



Training Hub

Kiosk



Introduction

The system will showcase the history of HPI, provide brief background information about its partners, display images of its products, and include a photo booth feature with frames showcasing company partners of HPI and a QR code for HPI's contact information. Hosting and deployment will occur locally, accessible through a web browser. While primarily using the dedicated camera for the photo booth, the system will also seamlessly integrate with external cameras attached to the machine.

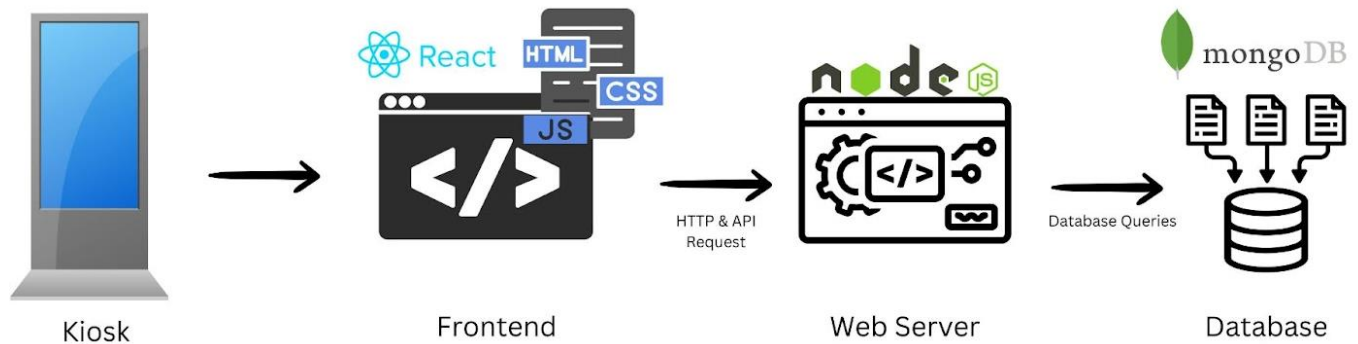
Software Requirements

The system requires a modern web browser with support for HTML5, CSS3, JavaScript, and WebGL to ensure optimal performance and compatibility with the application.

Development Tools

- MERN Stack: A full-stack JavaScript framework including MongoDB, Express.js, React.js, and Node.js for web development.
- HTML: Standard markup language for creating webpage structure and content.
- CSS: Style sheet language for defining webpage presentation and layout.
- JavaScript: Dynamic programming language for adding interactivity and behavior to web pages.

System Architecture

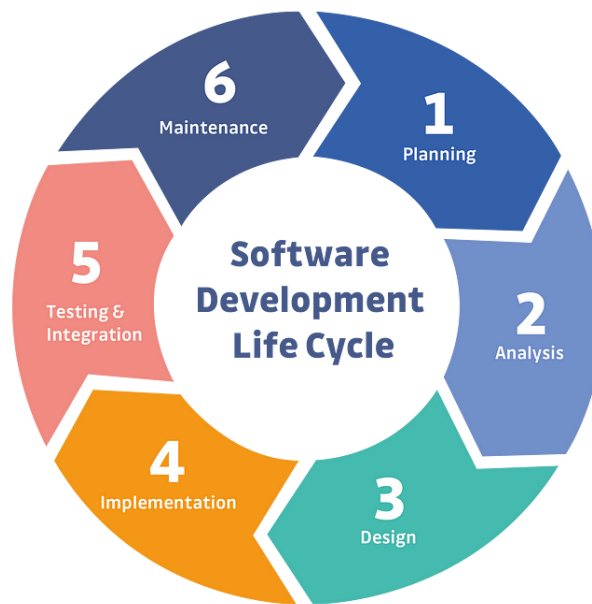


The kiosk application utilizes the following architecture:

- **Frontend:** Developed using HTML, CSS, JavaScript, and React, the frontend handles rendering the user interface and managing user interactions.
- **Web Server & Backend:** Powered by Node.js with Express.js, this component serves as both the web server and backend, handling incoming HTTP requests from the frontend and processing API requests, while also interacting with the MongoDB database.
- **Database:** MongoDB serves as the database system for storing and managing data.

Procedure of Development

SDLC will be utilized for this project because of its structured approach to development, ensuring systematic progress, risk management, and clear documentation throughout the software development lifecycle.



Phase 1: Planning Phase

Objective: Define project scope, goals, and requirements.

Deliverables: Project charter, requirements document, project plan.

Phase 2: Analysis Phase:

Objective: Gather and analyze user requirements, assess project feasibility.

Deliverables: Functional specifications, system requirements specification document.

Phase 3: Design Phase:

Objective: Design the system architecture, user interface, and database schema.

Deliverables: System design document, user interface prototypes, database design document.

Phase 4: Implementation Phase:

Objective: Develop and code the software based on the design specifications.

Deliverables: Executable software modules, source code, unit test cases.



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Phase 5: Testing & Deployment Phase:

Objective: Validate the software against requirements and deploy it to the production environment.

Deliverables: Test plan, test cases, defect reports, deployment plan, installation guides.

Phase 6: Maintenance Phase:

Objective: Provide ongoing support, maintenance, and updates to the software.

Deliverables: Maintenance plan, bug fixes, software enhancements.



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APPENDIX A

System User Manual

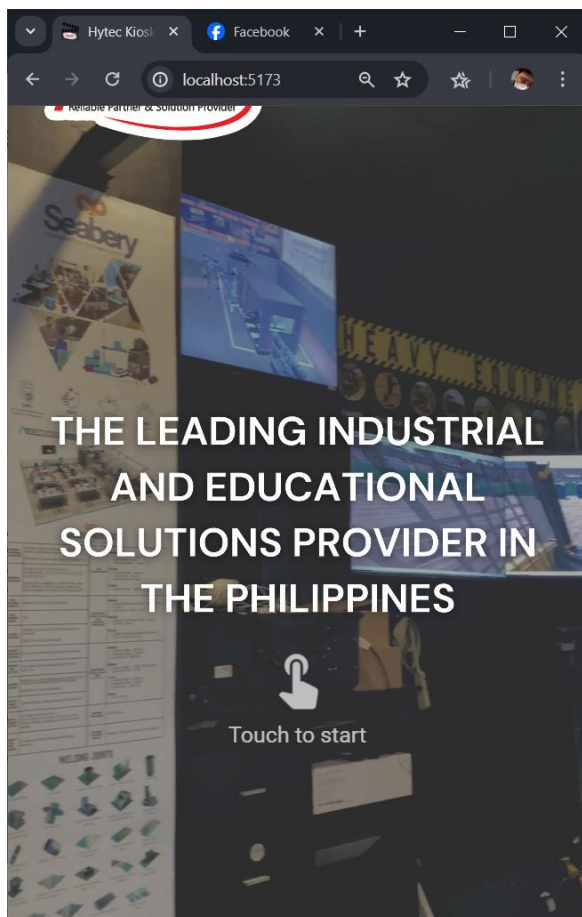
QUICKSTART GUIDELINE FOR USER:

1

A. How to Start KIOSK

To access "User Page", make sure you are here in <http://localhost:5173/>

How to Start



Step1: Touch the screen to start.

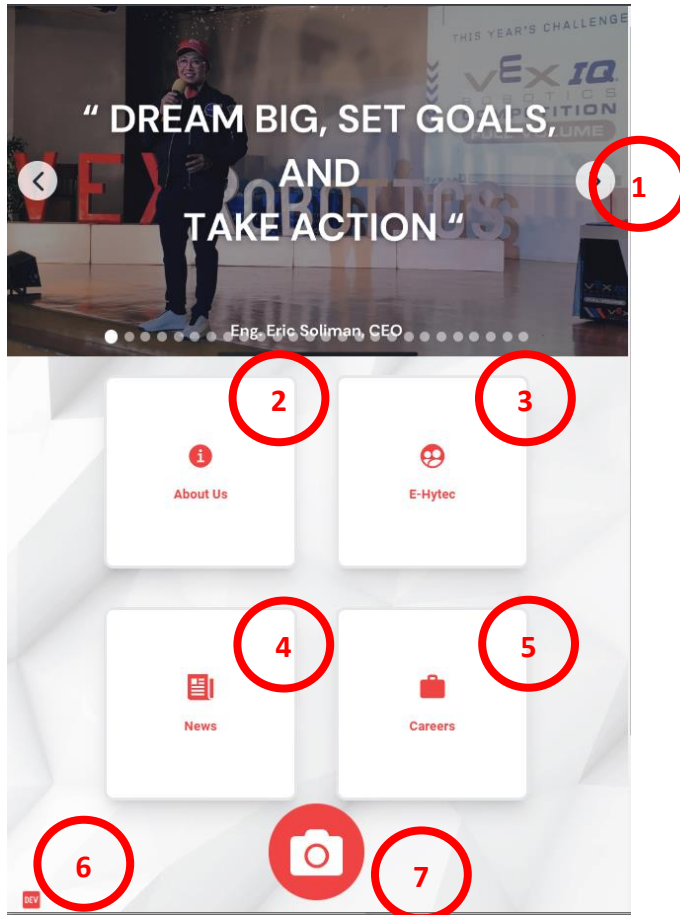
(This page will show up when the KIOSK are not using in a seconds)

QUICKSTART GUIDELINE FOR USER:

2

B. Getting Started (User Dashboard)

User Dashboard Page



Step1: User can interact with the slide show

Step2: User can view background of the Hytec Power Inc.

Step3: User can view the homepage website of the Hytec Power Inc.

Step4: User can view the News in the Hytec Power Inc.

Step5: User can view the carrers of the Hytec Power Inc.

Step6: User can view the developers of the KIOSK PhotoBooth.

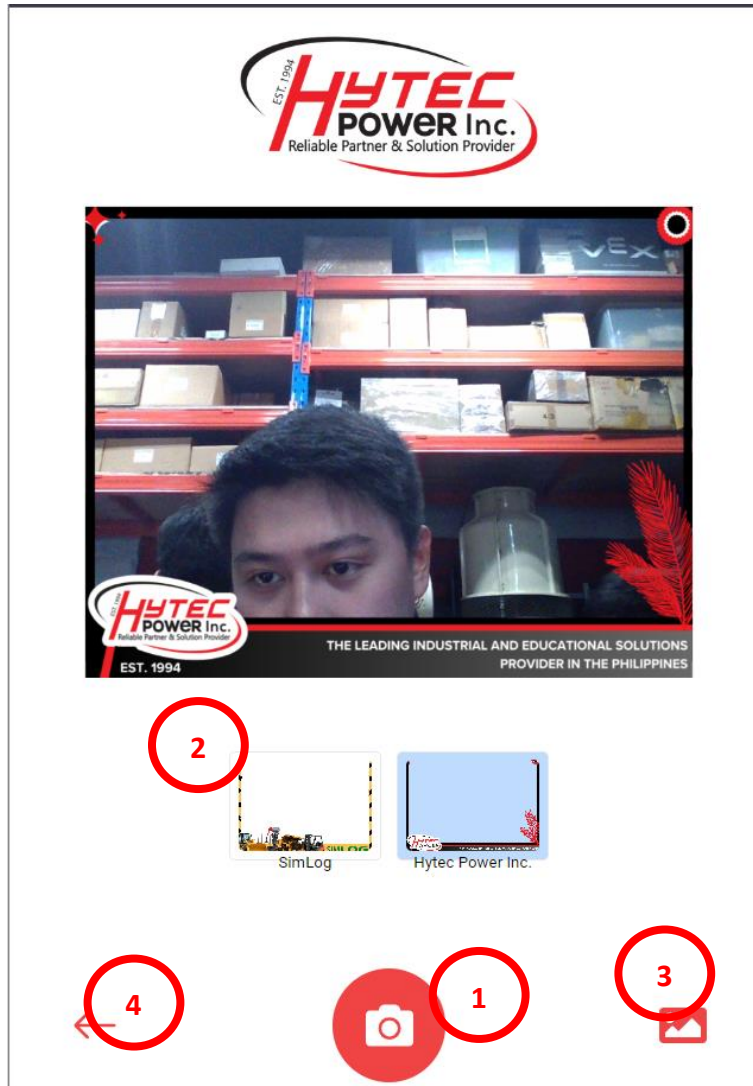
Step7: Camera button, will start the Photo Booth.

QUICKSTART GUIDELINE FOR USER:

3

C. Photo Booth Interface (User Photo Booth)

Photo Booth Page



Step1: Click “Button” to take a picture.

Step2: User allow to choice a frame background.

Step3: Click Image button to View Images

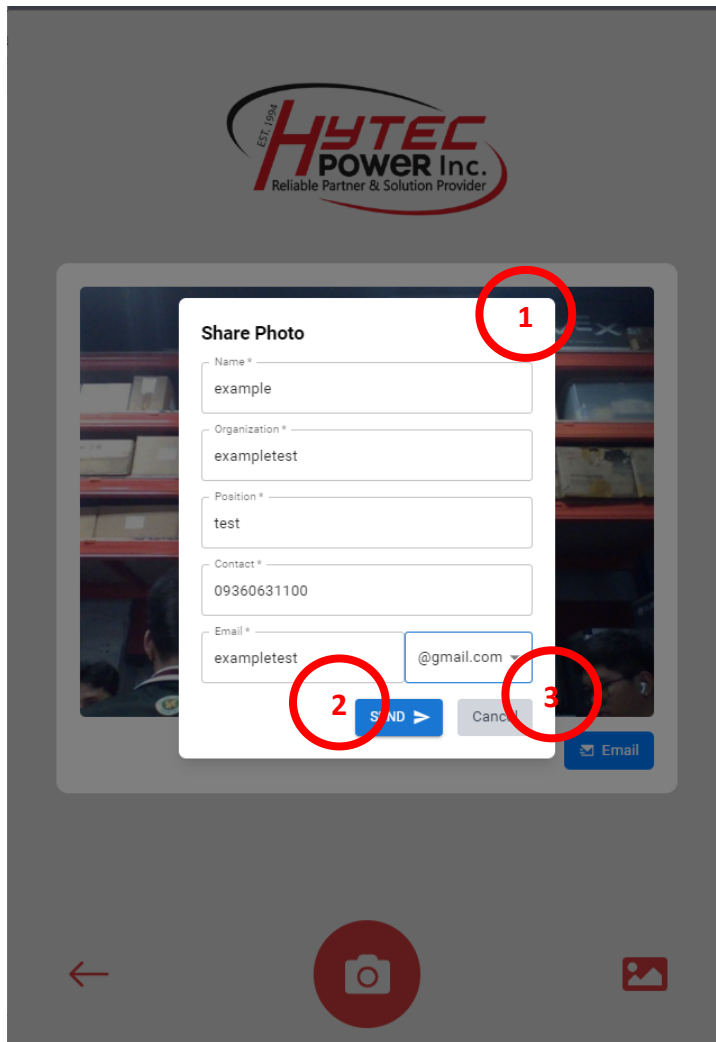
Step4: Click to go back at the home page.

QUICKSTART GUIDELINE FOR USER:

4

D. Taking a picture (User Photo Booth)

Photo Booth Page

A screenshot of a mobile application interface. At the top is the Hytec Power Inc. logo. Below it is a 'Share Photo' form with fields for Name, Organization, Position, Contact, and Email. The form is overlaid on a background image of a warehouse. Three red circles with numbers 1, 2, and 3 are placed on the form: circle 1 is around the top right corner of the form, circle 2 is around the 'SEND' button, and circle 3 is around the 'Cancel' button. At the bottom of the screen are three icons: a back arrow, a camera icon, and a gallery icon.

Step1: User will required to fill-up all in the form to continue.

Step2: **“Send”** to user email inputted.

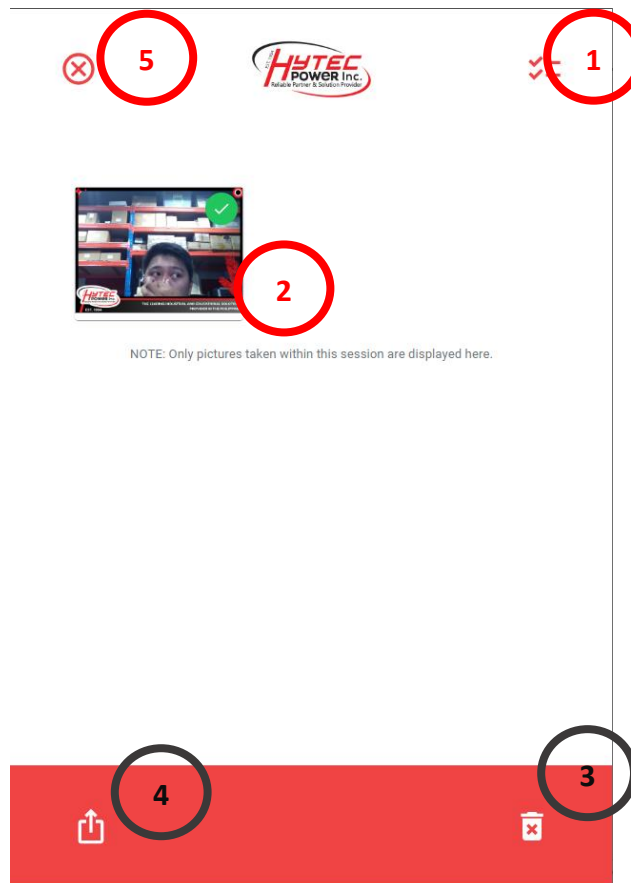
Step3: Click **“Cancel”** to go back

QUICKSTART GUIDELINE FOR USER:

5

F. Images Viewing (User Photo Booth)

Image Gallery View Page



Step1: Click to allow user to select

Step2: User allow to select any images.

Step3: Click "Button" to delete the selected image.

Step4: Click "Button" to send or share the image to the user email

Note: Admin User allow to multi-select the images to **"Share"**

Note: Admin User allow to multi-select the images to **"Share"**

Step5: Click "Button" to go back at the home page



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APPENDIX C

System User Admin Manual

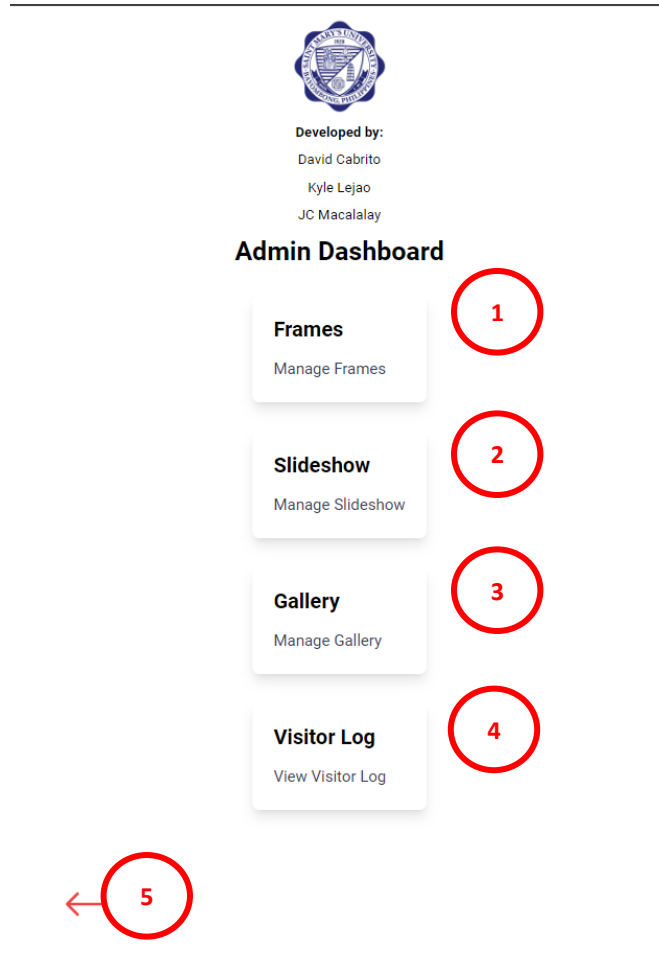
QUICKSTART GUIDELINE FOR ADMIN USER:

1

H. Admin Dashboard (Admin Landing Page)

To access "**Admin Page**", make sure you are here in <http://localhost:5173/admin>

Admin Dashboard Page



Step1: Click to manage the background "**Frames**".

Step2: Click to manage "**slideshow**".

Step3: Click to manage "**Gallery**".

Step4: Click to view "**Visitor Log**".

Step5: Click to Go back at the Landing Page (Idle page).

QUICKSTART GUIDELINE FOR ADMIN USER:

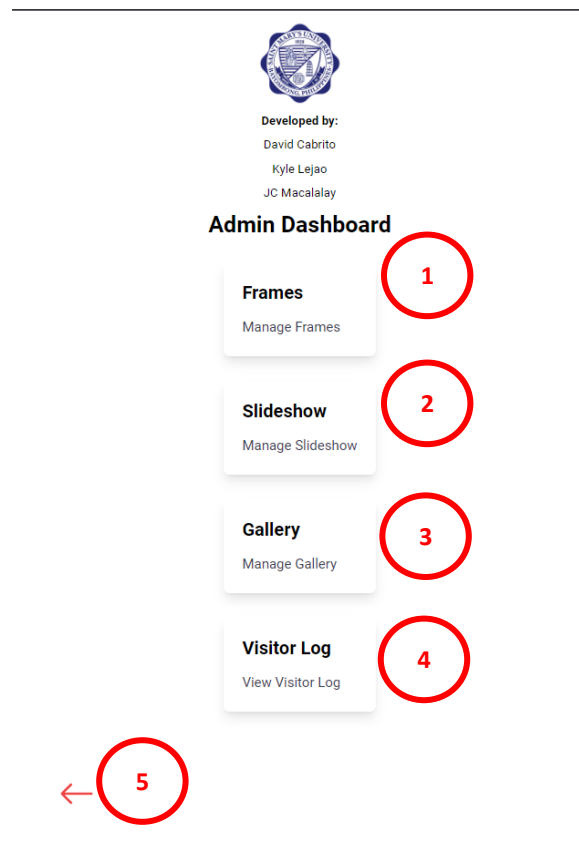
2

I. Manage Frames (Frames)

This landing page serves as the admin page, facilitating the redirection and management of specific assets within the web application.

To access "**Admin Page**", make sure you are here in <http://localhost:5173/admin>

Manage Frames



Step1: Click to manage the background "**Frames**".

Step2: Click to manage "**slideshow**".

Step3: Click to manage "**Gallery**"

Step4: Click to view "**Visitor Log**".

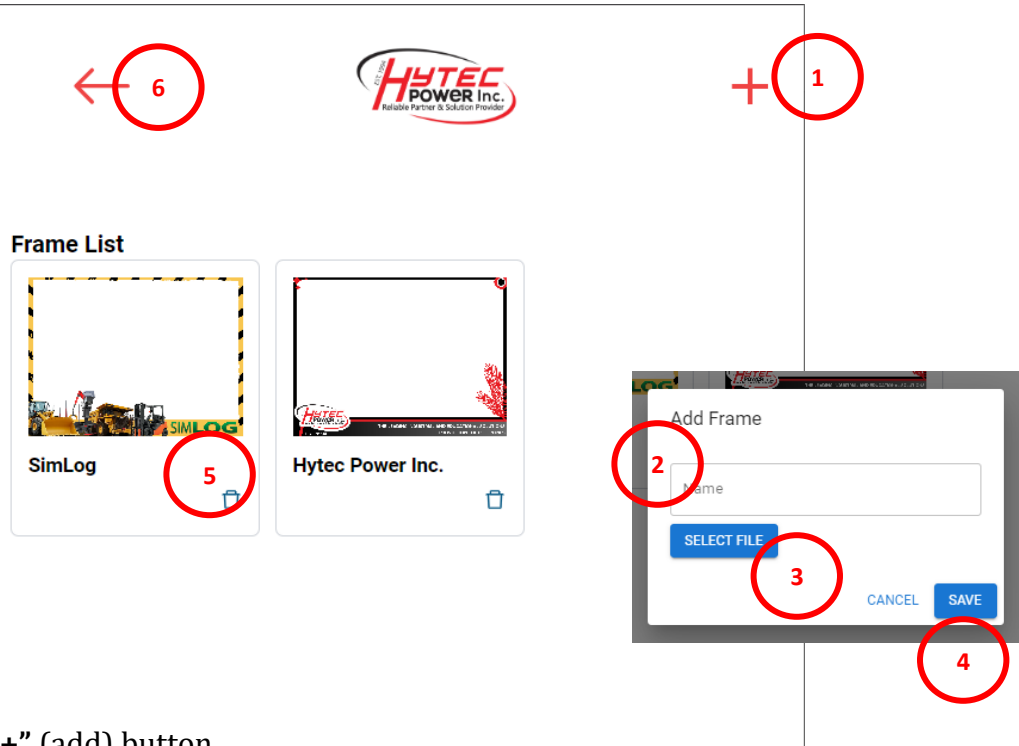
Step5: Click to Go back at the Landing Page (Idle page).

QUICKSTART GUIDELINE FOR ADMIN USER:

3

J. Add Frames (Frames Management)

Add Frames Page



Step 1: Tap the “+” (add) button.

Step 2: Input a Name for the New Frames.

Step 2: Tap “**Select File**”. A popup will open that will enable you to locate the desired frame.

Note: Frames size is 1980 x 1080.

Step 4: Tap “**Save**” to add the frame.

Step 5: Tap “**Delete**” to add the frame.

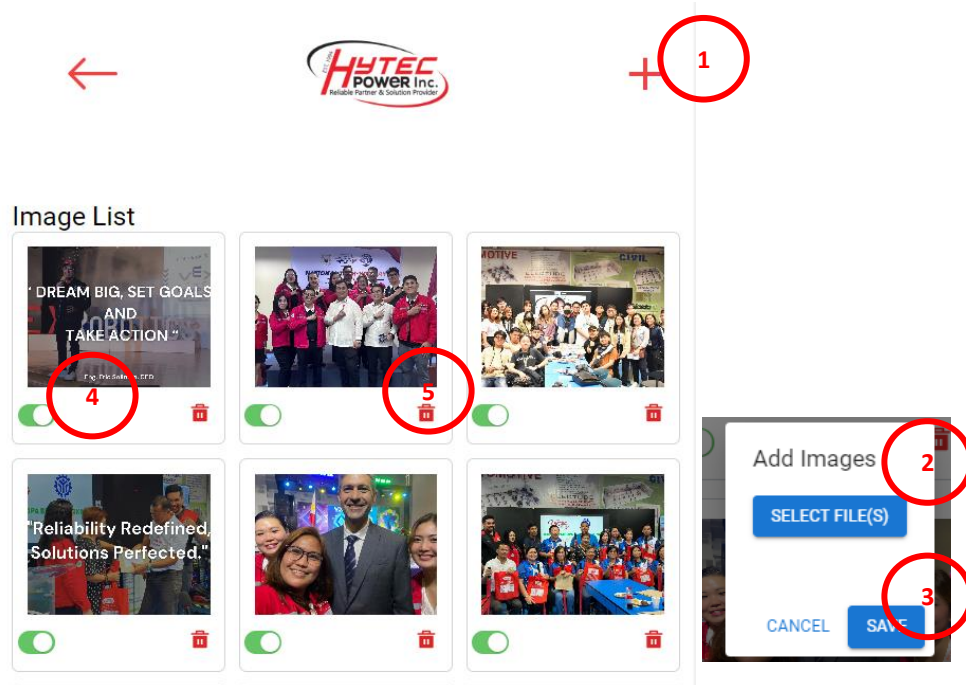
Step 5: Tap “**Go Back**” in home page.

QUICKSTART GUIDELINE FOR ADMIN USER:

4

K. Slideshow (Slideshow Management)

Slideshow Page



Step 1: Tap the (add) button.

Step 2: Tap **“Select File(s)”**. A popup will open that will enable you to locate the desired frame. **“+”**

NOTE: Multiple selection of images is accepted in this feature.

Step 3: Tap **“Save”** to add the image(s).

Step 4: If the toggle is green, the image will be shown in the slideshow carousel. If not, it will be hidden.

Step 5: Tap **“Delete”** to the image

QUICKSTART GUIDELINE FOR ADMIN USER:

5

L. Gallery (Gallery Management)

Gallery Page



NOTE: ALL of the captured images will ONLY be shown here.

Step 1: Tap to select any images.

Step 2: Admin User allow to select images

Step 3: Tap **"Delete"** to Image selected.

Step 4: Tap to **"Share"** The image selected.

Note: Admin User allow to multi-select the images to **"Share"**

Note: Required to fill-up the form.

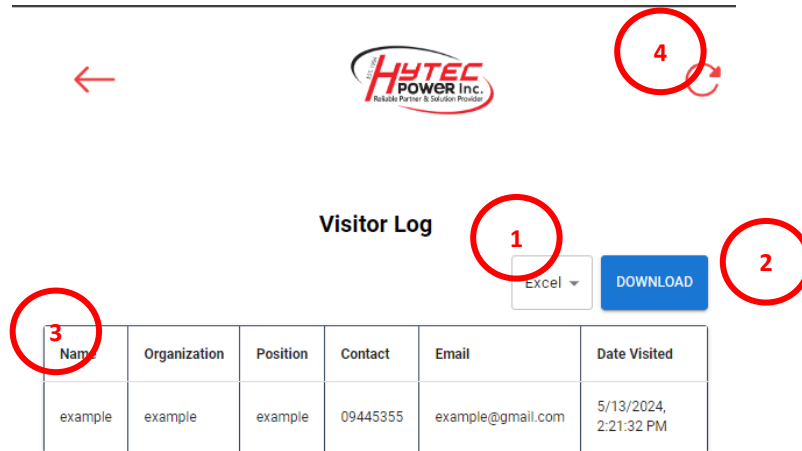


QUICKSTART GUIDELINE FOR ADMIN USER:

6

G. Visitor Logs (Visitor Logs Management)

Visitor Page



Step 1: Tap the dropdown menu and select the file type in which the logs will be exported.

Step 2: Tap the “DOWNLOAD” button. A pop up will appear.

Step 3: Select destination of the logs that will be downloaded.

Step 4: Tap to “Refresh”.

APPENDIX D

DEVELOPERS



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