

# Project Roadmap & System Architecture – NIV Ecosystem

## **1. Authentication & Single Sign-On (SSO) System**

The authentication system will be designed as a centralized login mechanism. When a user signs up and logs in to the NIV BRM project, the same credentials (email/username and password) will allow the user to log in seamlessly across all related platforms, including NIV IT, NIV MASS, and NIV PAP. This ensures a unified user experience with a single account across multiple NIV platforms.

## **2. NIV BRM Website – Backend Modules**

The NIV BRM website will include dedicated backend modules such as BRM Applications, BRM Contacts, BRM Packages, and BRM Payments. All BRM-related data will be managed and stored under the BRM section in the backend, ensuring clear separation and structured data handling.

## **3. NIV IT Website – Backend Modules**

The NIV IT website will have its own backend modules including IT Applications, IT Contacts, IT Packages, and IT Payments. All IT-related information will be stored and managed separately within the IT section of the backend system.

## **4. NIV MASS Website – Backend Modules**

The NIV MASS website will contain backend modules such as MASS Applications, MASS Contacts, MASS Packages, and MASS Payments. All MASS-related data will be processed and securely saved within the MASS section of the backend.

## **5. NIV PAP Website – E-Commerce Platform**

The NIV PAP website will function as a complete e-commerce platform. Key features will include a shopping cart system, add-to-cart functionality, wishlist management, coupon functionality, contact module, checkout and check-in processes, and complete order management. All e-commerce operations will be handled through a structured backend system.

## **6. CustomBox Website – Sub-Admin Based Calculation System**

The CustomBox website will support sub-admin logins. Sub-admin details will be managed and stored by the main admin in the backend. The backend will provide configurable provisions such as paper types and paper prices. These configurations will be visible to sub-admins, allowing them to perform real-time calculations from the frontend and provide accurate pricing information to customers.

## **7. Common Backend Architecture & Data Flow**

All websites under the NIV ecosystem will share a single common backend system. Within this backend, each website will have its own dedicated dropdown/section. Data coming from each website will be stored within its respective section. Invoices will be generated individually for each website, and payments will be displayed only under the dropdown of the website where the transaction occurred. This ensures clear data segregation, accurate reporting, and smooth backend operations.