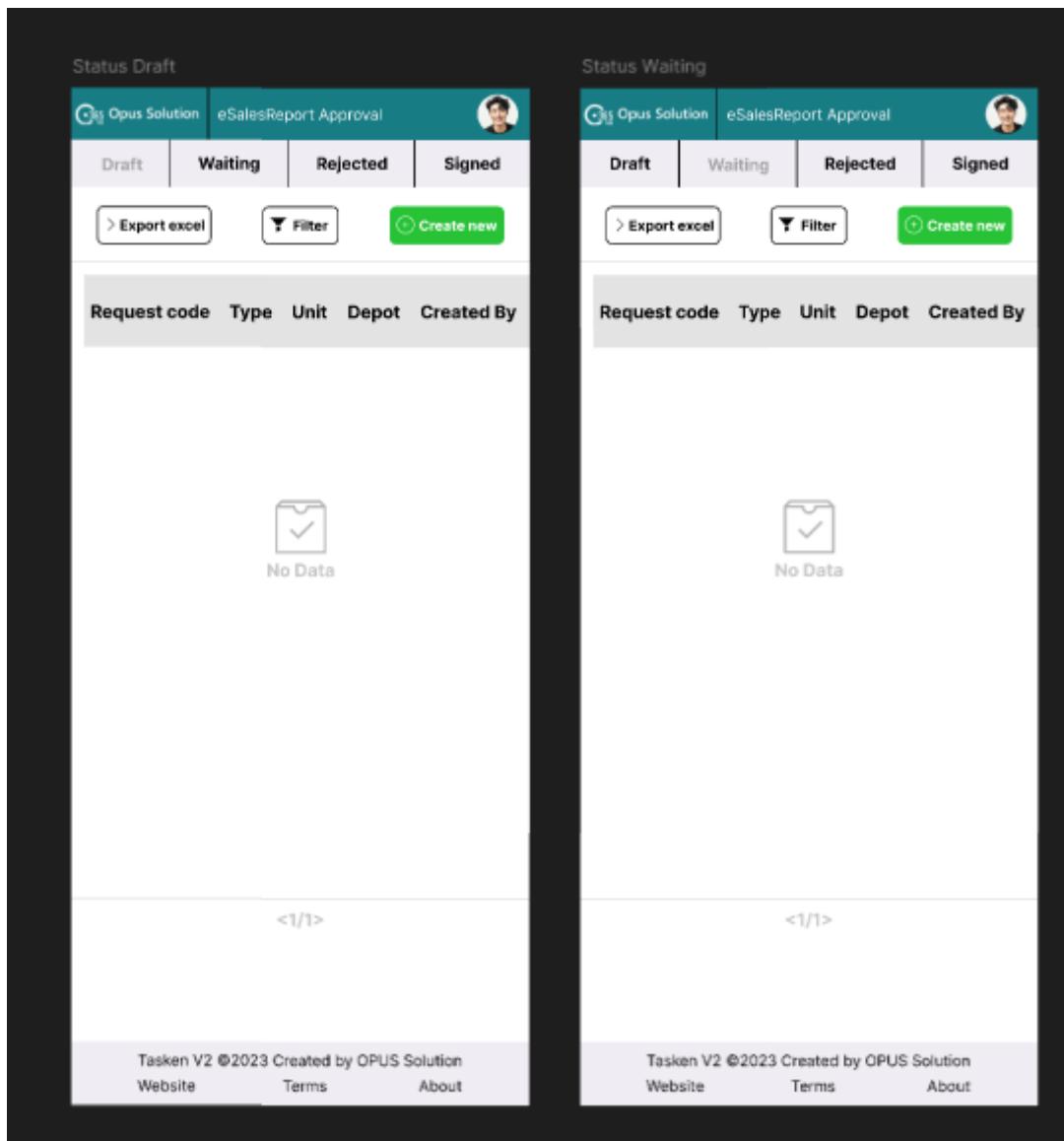


Image 19. Save draft EsaleReport

**Create Request**

eSalesReport Approval

← Back      Save draft      Submit

### SALES REPORT APPROVAL

* Applicant	* Department / Branch
<input type="text"/>	<input type="text"/>
* Section / Region	Depot
<input type="text"/>	<input type="text"/>
* Unit	* Request Date
<input type="text"/>	<input type="text"/>
Type of report	* Date of report
<input type="text"/>	<input type="text"/>
* Report printing date	Note
<input type="text"/>	<input type="text"/>
<b>Reason for printing report on different date</b>	
<input type="checkbox"/> Invoice SRO <input type="checkbox"/> The system has not yet generated invoice number(s) <input type="checkbox"/> Update Summary list of daily cash and sales <input type="checkbox"/> System error <input type="checkbox"/> Force majeure (natural disasters, power outages, etc.) <input type="checkbox"/> Sales team returned late from business trip, so Sales Assistant could not print the report on the right day <input type="checkbox"/> Other : <input type="text"/>	
<b>Report submitted for signature</b>	
<input type="button" value="↑ Select files"/>	
<b>Documents for reference</b>	
<input type="button" value="↑ Select files"/>	
<b>Signers</b>	
Nhân viên 1	Nhân viên 2
<input type="text"/>	<input type="text"/>
Nhân viên hỗ trợ bán hàng	Người quản lý
<input type="text"/>	<input type="text"/>
<input type="button" value="Add Signer"/>	

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**Detail\_Request**

eSalesReport Approval

← Back

Request Code: sCC\_2024\_070  
Status: Waiting for **approval**

### SALES REPORT APPROVAL

* Applicant	* Department / Branch
Khoa Anh Nguyen	Landmark 81 project
* Section / Region	Depot
CotecCons	Hai Phòng 1
* Unit	* Request Date
sub ContecCons	22/05/2024
Type of report	* Date of report
Báo cáo bán hàng	22/05/2024
* Report printing date	Note
22/05/2024	<input type="text"/>
<b>Reason for printing report on different date</b>	
<input checked="" type="checkbox"/> Invoice SRO <input checked="" type="checkbox"/> The system has not yet generated invoice number(s) <input type="checkbox"/> Update Summary list of daily cash and sales <input checked="" type="checkbox"/> System error <input type="checkbox"/> Force majeure (natural disasters, power outages, etc.) <input type="checkbox"/> Sales team returned late from business trip, so Sales Assistant could not print the report on the right day <input type="checkbox"/> Other : <input type="text"/>	
<b>Report submitted for signature</b>	
<b>Documents for reference</b>	
<b>Signers</b>	
Staff 1	Manager
<div style="border: 1px solid black; padding: 5px; display: inline-block;">           22/05/2024 17:00              Khoa Nguyen Anh         </div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">           Nhị Nguyễn Thị Yến         </div>

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Image 20. Create Request EsaleReport

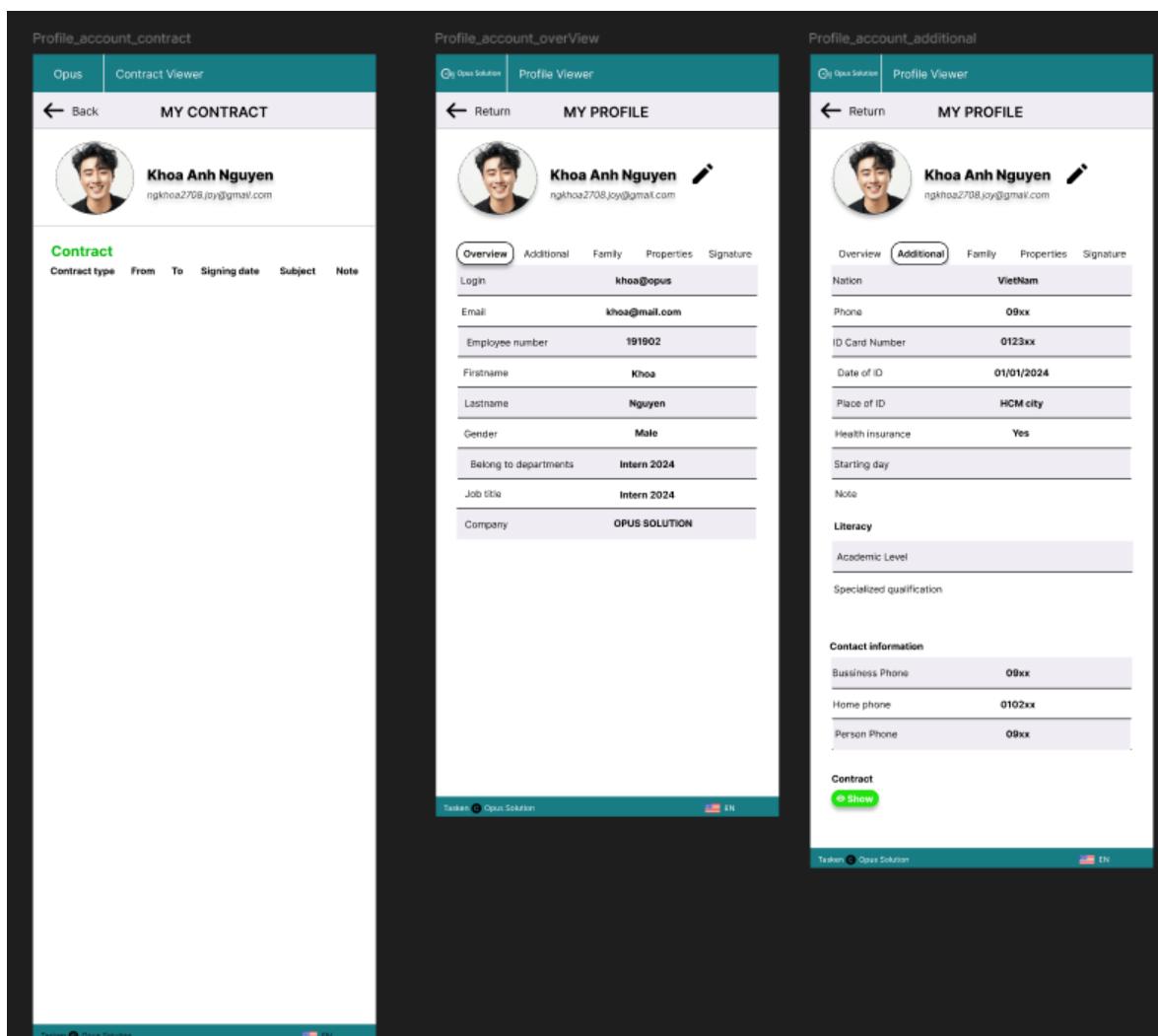
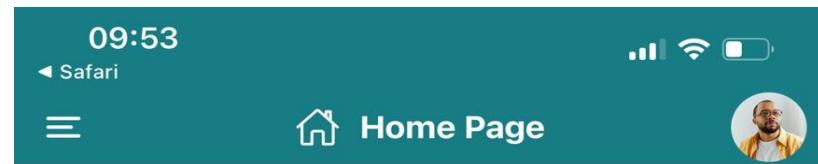


Image 21. Edit profile

**6.1.1 App EsaleReport on actual IOS devices:****Applicant**

Nguyen Anh Khoa

**Depot**

Depot

**Type of report**

Báo cáo bán hàng

**Department / Branch**

Department / Branch

**Unit**

Select the unit

**Date of report**

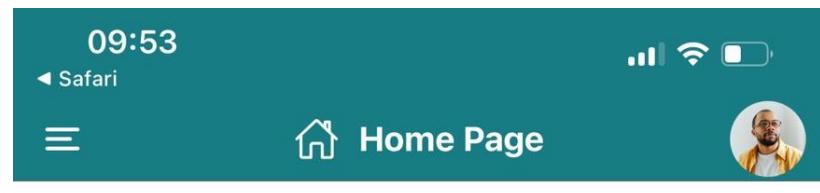
Sun Jul 21 2024

**Section / Region**

Select the section

**Request Date**

Sun Jul 21 2024



### Report printing Date



Sun Jul 21 2024

21 Jul 2024

### Note

Enter the note

### Reason for printing report on different date:

- Invoice SRO
- The system has not yet generated invoice number(s)
- Update Summary list of daily cash and sales
- System error
- Force majeure (natural disasters, power outages, etc.)
- Sales team returned late from business trip, so Sales Assistant could not print the report on the right day.
- Other:

### Report submitted for signature



Select File

### Documents for reference

The screenshot shows a mobile application interface with the following elements:

- Header:** Displays the time (09:53), network signal, Wi-Fi, and battery status. It also shows a back arrow labeled "Safari" and a home icon labeled "Home Page". A user profile picture of a man is visible.
- Document Upload:** A large button with an upward arrow icon and the text "Select File". Below it, the section "Documents for reference" is shown with another "Select File" button.
- Signers:** A section titled "Signers" with two entries:
  - Nhân viên 1:** Associated with a card containing "Approver 1", "ngkhoa2708.joy...", and "quocvinh9026@...".
  - Nhân viên 2:** Associated with a card containing "Approver 1", "ngkhoa2708.joy...", and "quocvinh9026@...". This entry has a blue pencil icon above it and a red X icon below it, indicating it is not selected.
- Task Status:** A large empty rectangular box at the bottom, likely representing a task or a placeholder for content.
- Page Footer:** Contains the text "Tasken ©2024" and "Opus Solution" with a logo.

09:53  
◀ Safari

≡ Home Page 

Nhân viên 2  

Select an approver

Approver 1

ngkhoa2708.joy...

Nhân viên hỗ trợ bán hàng (3)  

Approver 1

ngkhoa2708.joy...

quocvinh9026@...

Người quản lý (4)  

Select an approver

Approver 1

ngkhoa2708.joy...

Add Signer

Save Draft Submit

Tasken ©2024

 Opus Solution

10:04

DailySale\_18032024 Xong

E 1 / 3 AJINOMOTO

CÔNG TY AJINOMOTO VIỆT NAM  
Khu công nghiệp Biên Hòa 1-Dồng Nai-Việt Nam

**BÁO CÁO BÁN HÀNG THEO NGÀY**  
(Daily sale report)

Từ ngày:	17/11/2023	Đến ngày:	17/11/2023	Tài xế:		Khách hàng:											
Kênh:	Traditional Trade (TT)	Kho:	Bán Hàng	Số xe:		Nhân hàng:											
Vùng:	South 3	Danh:	TT-BIÊN HÒA 1														
Tỉnh:	Dồng Nai	Nơi bán hàng:															
STT	Số hóa đơn	Thời điểm post hóa đơn	Mã số khách hang	Tên khách hang	Địa chỉ	Mã số thuế	Loại khách hang	Mã hàng	Tên hàng	Số lượng	DVT	Đơn giá (trước thuế GTGT)	Thành tiền (trước thuế GTGT)	Thuế (%)	Tiền thuế GTGT	Thành tiền (sau thuế GTGT)	
1	67383.1C23TON	17/11/2023 15:10:29	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002781	Bột ngọt AJI- NO-MOTO 454g/LT	10	Gói	30.545	305.450	8	24.436	329.886	
2	67383.1C23TON	17/11/2023 15:10:29	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002781	Bột ngọt AJI- NO-MOTO 454g/LT	2	Gói						
									Tổng theo hóa đơn	305.450		24.436	329.886		330.000		
1	67384.1C23TON	17/11/2023 15:21:11	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002894	BO SẢN PHẨM AV140401.10 VÀ BC190Q3-CB1	3	Bó	100.000	300.000	8	24.000	324.000	
									Tổng theo hóa đơn	300.000		24.000	324.000		324.000		
1	67385.1C23TON	17/11/2023 15:22:34	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002894	BO SẢN PHẨM AV140401.10 VÀ BC190Q3-CB1	5	Bó	100.000	500.000	8	40.000	540.000	
2	67385.1C23TON	17/11/2023 15:22:34	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002781	Bột ngọt AJI- NO-MOTO 454g/LT	5	Gói						
									Tổng theo hóa đơn	500.000		40.000	540.000		540.000		
1	67386.1C23TON	17/11/2023 15:24:37	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002773	HỘP QUÀ TẾT 2023 SUM VÀY	5	Hộp	10.000	50.000	8	4.000	54.000	
2	67386.1C23TON	17/11/2023 15:24:37	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002781	Bột ngọt AJI- NO-MOTO 454g/LT	5	Gói						
									Tổng theo hóa đơn	50.000		4.000	54.000		54.000		
1	67387.1C23TON	17/11/2023 16:18:24	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002894	BO SẢN PHẨM AV140401.10 VÀ BC190Q3-CB1	3	Bó	100.000	300.000	8	24.000	324.000	
2	67387.1C23TON	17/11/2023 16:18:24	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002894	BO SẢN PHẨM AV140401.10 VÀ BC190Q3-CB1	3	Bó						
									Tổng theo hóa đơn	300.000		24.000	324.000		324.000		
1	67388.1C23TON	17/11/2023 16:19:53	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002773	HỘP QUÀ TẾT 2023 SUM VÀY	6	Hộp	10.000	50.000	8	4.000	54.000	
2	67388.1C23TON	17/11/2023 16:19:53	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002894	BO SẢN PHẨM AV140401.10 VÀ BC190Q3-CB1	6	Bó						
									Tổng theo hóa đơn	50.000		4.000	54.000		54.000		

**BÁO CÁO BÁN HÀNG THEO NGÀY**

Từ ngày: 17/11/2023 Đến ngày: 17/11/2023 Ngày in: 18/03/2024 09:27:31 PM

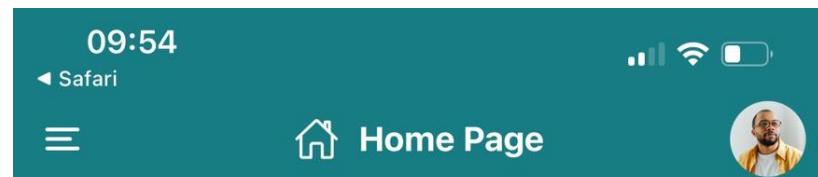
Kho: Bán Hàng Trang: 1 / 3 Người dùng: ngan\_ntk1

STT	Số hóa đơn	Thời điểm post hóa đơn	Mã số khách hang	Tên khách hang	Địa chỉ	Mã số thuế	Loại khách hang	Mã hàng	Tên hàng	Số lượng	DVT	Đơn giá (trước thuế GTGT)	Thành tiền (trước thuế GTGT)	Thuế GTGT	Tiền thuế GTGT	Thành tiền (sau thuế GTGT)	
1	67390.1C23TON	17/11/2023 16:26:49	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002894	BO SẢN PHẨM AV140401.10 VÀ BC190Q3-CB1	5	Bó	100.000	500.000	8	40.000	540.000	
2	67390.1C23TON	17/11/2023 16:26:49	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đường Quốc Lộ 1A, Phường Thạnh Phố Hà Nội	010598 869	Supreme Retail	140002773	HỘP QUÀ TẾT 2023 SUM VÀY	6	Bó						
									Tổng theo hóa đơn	500.000		40.000	540.000		540.000		

The screenshot shows a mobile application interface. At the top, the status bar displays the time as 09:54, signal strength, Wi-Fi, and battery level. Below the status bar is a dark header with a back arrow labeled "Safari", a home icon, the text "Home Page", and a user profile picture. The main content area contains a list of checkboxes with corresponding descriptions:

- The system has not yet generated invoice number(s)
- Update Summary list of daily cash and sales
- System error
- Force majeure (natural disasters, power outages, etc.)
- Sales team returned late from business trip, so Sales Assistant could not print the report on the right day.
- Other:

Below this list is a modal dialog box with a green header containing the text "File has been selected !". The dialog also displays the document name and type: "Document Name: DailySale\_18032024.pdf" and "Document type: application/pdf". At the bottom of the dialog is a "Close" button. In the background, partially visible through the modal, are several other UI elements including a "VIEW DOCUMENT" button, a "Sign & Save as Document" button, a "Documents for reference" section with a "Select File" button, and a "Signers" section with a large rectangular placeholder. The bottom of the screen features a dark footer with the text "Tasken ©2024", a white horizontal bar, and the "Opus Solution" logo.



- The system has not yet generated invoice number(s)
  - Update Summary list of daily cash and sales
  - System error
  - Force majeure (natural disasters, power outages, etc.)
  - Sales team returned late from business trip, so Sales Assistant could not print the report on the right day.
  - Other:
- 

#### Report submitted for signature

 Select File

[View Document](#)

[Sign & Save as Document](#)

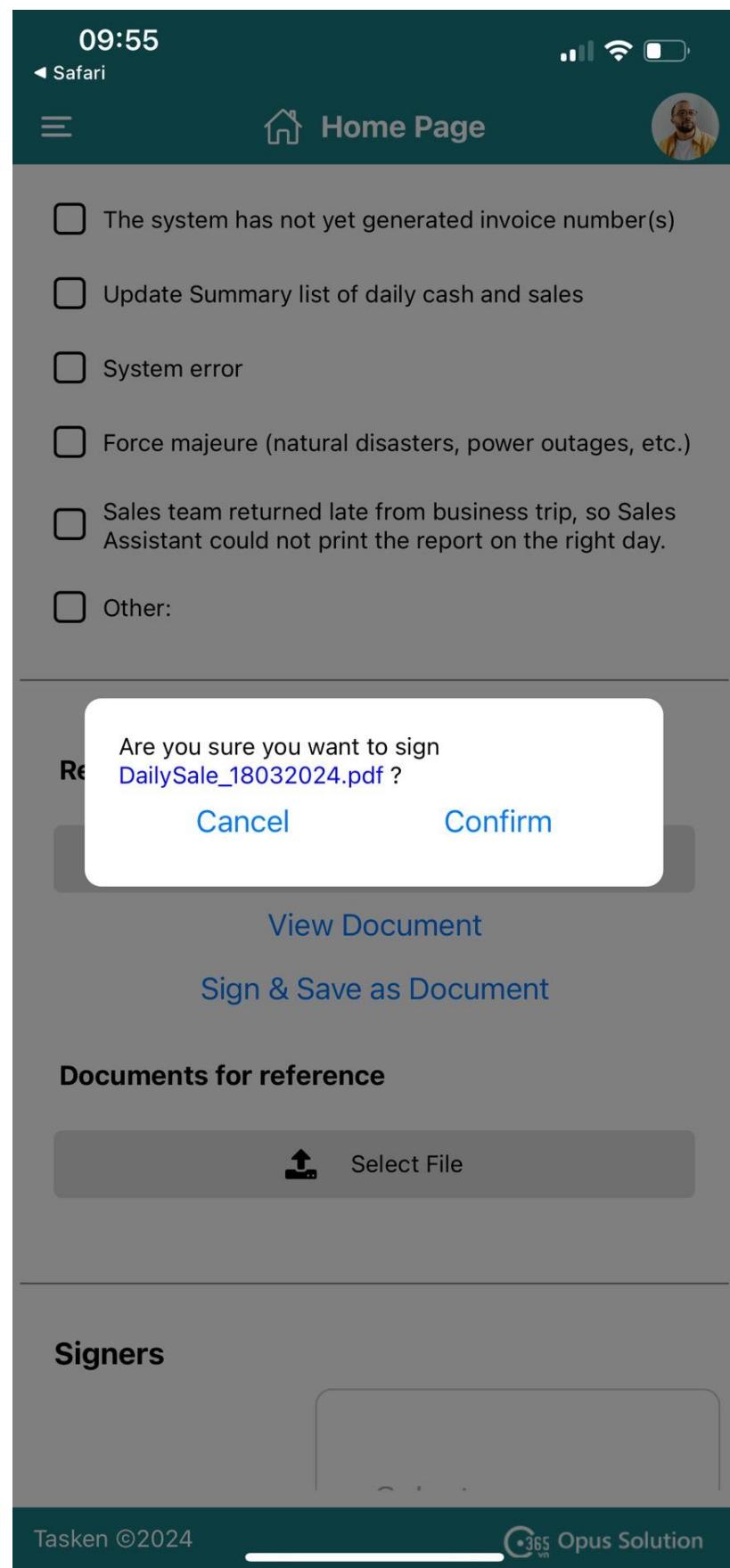
#### Documents for reference

 Select File

---

#### Signers





09:55

◀ Safari

signe... Done

Eat Well. Live Well.

**Aj**  
AJINOMOTO

CÔNG TY AJINOMOTO VIỆT NAM

Khu công nghiệp Biên Hòa 1-Dồng Nai-Việt Nam

Ngày in: 18/03/2024 09:27:31 PM  
Trang: 1 / 3  
Người dùng: ngan\_ntk1

**BÁO CÁO BÁN HÀNG THEO NGÀY**  
(Daily sale report)

Từ ngày: 17/11/2023 Đến ngày: 17/11/2023

Kênh: Traditional Trade (TT) Kho: Biên Hòa

Vùng: South 3 Đô: TT-BIÊN HÒA 1

Tỉnh: Đồng Nai Ngày bán hàng:

Nhân viên 1	Nhân viên 2	Nhân viên hỗ trợ bán hàng	Người quản lý
21 tháng 7, 2024			
<b>SIGNED</b>			
Nguyễn Anh Khoa			

STT	Số hóa đơn	Thời điểm post hóa đơn	Mã số khách hàng	Tên khách hàng	Địa chỉ	Mã số thuế	Loại khách hàng	Mã hàng	Tên hàng	Số lượng	DVT	Đơn giá (trước thuế GTGT)	Thành tiền (trước thuế GTGT)	Thuế (%)	Tiền thuế GTGT	Thành tiền (sau thuế GTGT)	Thành tiền (sau thuế GTGT) thực thu từ khách hàng
1	67383.1C23TON	17/11/2023 15:10:29	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002781	Bột ngọt AJI-NO-MOTO 454g/túi	10	Gói	30.545	305.450	8	24.436	329.886	
2	67383.1C23TON	17/11/2023 15:10:29	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002781	Bột ngọt AJI-NO-MOTO 454g/túi	2	Gói						
											Tổng theo hóa đơn	305.450		24.436	329.886	330.000	
1	67384.1C23TON	17/11/2023 15:21:11	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002894	BO SẢN PHẨM AV1404L10 VÀ BC190Q3-CB1	3	Bộ	100.000	300.000	8	24.000	324.000	
											Tổng theo hóa đơn	300.000		24.000	324.000	324.000	
1	67385.1C23TON	17/11/2023 15:22:34	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002894	BO SẢN PHẨM AV1404L10 VÀ BC190Q3-CB1	5	Bộ	100.000	500.000	8	40.000	540.000	
2	67385.1C23TON	17/11/2023 15:22:34	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002781	Bột ngọt AJI-NO-MOTO 454g/túi	5	Gói						
											Tổng theo hóa đơn	500.000		40.000	540.000	540.000	
1	67386.1C23TON	17/11/2023 15:24:37	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002773	HỘP QUÀ TẾT 2023 SUNDAY VÀ	5	Hộp	10.000	50.000	8	4.000	54.000	
2	67386.1C23TON	17/11/2023 15:24:37	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002781	Bột ngọt AJI-NO-MOTO 454g/túi	5	Gói						
											Tổng theo hóa đơn	50.000		4.000	54.000	54.000	
1	67387.1C23TON	17/11/2023 16:18:24	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002894	BO SẢN PHẨM AV1404L10 VÀ BC190Q3-CB1	3	Bộ	100.000	300.000	8	24.000	324.000	
2	67387.1C23TON	17/11/2023 16:18:24	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002894	BO SẢN PHẨM AV1404L10 VÀ BC190Q3-CB1	3	Bộ						
											Tổng theo hóa đơn	300.000		24.000	324.000	324.000	
1	67388.1C23TON	17/11/2023 16:19:53	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002773	HỘP QUÀ TẾT 2023 SUNDAY VÀ	5	Hộp	10.000	50.000	8	4.000	54.000	
2	67388.1C23TON	17/11/2023 16:19:53	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002894	BO SẢN PHẨM AV1404L10 VÀ BC190Q3-CB1	5	Bộ						
											Tổng theo hóa đơn	50.000		4.000	54.000	54.000	

**BÁO CÁO BÁN HÀNG THEO NGÀY**  
(Daily sale report)

Từ ngày: 17/11/2023 Đến ngày: 17/11/2023

Kho: Biên Hòa

Đô: TT-BIÊN HÒA 1

Ngày in: 18/03/2024 09:27:31 PM  
Trang: 2 / 3  
Người dùng: ngan\_ntk1

STT	Số hóa đơn	Thời điểm post hóa đơn	Mã số khách hàng	Tên khách hàng	Địa chỉ	Mã số thuế	Loại khách hàng	Mã hàng	Tên hàng	Số lượng	DVT	Đơn giá (trước thuế GTGT)	Thành tiền (trước thuế GTGT)	Thuế (%)	Tiền thuế GTGT	Thành tiền (sau thuế GTGT)	Thành tiền (sau thuế GTGT) thực thu từ khách hàng
1	67390.1C23TON	17/11/2023 16:26:49	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số 10, Đường Quốc lộ 1A, Phường Long Bình, Thành phố Hồ Chí Minh	010598869	Supreme Net	140002894	BO SẢN PHẨM AV1404L10 VÀ BC190Q3-CB1	5	Bộ	100.000	500.000	8	40.000	540.000	

09:55

◀ Safari

signe... Done

E 1 / 3 AJINOMOTO

CÔNG TY AJINOMOTO VIỆT NAM

Khu công nghiệp Biên Hòa 1-Dong Nai-Viet Nam

Ngày in: 18/03/2024 09:27:31 PM

Trang: 1 / 3

Người dùng: ngan\_ntk1

**BÁO CÁO BÁN HÀNG THEO NGÀY**  
(Daily sale report)

Từ ngày: 17/11/2023 Đến ngày: 17/11/2023

Kênh: Traditional Trade (TT) Kho: Biên Hòa

Vùng: South 3 Địa: TT-BIÊN HÒA 1

Tỉnh: Đồng Nai

Nơi bán hàng:

Nhân viên 1	Nhân viên 2	Nhân viên hỗ trợ bán hàng	Người quản lý
21 thg 7, 2024 [SIGNED] Nguyen Anh Khoa	21 thg 7, 2024 [SIGNED] Nhan vien 2	21 thg 7, 2024 [SIGNED] Ngoai ban hang	21 thg 7, 2024 [SIGNED] nguoi quan ly

STT	Số hóa đơn	Thời điểm post hóa đơn	Mã số khách hang	Tên khách hang	Địa chỉ	Mã số thuế	Lỗi khách hang	Mã hàng	Tên hàng	Số lượng	DVT	Đơn giá (trước thuế GTGT)	Thành tiền (trước thuế GTGT)	Thứ (%)	Tiền thuế GTGT	Thành tiền (sau thuế GTGT)	Thành tiền (sau thuế GTGT) thực thu từ khách hàng
1	67383.1C23TON	17/11/2023 15:10:29	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002781	Bột ngọt AJI- NO-MOTO 454g/TB	10	Gói	30.545	305.450	8	24.436	329.886	
2	67383.1C23TON	17/11/2023 15:10:29	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002781	Bột ngọt AJI- NO-MOTO 454g/TB	2	Gói						
									Tổng theo hóa đơn	305.450		24.436	329.886		330.000		
1	67384.1C23TON	17/11/2023 15:21:11	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002894	BO SẢN PHẨM AV14040110 VÀ BC190Q3-CB1	3	Bộ	100.000	300.000	8	24.000	324.000	
									Tổng theo hóa đơn	300.000		24.000	324.000		324.000		
1	67385.1C23TON	17/11/2023 15:22:34	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002894	BO SẢN PHẨM AV14040110 VÀ BC190Q3-CB1	5	Bộ	100.000	500.000	8	40.000	540.000	
2	67385.1C23TON	17/11/2023 15:22:34	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002781	Bột ngọt AJI- NO-MOTO 454g/TB	5	Gói						
									Tổng theo hóa đơn	500.000		40.000	540.000		540.000		
1	67386.1C23TON	17/11/2023 15:24:37	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002773	HỘP QUÀ TẾT 2023 SUM VÀY	5	Hộp	10.000	50.000	8	4.000	54.000	
2	67386.1C23TON	17/11/2023 15:24:37	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002781	Bột ngọt AJI- NO-MOTO 454g/TB	5	Gói						
									Tổng theo hóa đơn	50.000		4.000	54.000		54.000		
1	67387.1C23TON	17/11/2023 16:18:24	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002894	BO SẢN PHẨM AV14040110 VÀ BC190Q3-CB1	3	Bộ	100.000	300.000	8	24.000	324.000	
2	67387.1C23TON	17/11/2023 16:18:24	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002894	BO SẢN PHẨM AV14040110 VÀ BC190Q3-CB1	3	Bộ						
									Tổng theo hóa đơn	300.000		24.000	324.000		324.000		
1	67388.1C23TON	17/11/2023 16:19:53	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002773	HỘP QUÀ TẾT 2023 SUM VÀY	6	Hộp	10.000	50.000	8	4.000	54.000	
2	67388.1C23TON	17/11/2023 16:19:53	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002894	BO SẢN PHẨM AV14040110 VÀ BC190Q3-CB1	6	Bộ						
									Tổng theo hóa đơn	58.000		4.000	54.000		54.000		

**BÁO CÁO BÁN HÀNG THEO NGÀY**  
(Daily sale report)

Từ ngày: 17/11/2023 Đến ngày: 17/11/2023

Kho: Biên Hòa

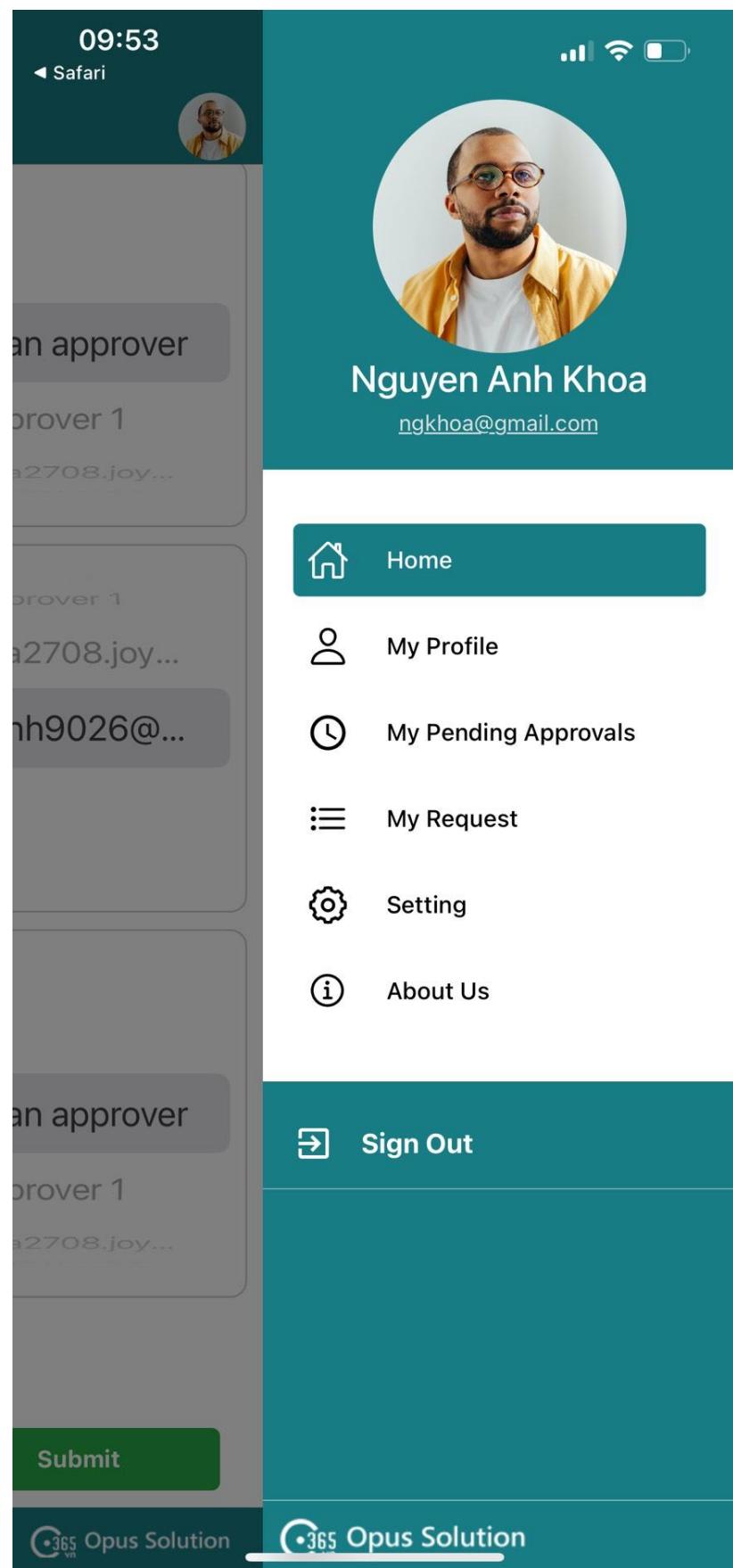
Địa: TT-BIÊN HÒA 1

Ngày in: 18/03/2024 09:27:31 PM

Trang: 2 / 3

Người dùng: ngan\_ntk1

STT	Số hóa đơn	Thời điểm post hóa đơn	Mã số khách hang	Tên khách hang	Địa chỉ	Mã số thuế	Lỗi khách hang	Mã hàng	Tên hàng	Số lượng	DVT	Đơn giá (trước thuế GTGT)	Thành tiền (trước thuế GTGT)	Thứ (%)	Tiền thuế GTGT	Thành tiền (sau thuế GTGT)	Thành tiền (sau thuế GTGT) thực thu từ khách hàng
1	67390.1C23TON	17/11/2023 16:26:49	1420000013	Công Ty Cổ Phần Thương Mại Đầu Tư Long Biên	Số 961 Nguyễn Văn Linh, Số Đồng Quận Long Biên Thành phố Hà Nội	010598 969	Supreme Ret	140002894	BO SẢN PHẨM AV14040110 VÀ BC190Q3-CB1	3	Bộ	100.000	300.000	8	40.000	340.000	



MyProfile:

**My Profile**

**Nguyen Anh Khoa**  
[ngkhoa@gmail.com](mailto:ngkhoa@gmail.com)

**Overview   Additional   Family   Properties   Signature**

<b>Login:</b>	khoana@o365.vn
<b>Email:</b>	ngkhoa@gmail.com
<b>Employee number:</b>	123456
<b>First name:</b>	khoa
<b>Last name:</b>	Nguyen Anh
<b>Sex:</b>	male
<b>Birth day:</b>	July 2, 1990
<b>Job title:</b>	React Native Mobile Dev
<b>Position:</b>	Intern
<b>Company:</b>	Opus_solution
<b>Unit:</b>	
<b>Function:</b>	
<b>Department:</b>	

Tasken ©2024

Opus Solution

The screenshot shows a mobile application interface for a user profile. At the top, there is a header bar with the time "09:54", signal strength, battery level, and a "Safari" back arrow icon. Below the header is a teal navigation bar with the title "My Profile" and a circular profile picture of a man.

The main content area has tabs for "Overview", "Additional" (which is selected and highlighted in green), "Family", "Properties", and "Signature".

**Additional Information:**

- Nation:** Viet Nam
- Phone:** 123456789
- ID card number:** (not visible)
- Date of ID card:** (not visible)
- Place of ID card:** (not visible)
- Health insurance:** (not visible)
- Starting date:** 1/1/2000
- Starting date official:** 1/1/2000
- Leaving date:** 1/1/2000
- Start date maternity leave:** (not visible)
- Note:** nothing

**Literacy**

**Academic level:** (not visible)

**Specialized qualification:** (not visible)

**Contact Info**

**Business phone:** (not visible)

**Home phone:** (not visible)

**Personal email:** ngkhoa@gmail.com

**Bank Account**

**Bank name:** (not visible)

At the bottom of the screen, there is a footer bar with the text "Tasken ©2024" on the left and "C365 Opus Solution" on the right, separated by a horizontal line.

09:54  
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## My Profile



### Nguyen Anh Khoa

[ngkhoa@gmail.com](mailto:ngkhoa@gmail.com)

Overview Additional **Family** Properties Signature

**Martial status:** Married

**Emergency contact**

Contact name:  
Relationship:  
Phone:

**Permanent Address:**

Street:  
Building / flatnumber:  
City:  
Province / state: Ho Chi Minh  
Postal code: 70000  
Country: Viet Nam

**Relationships** \*Click to view

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My Profile



Nguyen Anh Khoa

[ngkhoa@gmail.com](mailto:ngkhoa@gmail.com)

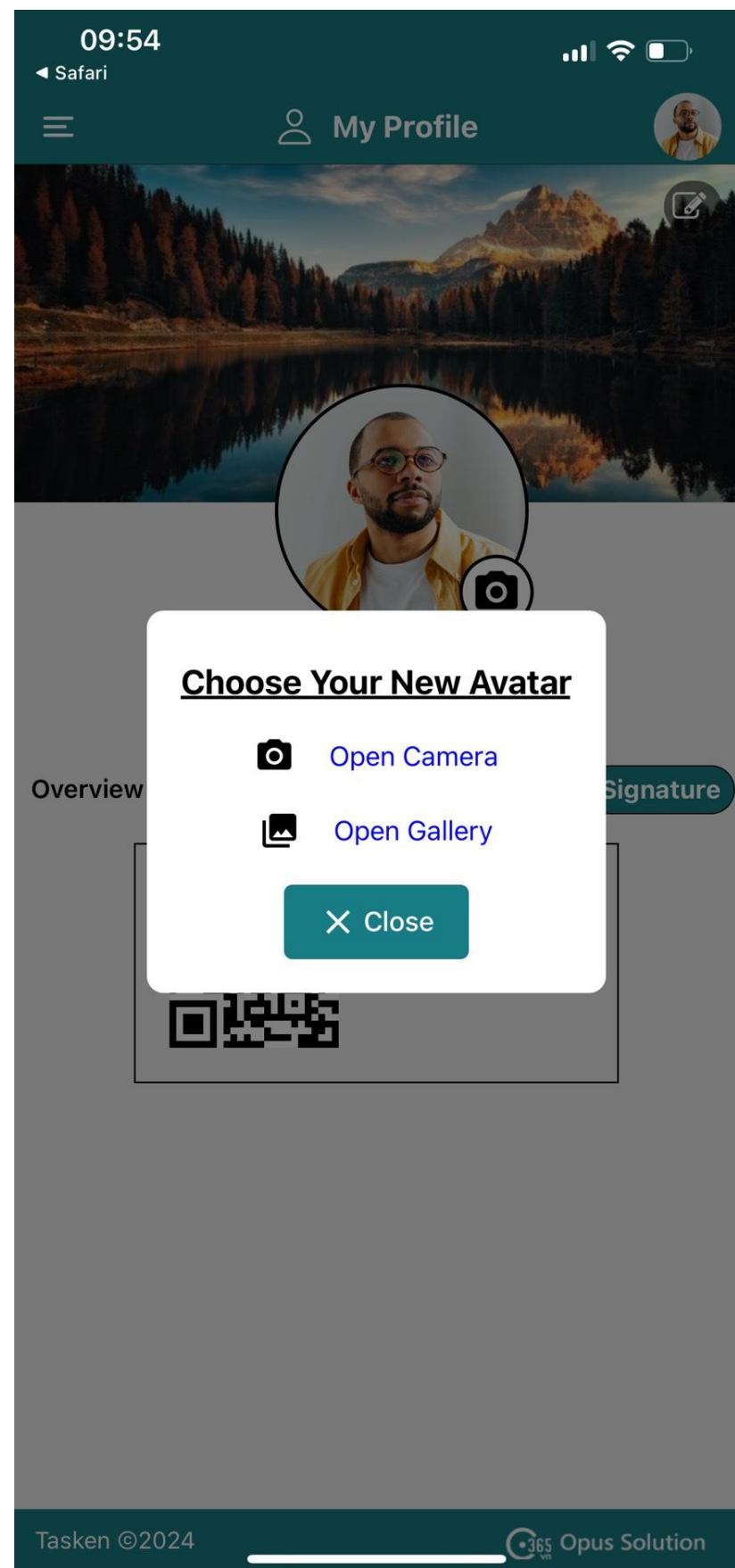
Overview Additional Family Properties **Signature**



Nguyen Anh Khoa  
ngkhoa@gmail.com

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## About Us:

**DESIGN, IMPLEMENT & MANAGE  
TAILOR-MADE OUTSOURCING WEB  
BASE APPLICATION & SHAREPOINT  
DEVELOPMENT**

**OVERALL**

OPUS is a leading company in technology of Microsoft SharePoint, Office365 cloud application development in Vietnam with over 10 years consultant experiences. We also provide Training and Business Consult service to help our customer transform with Microsoft platform such as Office 365, SharePoint & Azure

**OUR SERVICES**

**Implementation**      Training      Consultant

- ✓ Web App & SharePoint Design Branding UI
- ✓ Custom Workflows Application development

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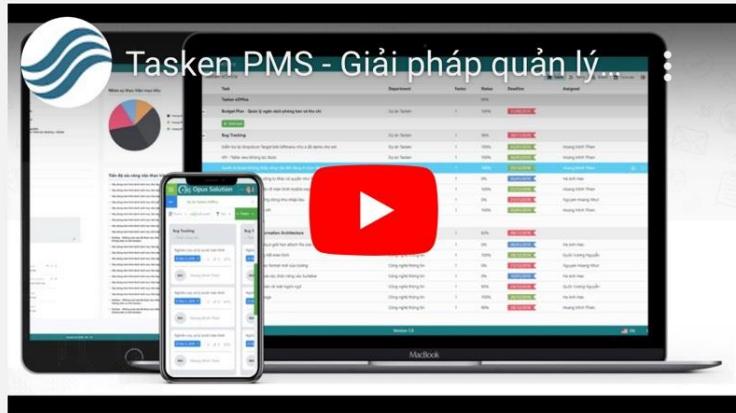
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## OUR WORK

Development of specific solutions, dedicated offshore team in SharePoint, Office365, asp .Net, PHP web base application, and mobile application on iOS, Android, Win Mobile, Xamarin. Below is some project that we did.

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## OUR LOCATION

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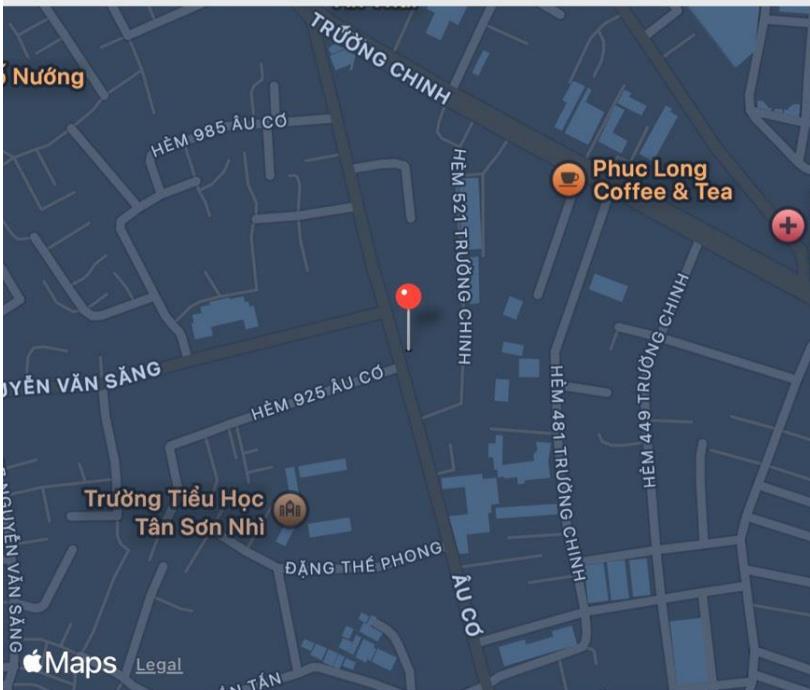
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## OUR LOCATION

F1 3, Hoang Tam building, 138/25 Truong Cong Dinh, W14, Tan Binh, HCMC



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## OUR COLLABORATING COMPANIES

Happy Clients



PETRONAS 

ACB 

Singtel 

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 **FV HOSPITAL**  

**C365 vn**

**OPUS SOLUTION COMPANY LIMITED**

Contact Us

Fl 3, Hoang Tam building, 138/25 Truong Cong Dinh, W14, Tan Binh, HCMC

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**SEND EMAIL**  

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## CHƯƠNG 7. CONCLUSION WITH REACT NATIVE INTERNSHIP COURSE

### 7.1 Conclude

***These achievements:***

1. Successfully developed mobile version of eSaleReport application
2. User interface design: The application is designed with a friendly user interface, easy to use, suitable to the user's needs.
3. System integration: Successfully integrated with backend systems using Microsoft Azure, ensuring data is synchronized and managed effectively.
4. Main functions: Fully implemented main functions including logging in, viewing reports, and signing digital contracts.

***Use modern tools and technology***

- Figma: Use Figma to sketch and design interfaces, making collaboration and feedback easy.
- Visual Studio Code and Expo Go: Experience developing and testing applications using Visual Studio Code combined with Expo Go, ensuring a smooth and efficient development process.

***These lessons learned***

- The importance of collecting and analyzing feedback

Feedback from users and stakeholders is a key factor in the application development process. Listening and applying this feedback helps improve quality and user experience.

- Continuous and comprehensive testing

Continuous and cross-device testing helps detect potential bugs and issues early, ensuring application stability and performance.

- Collaborate and assign work clearly

Close cooperation and clear work assignment among team members are important factors that help the development process go smoothly and achieve good results.

## **7.2 Future development direction**

1. Enhance features and expand scope of use
2. Continue to develop and enhance the application's features, while expanding the scope of use to serve more users.
3. Optimize performance and user experience
4. Continuously optimize app performance and improve user experience based on real-world usage data and feedback.

## REFERENCES

**Vietnamese**

...

**English**

**Website**

[3.1]: <https://reactnative.dev/>

[3.1]: <https://github.com/facebook/react-native>