

Thai Lottery Web App Project

For Laos Market

Product Requirements Document

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Sample theme of the website:



A. Product Requirements

The Product Requirements have three (3) points listed as follows:

1. Problem

The inability to quickly purchase Thailand lottery tickets has created a major inconvenience for lottery lovers in Laos. Lottery players must travel to Thailand to acquire tickets in person because Laos does not sell Thailand lottery tickets. This entails additional costs and could not be practical for certain people, particularly given the current pandemic situation. However, buying tickets via an agent might be risky and unreliable due to the potential for fraud or scams. Lottery fans who want to play in the Thailand lottery now face a huge obstacle because there isn't a convenient and dependable place to buy Thailand lottery tickets in Laos.

2. Purpose

The Thailand Lottery web app project's goal is to give Thailand lottery enthusiasts in Laos an easy and secure online platform to buy Thailand lottery tickets. Users won't need to travel to Thailand to get tickets because they can buy them using the web app from anywhere in Laos.

The web app will also provide users the option to buy tickets through a curated agent, enabling them to do so even if they do not have access to the internet or would rather not buy tickets online. The web software intends to meet the needs of Lao lottery fans while extending the market for Thailand's lottery sector by offering a user-friendly and dependable platform for buying Thailand lottery tickets.

3. Product Vision Statement

The Thailand Lotto web app project's product vision is to offer a dependable and user-friendly platform for lottery aficionados in Laos to buy Thailand lottery tickets and take part in the thrilling lottery draws. Users will no longer need to go to Thailand to acquire tickets because the web app will make it easier for them to do so online or through brokers in Laos.

When users win, the web app will ensure a simple process of claiming the prize by allowing users to input their bank account information in their account profile. The web app will offer a user-friendly dashboard for users to examine their tickets.

The Thailand Lottery web app's admin team will handle the claiming process for the user, without the need to travel to Thailand. Additionally, the web app will also provide an option for users to obtain physical tickets that can be claimed in the Vientiane office in Laos. The product vision of the Thailand Lottery web app is to provide a reliable and convenient platform that brings the thrill of the Thailand lottery to lottery enthusiasts in Laos, creating a seamless and rewarding experience for all users.

B. Objectives

The following objectives are proposed:

1. Increase accessibility

Develop a user-friendly web app that provides an easy and secure way for lottery enthusiasts in Laos to purchase Thailand lottery tickets online, regardless of their location within Laos.

2. Enhance user experience

Provide a seamless user experience that allows users to view their purchased tickets in their dashboard and to have the option of obtaining physical tickets that can be claimed in the Vientiane office in Laos.

3. Ensure secure transactions

Incorporate robust security features into the web app to ensure that user transactions are protected from fraudulent activities.

4. Streamline prize claiming process

Develop a streamlined prize claiming process that enables winners to input their bank account details in their account profile, and for the Thailand Lottery web app admin team to manage the claiming process smoothly without requiring the user to travel to Thailand.

5. Expand market reach

Expand the market reach for the Thailand lottery industry by providing a convenient and reliable platform for lottery enthusiasts in Laos to purchase Thailand lottery tickets, potentially increasing the number of ticket sales and revenue for the Thailand lottery industry.

6. Introduce additional revenue stream for agents

The web app offers the option for users to become agents, allowing them to earn a commission of 1% from the winnings of other users, as well as a share of the sales revenue generated from the lottery tickets. This provides agents with an opportunity to generate additional income, which is not available through other means, and incentivizes them to promote the Thailand Lottery web app to potential users.

By achieving these objectives, the Thailand Lottery web app will offer a reliable and convenient platform for lottery enthusiasts in Laos to participate in the Thailand lottery draws and stand a chance to win big prizes, while also expanding the market reach for the Thailand lottery industry.

C. User Journeys

1. Personas

a. Admin Persona

As an admin of the Thailand Lottery web app, I am responsible for managing the app's various features, including tickets, users, winners, history logs, and sub-admins. I start my day by logging into the app's dashboard, where I can easily view and manage all the app's data. I check for any new ticket uploads, ensuring that all tickets are valid and accounted for. I then review the user data, checking for any suspicious activities, and monitor the history log to keep track of all the transactions made within the app. In addition, I create sub-admin accounts and manage their access levels to ensure that the app's security is maintained. Overall, my goal is to ensure that the Thailand Lottery web app runs smoothly and efficiently, providing users and agents with a seamless lottery experience.

b. Agents Persona

As an agent of the Thailand Lottery web app, my primary goal is to increase my earnings by purchasing tickets for others and earning commissions when they win. I start my day by logging into my agent account on the app's dashboard, where I can easily view and manage my transactions. I check for any new requests from users who want me to purchase tickets on their behalf. I ensure that I purchase the requested tickets within the deadline, and I monitor the results to inform my clients if they win. As an agent, I also earn a portion of the ticket sales, which motivates me to promote the Thailand Lottery web app to potential

users. Overall, my goal is to generate more revenue for myself and for the Thailand Lottery industry.

c. Users Persona

As a user of the Thailand Lottery web app, my goal is to purchase Thailand lottery tickets conveniently online and monitor my tickets and winnings in the dashboard. I start by logging into the app's dashboard, where I can easily view and manage my tickets. I purchase tickets online, or I can choose to purchase from an agent if I prefer. I can easily monitor my tickets' status and view the draw results to check if I win. If I win, I input my bank account details in my account profile, and the Thailand Lottery web app admin team manages the claiming process smoothly without requiring me to travel to Thailand. Additionally, I have the option of obtaining physical tickets that can be claimed in the Vientiane office in Laos. Overall, my goal is to enjoy the excitement of participating in the Thailand lottery draws and stand a chance to win big prizes conveniently and securely through the Thailand Lottery web app.

2. Journey

a. For Users and Agents

The user visits the homepage of the Thailand Lottery web app where he can purchase lottery tickets directly. The user has the option to buy one ticket or sets of 2, 3, 4, 5 and so on, which can be added to his Cart. Upon checkout, the user is prompted to sign in or create an account. The registration process requires only the user's mobile phone number, and an SMS OTP will be sent for verification. Once the user logs in, he can proceed with the payment process. Payment for phase 1 is made through bank deposit, and the user must upload the deposit receipt. The user then waits for admin approval. After the admin approves the deposit, the user's tickets will be displayed in his portal. If the user wins, he can add his bank account details to his profile, and a support personnel will contact him to guide him on how to claim the prize and receive the winning amount.

b. For Agents

Users who want to apply as agents can do so by clicking on the "Apply as Agent" button in the dashboard. The user can then buy lottery tickets for someone else and earn commissions and sales from their winnings.

c. For Admin

The admin manages the tickets, uploads the tickets, manages users and winners, maintains a history log, and creates sub-admins. When the admin uploads a photocopy of the Thailand lottery tickets, OCR technology extracts the ticket numbers, and the information is saved into the database. The admin sets the foreign exchange rate for Thailand baht to Laos kip and inputs the sales price of the tickets. When a user purchases a ticket, the admin must approve the deposit receipt before the user can see the ticket in his dashboard. If a user wins, the admin staff or support will guide the user on how to claim the prize.

D. Frontend Modules

1. Homepage

A visually appealing page that welcomes users to the website and provides a brief overview of what the website is all about—and a direct access to searching lottery tickets.

2. Sign Up/Login

A feature that allows users to create accounts and log in to the website. Users can sign up with their mobile phone numbers, verify and login to their accounts using an SMS OTP.

3. Ticket Purchase

A page that allows users to purchase Thailand lottery tickets online. Users can select the number of tickets they want to buy and add them to their shopping cart. Users can also purchase tickets for someone else (e.g being an agent), where they can input the recipient's mobile number. This can be in the same Homepage as well.

4. Payment

A secure payment gateway where users can pay for their purchased tickets online using their preferred payment method (manual bank transfer for now), such as Lao QR image scanning or direct bank account transfer (may consider direct banking payment gateway / API in the future). Users have to upload successful payment screenshot during checkout. Users should be able to see the total cost of their purchase, including any applicable fees.

5. Dashboard

A user account page where users can view their purchased tickets and their status (i.e., pending, approved, or rejected). Users can also see their ticket purchase history, winnings, etc.

6. Contact and Support

A page where users can contact the support team via LINE Official Account.

7. Language Support

Since the target market is Laos, having an option to change the language of the website to Laos or other local languages would be beneficial. Language toggle to include:

- Laos (Default)
- English
- Simplified Chinese
- Thai

The application default database will be written in English language, while the various other languages will be manually translated.

8. News and Announcements

A page or section that provides updates and news regarding the Thailand Lottery, such as recent winning numbers, announcements, and changes in the lottery rules.

E. Backend Modules

1. Dashboard

This is the main page of the admin panel which displays an overview of the platform's activities, such as the total number of users, tickets sold, and revenue generated.

2. User Management

This module allows the admin to manage user accounts, including user registration, authentication, and verification.

3. Ticket Management

This module enables the admin to manage the lottery tickets, including adding new tickets, updating ticket information (e.g special price sets of numbers), and deleting tickets.

4. Payment Management

This module allows the admin to manage payment transactions, including payment verification and confirmation.

5. Sales Reports

This module provides the admin with detailed reports on the sales performance of the platform, including revenue generated, ticket sales, and commissions earned by agents.

6. Winner Management

This module enables the admin to manage the winners of the lottery, including verifying their identities and facilitating the prize claims process.

7. Agent Management

This module allows the admin to manage the agents who are selling lottery tickets, including their commission rates, sales performance, and payouts.

8. Admin Management

This module allows the super admin to manage other super admins and sub-admins.

9. Settings

This module enables the admin to manage the general settings of the platform, such as the exchange rate, pricing, and other configurations.

10. Audit Log History

This module allows the Super admin to view backend activities including login and logout timestamps and device types, admin and sub-admin accounts' editing changes etc

F. Key Functionalities

The Thailand Lottery Web App project is a web app only project which will be designed to be mobile responsive for popular mobile web browsers <>force to go to LINE app>. It shall have the following functionalities:

User Access Role	Key Functionality
Guest Users	<p>Home Page</p> <ul style="list-style-type: none"> - Visitors can browse the Home Page, which already lists the available lottery tickets for purchase. <p>Search Lottery Tickets</p> <ul style="list-style-type: none"> - Visitors/Users can look up lottery ticket numbers as well. <p>Add to Cart</p> <ul style="list-style-type: none"> - A guest user cannot make a purchase without logging in; at checkout, he will be prompted to enter his mobile phone number in order to register. <p>Language Toggle</p> <ul style="list-style-type: none"> - Laos (default) - English - Simplified Chinese - Thai - All above languages are manually translated. Chinese will be provided by our team and the rest will be provided by Bazio. We will <u>not</u> use Google Translate API due to localized inconsistencies. <p>Terms and Conditions</p> <ul style="list-style-type: none"> - Client will provide <p>About</p> <ul style="list-style-type: none"> - Client will provide
Registered Users	<p>Register/Login</p> <ul style="list-style-type: none"> - Via valid mobile phone number only (any country code) <p>2FA</p> <ul style="list-style-type: none"> - Thru SMS OTP only, will use Twilio SMS API <p>Profile</p> <ul style="list-style-type: none"> - First Name - Last Name - Phone Number (pre-filled, but if user edit, then next time the new login number will be this number and SMS OTP goes to this updated

	<p>number)</p> <ul style="list-style-type: none"> - Bank Account information (Full Name, Bank Name, Bank Account Number) <p>App Notifications (via Line notification function)</p> <ul style="list-style-type: none"> - Notify user when deposit receipt is approved and tickets display already (after admin approves) - Notify user when the draw is done and over (TBC will incur cost once platform has thousands of users and there is daily draws) - Notify user when he has a winning ticket - Notify agent that purchased ticket(s) is a winning ticket - Notify user if a previously searched but unavailable lottery number is now available, and user click on “Notify me if this number becomes available” <p>Dashboard</p> <ul style="list-style-type: none"> - To show active and past tickets (Toggle: Active, Past) - To show draw dates, winning amount and winning numbers (to be pulled out thru API https://github.com/rayriffy/thai-lotto-api) <p>Transaction History</p> <ul style="list-style-type: none"> - View ticket purchase dates and amounts - View winning ticket draw dates and amounts <p>Purchase Lottery Tickets in Home Page</p> <ul style="list-style-type: none"> - Can search for lottery ticket numbers of his choice, but will depend on the availability of uploaded tickets for that day - Can click “Random” button to randomly generate a random ticket number that is available for purchase - Can click sets of 2, 3, 4, 5 and will display available lottery tickets that can be purchased multiple with the same ticket number. When in sets, the tickets appear to be on stack with one another (exact dynamic ticket sets creation to be further clarified before commencement) - Displayed tickets can be added to Cart <p>Cart</p> <ul style="list-style-type: none"> - To display items that are added to cart for purchase <p>Checkout</p> <ul style="list-style-type: none"> - Checkout process will bring user to see the pending tickets “reserved” for them, with a countdown timer that user must make payment within duration. Screen will show the static QR code image, and also bank account information in text (copy to clipboard function). - User will separately deposit the amount externally via their banking apps - User need to upload screenshot of successful transaction and submit - User MUST choose either radiobox option for “I am buying for myself” or “I am buying as an agent”. If user choose agent option, then an additional input field for “Customer Mobile” appears. User must key in
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	<p>the end customer's mobile number with country code so that platform will notify the end customer (via SMS) if they have any winning ticket.</p> <ul style="list-style-type: none"> - There is also an optional input field for "Referral Code" and a "Apply" button which when clicked, system will have validation to check if code exist in database, there is no discount whatsoever, but just for system to track how many times referral code used so the company knows if certain Affiliates are working hard to onboard more users to the platform. - The system will reserve or lock the ticket or set depending on which user clicks it first; anyone else who clicks will see "This ticket is no longer available." Users can see "Notify me if this number becomes available" (only on last 2 and last 3 digits lottery types) - There is a system time lapse logic that is dynamic; if the admin never approves the ticket purchase (that is, the admin never approve the user's uploaded screenshot, or reject the screenshot), the ticket/set will automatically be made available on the frontend for new purchases and reserved ticket will disappear from the user's cart (if hit the countdown time) and user's pending tickets (if hit the countdown timer). - Once admin approved, the tickets will be displayed in the user's dashboard (take note if user is a "tentative agent" then tickets also will appear in end customer's dashboard), and user (or "tentative agent" and end customer) both receive SMS notification <p>Apply as Agent</p> <ul style="list-style-type: none"> - Apply as agent if user wants to become an agent who will earn commissions and sales from lottery tickets - User clicks "Apply as Agent", admin receives notification to approve or not. When approved his role as user will become agent - User needs to fill up required information at the start (if applying as Agent and not currently in checkout process) to collect any ticket sales earnings or winning ticket commissions <p>Logout</p> <ul style="list-style-type: none"> - Log out the user
Registered Agents	<p>Register/Login</p> <ul style="list-style-type: none"> - Via valid mobile phone number only (any country code) <p>2FA</p> <ul style="list-style-type: none"> - Thru SMS OTP only <p>Manage Account Profile</p> <ul style="list-style-type: none"> - First Name - Last Name - Phone Number - Bank Account information (Full Name, Bank Name, Bank Account Number)

	<p>Purchase Lottery Tickets in Home Page</p> <ul style="list-style-type: none"> - Can search for lottery ticket numbers of his choice, but will depend on the availability of uploaded tickets for that day - Can click "Random" button to randomly generate a random ticket number that is available for purchase - Can click sets of 2, 3, 4, 5 and will display available lottery tickets that can be purchased multiple with the same ticket number. When in sets, the tickets appear to be on stack with one another (exact dynamic ticket sets creation to be further clarified before commencement) - Displayed tickets can be added to Cart - Agent can buy tickets for both themselves and also for customers. At the point of checkout, the platform will ask if buying for customer. When in checkout page, the platform will ask the person's mobile phone number so that end customer will get notified after agent bought lottery tickets <p>Cart</p> <ul style="list-style-type: none"> - To display items that are added to cart for purchase <p>Checkout</p> <ul style="list-style-type: none"> - Checkout process will bring Agent to see the pending tickets "reserved" for them, with a countdown timer that Agent must make payment within duration. Screen will show the static QR code image, and also bank account information in text (copy to clipboard function). - Agent will separately deposit the amount externally via their banking apps - Agent need to upload screenshot of successful transaction and submit - Agent MUST choose either radiobox option for "I am buying for myself" or "I am buying as an agent". If Agent choose agent option, then an additional input field for "Customer Mobile" appears. Agent must key in the end customer's mobile number with country code so that platform will notify the end customer (via SMS) if they have any winning ticket. - There is also an optional input field for "Referral Code" and a "Apply" button which when clicked, system will have validation to check if code exist in database, there is no discount whatsoever, but just for system to track how many times referral code used so the company knows if certain Affiliates are working hard to onboard more users to the platform. - The system will reserve or lock the ticket or set depending on which user (user means direct customer or Agent) clicks it first; anyone else who clicks will see "This ticket is no longer available." Agent can see "Notify me if this number becomes available" (only on last 2 and last 3 digits lottery types) - There is a system time lapse logic that is dynamic; if the admin never approves the ticket purchase (that is, the admin never approve the Agent's uploaded screenshot, or reject the screenshot), the ticket/set will automatically be made available on the frontend for new purchases and reserved ticket will disappear from the Agent's cart (if hit the countdown time) and Agent's pending tickets (if hit the countdown
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	<p>timer).</p> <ul style="list-style-type: none"> - Once admin approved, the tickets will be displayed in both the Agent's dashboard and end buyer's dashboard, and they receive SMS notification <p>App Notifications</p> <ul style="list-style-type: none"> - Notify agent when deposit receipt is approved and tickets display already in the agent's and end buyer's dashboards - Notify agent when one of his users has a winning ticket <p>Dashboard</p> <ul style="list-style-type: none"> - To show list of users who bought tickets from him and how many tickets (displays the mobile phone number as the unique ID) - To show draw dates, winning amount and winning numbers (to be pulled out thru API https://github.com/rayriffy/thai-lotto-api) <p>Earnings</p> <ul style="list-style-type: none"> - Displays total earnings based on the 1% commission of winning tickets - Displays total sales earnings from tickets sales - Displays weekly and monthly chart and report of earnings - Commission reports (with from date and end date filter) - Ticket sales earnings reports (with from date and end date filter) <p>Logout</p> <ul style="list-style-type: none"> - Log out the agent
Super Admin	<p>Super admin can do CRUD (create, read, update and delete) records from all modules.</p> <p>Login</p> <ul style="list-style-type: none"> - Developer assigned admin credentials - Via mobile number and OTP (sent by system to mobile number with country code) <p>Admin Profile</p> <ul style="list-style-type: none"> - First Name - Last Name - Mobile no. (can change) <p>Dashboard</p> <ul style="list-style-type: none"> - Total number of registered users - Total number of registered agents - Total number of tickets sold - Total revenue generated - Bar chart showing ticket sales by per day for past 7 days - Bar chart showing ticket sales by per week for past 4 weeks - Bar chart showing ticket sales by per month for past 3 months - Heat map (with start and end date) of each province (close estimation)

	<p>of ticket information (percentage of tickets over total tickets, numbers of tickets over total ticket, also differentiate by direct customers and agent purchases) sold by location via IP</p> <ul style="list-style-type: none"> - Line graph showing revenue over time (2 different colour coded lines: Agent sales, direct sales) - Line graph showing winnings over time (X different colour coded lines: 2 digits winnings, 3 digits winnings, and other digital types), when mouseover can see total winning amounts per data point <p>User Management</p> <ul style="list-style-type: none"> - Users Table <ul style="list-style-type: none"> - First name, last name (if users filled up in their profile settings) - Phone Number - Bank information (if user filled up: Full Name, Bank Name, Bank Account Number) - Date registered (first day purchased tickets) - No. of Tickets Purchased - Amt spent - No. of Tickets Won - Amt won - Role <ul style="list-style-type: none"> - Super Admin - Sub-Admin - Agent - User - Status <ul style="list-style-type: none"> - Active - Inactive - Action <ul style="list-style-type: none"> - Edit - Deactivate/Re-Activate - Search User <ul style="list-style-type: none"> - Search field - Export data to CSV <ul style="list-style-type: none"> - Export button - Sort <ul style="list-style-type: none"> - By clicking on the headers - Lists by default all the most recent registered users on top of the table - Pagination - Messaging tool to allow admin to create a message and send Line notification to all users - Filter <ul style="list-style-type: none"> - By Status - By Role <p>Ticket Management</p> <ul style="list-style-type: none"> - Tickets Table <ul style="list-style-type: none"> - Ticket Number - No. of Set available/No. Of tickets
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	<ul style="list-style-type: none"> - No. of tickets purchased (for this ticket number) - A smaller, compressed image version of the actual ticket (when clicked, pops up a bigger compressed image) - Date ticket is uploaded - Ticket price - Ticket Type <ul style="list-style-type: none"> - Common - Special - Action <ul style="list-style-type: none"> - Edit (ticket number or reupload photo) - Hide (don't make it available)/Unhide - Delete - Status <ul style="list-style-type: none"> - Live - Hidden - Lists by default all the most recent tickets added on top of the table - Add ticket Method 1: Refer to provided video on scanning method, Upload Ticket (JPG/PNG, can upload multiple at once) - OCR Technology to extract the ticket numbers (always in fixed area of each image position) and save it to database - Watermark technology to add watermark (always in fixed area of each image position) to uploaded ticket photos and make sure barcode or QR code is not scannable as they are covered - SPECIAL NUMBERS tab: a separate table of numbers which are tagged as "Special numbers" which may be more expensive than the rest <ul style="list-style-type: none"> - Add Special number (from uploaded tickets which by default is "common" using dropdown method) - Ticket price - Add ticket Method 2: button to manually add a ticket number in the database (take note this is very sensitive, must be properly governed under access control module) <ul style="list-style-type: none"> - Ticket number input field - No. of tickets for sale input field - Add ticket Method 3: Import CSV to easily bulk upload ticket numbers if actual ticket is not yet ready to be scanned (and only ticket numbers are available) - A standalone function to upload/update <u>current</u> Ticket Image Template (using real current ticket from scanning) which the ticket background will be used for manually inputted ticket numbers or CSV uploaded ticket numbers (because these are tickets that are secured but not yet physically with the company). Admin must upload 1 real ticket per draw otherwise if admin try to manually key in available ticket numbers, or try to upload CSV file, system will prompt that "Please upload a real ticket for upcoming draw before submitting manual ticket numbers." - Add ticket Method 4: Add a start range and end range input fields, at the right of each row there is "Add New Range" button. Example 123001 to 123999. System will populate the whole list of ticket numbers including the 2 inputted numbers. Refer to wireframe.
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	<ul style="list-style-type: none"> - Draw Date is displayed which can be edited (calendar dropdown menu). Side note for knowledge: typically Thailand lotteries are once every 15 days, and can be shifted if the draw date falls on a holiday - Clear Tickets function: Once a draw is over, past tickets information are automatically archived under past draws (keep past draw ticket images in compressed format up to 2 draws which is 30 days. Cron job to automatically delete once its 2 draws later) - Pagination - Filter <ul style="list-style-type: none"> - By Status - By Ticket Type <p><u>Payments Management</u></p> <ul style="list-style-type: none"> - Payments Table (Automatic generate a new row immediately after a user/agent submit payment transaction slip screenshot image and click "Submit" at checkout) <ul style="list-style-type: none"> - Purchase Date in DD/MM/YYYY format (of tickets by the user) and time (HH:MM:SS in 24 hour format) in Vientiane timezone - First and Last Name (of user or agent who purchased the tickets), will be empty unless user/agent fill their names into their profile settings - Mobile Phone number (of user who purchased the tickets) - No. of Tickets Purchased and ticket information - Ticket Purchase Amount Paid - Small and compressed image of the ticket purchase payment receipt uploaded by the user/agent (when clicked, pops up a bigger compressed image) - Action <ul style="list-style-type: none"> - Approve (if ticket purchase payment receipt is uploaded, the tickets will now display in the user's dashboard) - Reject (for any reason, tickets won't show in user's dashboard), and Admin must state a reason in an input field (mandatory) - Status <ul style="list-style-type: none"> - Approved - Rejected - Pending - Lists by default all the most recent pending payments/purchases from top of the table - Search Payment/Purchase <ul style="list-style-type: none"> - Search field - Export data to CSV <ul style="list-style-type: none"> - Export button - Sort <ul style="list-style-type: none"> - By clicking on the headers - Pagination - Filter <ul style="list-style-type: none"> - By Status <p>— FUTURE: integrate third party payment gateways such as Stripe (out</p>
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	<p>of this scope)</p> <ul style="list-style-type: none"> - After admin approve a ticket purchase(s) transaction row (user/agent upfront will display the ticket purchased and received notification) <p><u>Sales Reports</u></p> <ul style="list-style-type: none"> - More detailed reports of: <ul style="list-style-type: none"> - Revenues generated - Tickets Sold - Sales performance (daily, weekly, monthly) - Rejected deposits by admins (showing which admin rejected, the date and time, and the reason per rejected transaction) - Affiliate codes used (shows list of affiliate codes and number of times used) - Filter <ul style="list-style-type: none"> - Date range - Ticket Type - Popular Ticket Sold - Top Performing Agents <ul style="list-style-type: none"> - Earnings from Sales Tickets - Commission from Winning Tickets - Geographic Distribution of Sales (text format, based on heat map of sales distribution, e.g clear table format of province, ticket types, ticket sales, agents, users etc) - Export report function (CSV and PDF) <p><u>Payout & Winner Management</u></p> <ul style="list-style-type: none"> - Winning Ticket Table (Automatic generation upon draw results) <ul style="list-style-type: none"> - Winner/s Names (No rows if there are no winners for a draw, and if there are winners but winner never fill up name in profile settings, then name cell is empty) - Draw Date - Winning Numbers - Type of Lottery Won <ul style="list-style-type: none"> - 6 digits - 3 digits etc - Other combinations - Winning Amount (95% to User / 1% commission to agent / per ticket sales) - Ticket Type <ul style="list-style-type: none"> - Common - Special - Purchaser ("Direct" or "Via Agent") - Referral Code (empty if no affiliate code entered during checkout) - Bank account information (will be empty if user never fill up in their profile settings) - Status <ul style="list-style-type: none"> - Pending (Default status; earnings not yet paid out) - Claimed / Paid (already paid to different scenarios: pay
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	<p>to end customer as a winner, pay to agent for either ticket sales or winning ticket commission)</p> <ul style="list-style-type: none"> - Action (change status from dropdown action) <ul style="list-style-type: none"> - Pending (default) - Claimed / Paid - Edit (pencil button) - Filter <ul style="list-style-type: none"> - Draw Date (Date Range) - Type of Lottery Won - Ticket Type - Status - This module should automatically display the winning tickets' number and amount won, and it should be able to detect if there are winning tickets in the system. - The admin should be able to update the winners' list and edit the winning amount if needed. - Reports (with filter function) <ul style="list-style-type: none"> - Total number of winners - Total amount of winnings - Winners per draw - Company profits (4% of filtered total winnings amount) - Lists by default all the most recent winners of the most recent draw on top of the table who are pending, followed by most recent winners who are claimed status - Search Winners or Winning Tickets <ul style="list-style-type: none"> - Search field - Export data to CSV <ul style="list-style-type: none"> - Export button - Sort <ul style="list-style-type: none"> - By clicking on the headers - Pagination
	<p><u>Agent Management</u></p> <ul style="list-style-type: none"> - Agents Table <ul style="list-style-type: none"> - First name, last name (empty until filled by agents in their profile, unless created by Admin) - Phone Number - Bank information (Full Name, Bank Name, Bank Account Number) - Date registered - Affiliate code (by default is empty, unless Admin assign a unique ID, alphanumeric e.g "Win008") - No. of Tickets Sold - No. of Tickets Won - No. of Users Referred/Bought Tickets For - Earnings from Sold Tickets - Commission from Winning Tickets - Total Earnings to Date - Total Payout Received

	<ul style="list-style-type: none"> - Total Pending Payout - Commission Rate (of this Agent, default 1%) - Status <ul style="list-style-type: none"> - Pending (means haven't filled up information to receive any ticket sales or winning ticket commissions) - Active - Inactive - Action <ul style="list-style-type: none"> - Approve (as agent) - Deactivate (must contract admin to make him active again) - Filter <ul style="list-style-type: none"> - Status - Lists by default all the most recently pending agents followed by recently approved agents from top of the table - Search Agents <ul style="list-style-type: none"> - Search field - Export data to CSV <ul style="list-style-type: none"> - Export button - Sort <ul style="list-style-type: none"> - By clicking on the headers - Pagination - Admin can also create new agent accounts by clicking a “Add Agent” button, and will need to fill in required information: <ul style="list-style-type: none"> - First name, last name - Phone Number - Affiliate code (optional) <p><u>Admin Management</u></p> <ul style="list-style-type: none"> - Admins Table <ul style="list-style-type: none"> - Name (or Username) - Phone Number - Date Added - Type <ul style="list-style-type: none"> - Super Admin - Sub-Admin - Status <ul style="list-style-type: none"> - Active - Inactive - Action <ul style="list-style-type: none"> - Edit - Activate/Deactivate - Filter <ul style="list-style-type: none"> - Status - Type - Enlists by default all the most recently added admins on top of the table - Search Admins
--	--

- Search field
- Export data to CSV
 - Export button
- Sort
 - By clicking on the headers
- Pagination
- “Add Admin” button
 - Set username (or name),
 - Mobile Number (the newly created admin will need to input mobile number and key in received SMS OTP to login)
 - Type
 - Super admin
 - Sub-admin
 - Modules Access Control (checkboxes – only appears if sub-admin is selected)
 - If super admin is selected, automatically he has access to all modules
 - User Management (Create, View, Edit/Update)
 - Ticket Management (Create, View, Edit/Update)
 - Payment Management (View, Edit/Update)
 - Sales Report (View, Export)
 - Payout & Winner Management (View, Edit/Update)
 - Agent Management (Create, View, Edit/Update)
 - Settings

Audit Log History

- view a log of all activities performed by super admin and sub-admin accounts
- Date and time of activity
- Module accessed and edit/update action performed
- Name (or username) of admin who performed the activity
- Pagination with latest actions tracked at top of table
- Date filter and CSV export function

Settings

- General Settings
 - Language toggle on admin panel (default is also Laos language, same as frontend)
- Security Settings
 - Enable mandatory 2FA for Super admins
 - Set optional 2FA function for sub-admins
- Payment Settings (input fields for Admin to update company's bank account information)
 - Payment process (manual bank deposit)
 - Company Account number
 - Company Account name
 - Company Bank name
 - Instructions on how to pay
 - OPTIONAL: QR Code image

	<ul style="list-style-type: none"> - Dynamic Payment countdown time (admin can set 15 mins or 30 mins or 1 hour. When edited and saved new setting, it will take effect immediately) - Tickets Settings <ul style="list-style-type: none"> - Price of Common Tickets - Price of Special Tickets - Default & Adhoc Price per Set - Foreign Exchange Settings <ul style="list-style-type: none"> - Thai baht to Laos KIP conversion (manual input - the default currency displayed in frontend user is Laos KIP) <p>Notifications</p> <ul style="list-style-type: none"> - A bell on the header <ul style="list-style-type: none"> - Notify admin if there is already result in the most recent draw - Notify admin if there is a winning ticket in the database and there are winners who purchased it <p>Logout</p> <ul style="list-style-type: none"> - Logout the admin - Session timeout: 6 hours
Sub Admin	<ul style="list-style-type: none"> - Same login method as Super Admin - Does not have access to Admin Management - Has access to whatever module is assigned to this Sub Admin by the Super Admin

G. Competitor Reference

The competitor reference is <https://www.hongthongofficial.com/>. This will also serve as the brand guide and theme: <https://page.line.me/?accountId=hongthonglottery>

คิดถึงล็อตเตอรี่ คิดถึงหงษ์กอง

✓ ซื้อง่าย ✓ จ่ายเต็ม

ผลสลากกินแบ่งรัฐบาล
งวดประจำวันที่ 16 กุมภาพันธ์ 2566

รางวัลที่ 1	รางวัลเลขหน้า 3 ตัว	รางวัลเลขท้าย 3 ตัว	รางวัลเลขท้าย 2 ตัว
590417 รางวัลละ 6,000,000 บาท	664 195 2 รางวัลละ 4,000 บาท	523 377 2 รางวัลละ 4,000 บาท	80 รางวัลละ 2,000 บาท

ทำไม ? ต้องซื้อ-ขายล็อตเตอรี่ออนไลน์กับหงษ์กอง

หงษ์กอง.COM ที่มีรางวัลที่ 1 สั่งซื้อได้ตลอด 24 ชม....
● เปิดร้าน

หงษ์กอง.COM ที่มีรางวัลที่ 1
สั่งซื้อได้ตลอด 24 ชม....
● เปิดร้าน

หงษ์กอง สลากกินแบ่งรัฐบาล ออนไลน์

ค้นหาล็อตเตอรี่
กรอกเลขล็อตเตอรี่ที่ต้องการค้นหา

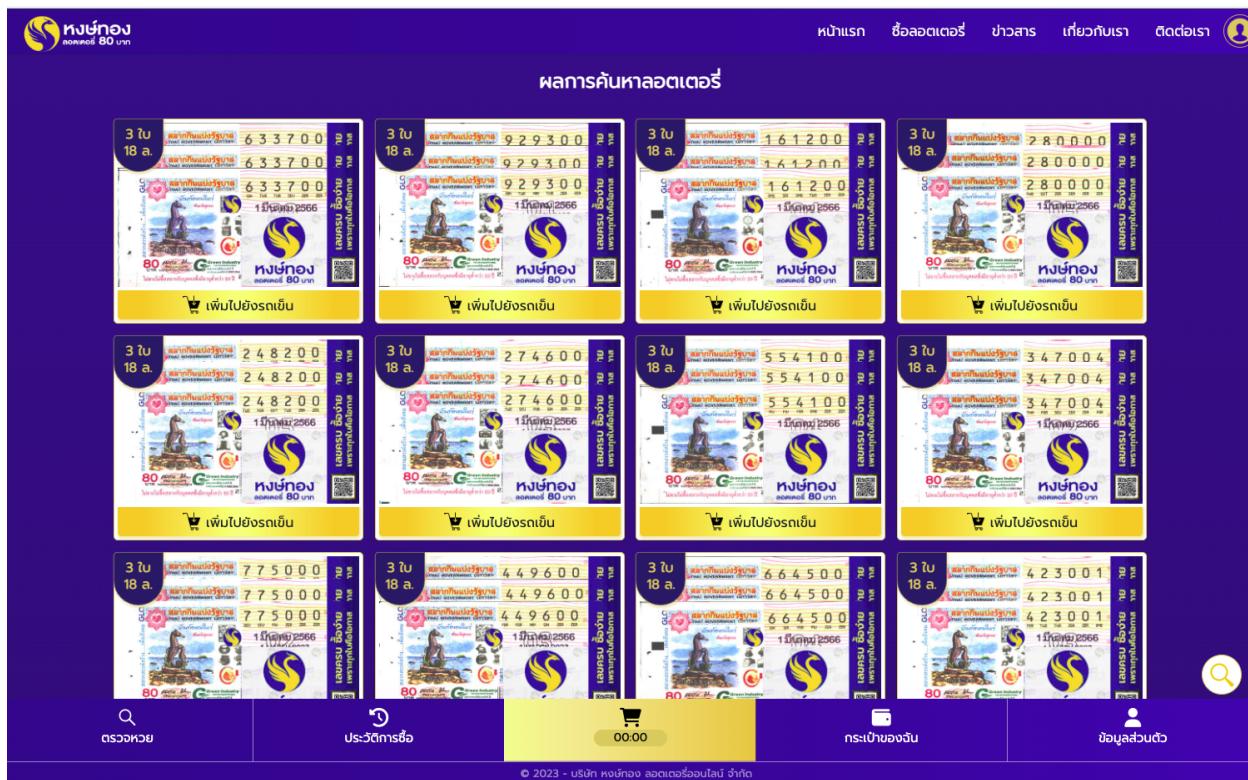
2	2	3	4	8	8
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ลบทิ้งหมุด คืนหาล็อตเตอรี่

ลุกทิ้งหมุด เลขสูง ในเดียว ขาด 2 ใบ ขาด 3 ใบ ขาด 4 ใบ
ขาด 5 ใบ ขาดให้ เลขหน้าล้วง

ดูวิธีการซื้อ ชำระเงิน

ชำระเงินด้วย



H. Technical Specifications

Technical specifications outline the systemic and functional needs to meet for the product to achieve the desired features and functionalities:

1. WEB BROWSERS

- Web app should work in different web browsers as listed but not limited to:
 - Chrome
 - Safari
 - Firefox
 - Microsoft Edge
 - Opera Browser

2. CLIENT/SERVER SYSTEM*

- All the data resides at the server sites. VPS must NOT be located in Thailand, bu ideally around APAC region. Client registers the business in Laos.
- All applications execute at the client sites.

3. DATABASE ARCHITECTURE, FRAMEWORKS, PLATFORM*

- Front end framework: TBD by the development team
- Back end framework: TBD by the development team
- Database: mySQL (or TBD by the development team)

4. APPLICATION PROGRAMME INTERFACES AND OTHER TECHNOLOGIES*

- Twilio API for SMS OTP and other notifications
- Thai Lotto API to display the most recent draws and winnings
<https://github.com/rayriffy/thai-lotto-api>
- OCR Technology TBD by development team
- Watermark technology TBD by development team

5. DEPLOYMENT/ENGINEERING*

- Website will be hosted on client's VPS (Laos)
- Domain as per client (Laos registered)

6. E-COMMERCE

- Manual bank deposit

I. Maintenance and Upgrade

Development team to provide SLA support for 1 month(s) but maintenance and upgrade in the future will be handled by the client after the support period, unless a new maintenance contract is executed.

J. Dependencies

To meet the objectives, the following has to be noted as dependencies:

- API's as stated under Technical Specifications
 - Admin credentials for admin dashboard once app is created
 - Domains and servers
-

K. Assumptions

- Web app will work in all mainstream web browsers
 - Web app will be mobile responsive for all OS and browsers
 - Web app can be developed in less than 6 months
-

L. General Assets

- Logos and favicons (to be provided by client)
 - Images and graphics to be used in web pages (to be provided by dev's UI team)
 - Videos (to be provided by client, if needed)
 - Web app description in required languages (to be provided by client)
 - Search keywords in required languages (to be provided by client)
-

M. Project Management

- Jira Software will be used as the main tool to manage this project, Sample screenshot below:

The screenshot shows a Jira Software interface for a project titled 'DPAAS Web App - DPO'. The left sidebar includes links for 'DPAAS board', 'Backlog', 'Active sprints' (which is selected), 'Reports', 'Releases', 'Issues and filters', 'Pages', 'Components', 'Add item', and 'Project settings'. The main area displays a Scrum board for 'DPAAS Sprint 1'. The board has columns: TO DO, IN PROGRESS, DONE, STAGING, TESTING, and LIVE. The 'TO DO' column contains issues: 'Features Page' (3), 'Upgrade Page' (4), 'About Us Page' (1), and 'Term of Use Page' (1). The 'IN PROGRESS' column contains issues: 'Landing Page - Pain Points' (2) and 'Landing Page - Features' (2). The 'DONE' column contains issues: 'DPAAS-1', 'DPAAS-4', 'DPAAS-5', and 'DPAAS-6'. The 'STAGING', 'TESTING', and 'LIVE' columns are currently empty.

- Communications will be on Whatsapp.