

BigLedger Handbook

v1.3



This is the BigLedger Handbook that provides all public use cases of the Akaun Platform. To view this in other formats, click on the following:

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Chapter 1. BigLedger Overview

1.1. BigLedger BigPicture

1.1.1. Introduction

This documentation consist of two parts:

- BigLedger [Handbook](#)
For public users wanting to learn about BigLedger Akaun Platform. Click [here](#) to access.
- BigLedger [Blueprint](#)
For BigLedger employees only. Click [here](#) to access.

Getting Started

Before you rush into learning how to use the Akaun Platform, we strongly recommend that you refer to the following chapters to grasp the high level overview of what the Akaun Platform can do for you as follows:

- [Section 3.1.1, “Industry Guide - Introduction”](#)
This guide provide you an in-depth case study of the problems faced by consumer electronics, car repair workshops, logistics, manufacturing, healthcare and retail businesses and how they might be able to solve their problems using the Akaun Platform.
- Modules Guide
- User Guide
- Technical Guide

Speak To Us

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1.1.2. Background

Founded in 2017, the company name "BigLedger" carry the meaning of "**Big Data**" + "**Financial Ledger**", it has grown from an idea of combining structured and unstructured data with the financial data to an operational data lake platform that could be used by big enterprises as well as small and medium businesses.

BigLedger started with the intention to solve one of the biggest problem faced by businesses, which is to integrate various systems, namely:

- Accounting Software
- Customer Relationship Management System
- Point of Sales
- Marketplace Integration
- Human Resource System
- Issue Tracker
- Project Management
- Digital Marketing
- Sales Force Automation
- Procurement System
- E-Commerce Applications
- Mobile Apps
- Membership Program (Customer Loyalty Systems)
- Warehouse Management
- Inventory Management Software
- Logistics and Delivery
- Contact Center System
- Taxation
- Customer Helpdesk
- and many more

We are thankful to our customers that embark the BigLedger journey with us as follows:



Born in the cloud, the BigLedger **operational data lake** connect all parts of a business into an intelligent suite on a fully digital platform and is capable of replacing process-driven, legacy platforms. The "Akaun Platform" is also officially recognized as the winner of APICTA (Asia Pacific ICT Award) in the Business Services Category as follows:



Chapter 2. User Guide

This repository contains all the source code for publishing the Akaun Platform Public Documentation.

2.1. Applet Users

2.1.1. Introduction

The very first thing that every akaun-platform users would need to have, is to sign up for and AkaunID. You can do so by visiting <https://akaun.com/>

Your AkaunID

It is important for you to understand that with a single AkaunID, it is possible for you to have multiple Sign-In methods. You could be using an email with password, a phone number with the same password, you could also be adding access keys to your AkaunID for integration purposes.

The Production, Staging and Development Environment

The very first thing to know is to understand the usage of each of the following environments.

= | Environment | URL | Custom Domain | Description

| Production | <https://akaun.com> | <https://<something>.akaun.net> | This is the live environment, used by real businesses in their day to day operations.

| Staging | <https://akaun.cloud> | <https://<something>.akaun.app> | This environment is usually used for testing by the customers and project managers. New features are tested by the end users here before it gets deployed to the production environment.

| Development | <https://akaun.dev> | <https://<something>.akaun.xyz> | This environment is usually used by the software developers to do their experiments.

=

If you have registered an AkaunID to login to the Production environment, that doesn't mean you have the same AkaunID registered in the Staging Environment and vice versa.

Understanding Root vs Tenant

Within a single environment (Production vs Staging vs Development) there's one and only one root database, and there could be MANY tenant databases. Each user could be joining MULTIPLE tenants and they could have different "RANK" when joining each tenant, for example, OWNER, ADMIN, MEMBER, GUEST, VISTOR.

=

| Rank of a user in a Tenant | Description

| OWNER | The OWNER of a tenant is able to add any applets to an "applet catalog" if the person is also the owner/admin of the "applet catalog". The OWNER is able to add, remove or promote another user in the tenant to be the OWNER of the tenant. This RANK is usually granted to the business owners or MIS Manager of a company.

| ADMIN | The ADMIN of a tenant can do almost everything that the OWNER can do, except adding , removing or promoting another user in the tenant to become the OWNER. This role is usually granted to the MIS Executive or managers in a company.

| MEMBER | The MEMBER Rank does not entitle a user to administer the Tenants , Applet Catalogs, they can however, become the OWNER/ADMIN or MEMBER of an Applet after they installed the specific applet. It is important to understand that the "OWNER/ADMIN of the Tenant" is NOT the same as the "OWNER/ADMIN" of the "Applet"

| =

The Applet Store

By default, a newly signed up user would see the "Applet Store" (applet) upon successful login. From the **Applet Store** , a user would be able to install applets in the public or private applet-catalogs.

It is very important for users to take note that they are able to see "RANK" tag and "TENANT" tag before installing the applet, so that they are installing the right applet for themselves.

If you are NOT the OWNER / ADMIN of a tenant, you can see a list of applet-catalogs and multiple applets in each of the applet-catalog and choose to install any of the applets accordingly.

2.2. Project Implementors

2.2.1. Introduction

Understanding of the Akaun Platform is a prerequisite for successful implementation of any projects using the BigLedger platform.

In this section, we are going to list down what the Platform System Administrators need to do, in order for a company to start using the Akaun-Platform.

Subscription setup in Akaun Platform

The Platform System Administrator should be using the "Platform SysAdmin Applet" to create a subscription, and then add the OWNER / ADMIN of the tenants (usually the MIS Manager or business owners) as a MEMBER of this subscription. By adding a user to this subscription, he/she will be able to create new Applet Catalogs using the "Tenant Admin Applet".

(At the time of writing as per 2022-05-19, the new "Platform SysAdmin Applet" and "Tenant Admin Applet" are being redeveloped, hence, we will use the work around method to achieve this for the time being.)

Tenant setup in Akaun Platform

Only the Akaun Platform system administrators (Wavelet and BigLedger employees) are able power up the tenant for you. The Platform System administrators need to ensure that when creating the Tenant, the correct subscription account is chosen.

Please email jira-mis@wavelet.net to request for the tenant to be created.

We do not plan to allow non-System Administrators to create new tenants at the moment, because our Billing engine and FPX recurring payment authorization is not ready yet. Once these are ready, we may consider allowing businesses that have authorized us to bill and charge be able to create tenants in the "Tenant Admin Applet" _)

Applet-Catalogs

Think of applet-catalog as a collection of applets, tagged with RANK and TENANT. When the OWNER/ADMIN of the applet-catalogs can add applets to it, and they have to specify the "rank" and "tenant". This also mean, within the same applet-catalog, it is possible to include the same applet that links to different tenants.

The ADMIN/OWNER of the applet-catalog also need to add users to the applet-catalogs, and they can add them as OWNER/ADMIN/MEMBER to the applet-catalogs. Only OWNER/ADMIN of the catalogs can manage the applet-catalog (adding / removing applets and users from the applet-catalogs).

All OWNER/ADMIN/MEMBER of an applet-catalog can see the applets in this catalog and install these applets when they use the "Applet Store ⇒ Private"

When the users install applets from the "Applet Store" the RANK/TENANT tags will be applied to grant the users the respective permissions when they open the respective applet. Only the

OWNER/ADMIN of the applets will be able to see and click on the "Settings" on the left handside menu of the applets to perform some further configuration for the applet. (This is not the same as the rank of the users in the applet-catalog).

Configuration of Core Modules

The Core Module consist of the following the main applets that are depended by all other applets. For example, in order to issue a sales invoice, we need to ensure that the Company and Branches are setup and configured, the products and services are added into the Item Maintenance applet, the employees of the company is setup so that the users can select the salesman when issuing the sales invoice.

The applets in [Core Module](#) should be installed, configured in proper sequence, before you proceed to install the other applets.

See [Section 4.1, “Core Module”](#) for more details.

2.3. Tenant Owners

2.3.1. Tenant Owners

What is a Tenant ?

Managing Users

- You can invite / add a user to a tenant or remove their access to a tenant but you cannot reset their password
- Identity management is handled at the root or platform level

Fees and Charges

Access and Permissions

System Performance

API

Subscriptions , Applet-Catalogs , Applets

Audit Trail

2.4. Applet Developers

2.4.1. Introduction

2.5. Resellers

2.5.1. Introduction

Guide for resellers

Section 1

Section 2

2.6. System Integrators

2.6.1. System Integrators

Guide for system integrators.

Section 1

Section 2

2.6.2. Getting Started

Please copy the content from the following URL: <https://wavelet.atlassian.net/wiki/spaces/AKAUN/pages/3271558668/Tenant+-+System+Integrators>

Need to talk about the Virtual ETL Applet * This part should be done by the Platform Sysadmin *
The platform SysAdmin will install the Virtual ETL applet for you, and then grant you the necessary permissions, after this step is done, you may try out the selected endpoints that you have access to.

Chapter 3. Industry Guide

3.1. Overview

3.1.1. Industry Guide - Introduction

For each of the following industry covered in this guide, we provide you with the following:

- Background
- Identify the problems, goals
- Assumptions
- Evaluation of the case (finding the root cause)
- Proposed solution / changes and compare with alternate solutions.
- Recommendations with reasons and justifications
- Appendices (charts , financials , visuals)

3.2. Consumer Electronics Industry

3.2.1. Overview

3.2.2. Solutions

3.2.3. Stories

3.2.4. FAQs

3.3. Pharmacy Industry

3.3.1. Overview

3.3.2. Solutions

3.3.3. Stories

3.3.4. FAQs

3.4. Car Workshops

3.4.1. Overview

3.4.2. Solutions

3.4.3. Stories

3.4.4. FAQs

3.5. Retail Chainstores

3.5.1. Overview

3.5.2. Solutions

3.5.3. Stories

3.5.4. FAQs

3.6. Logistics Industry

3.6.1. Overview

3.6.2. Solutions

3.6.3. Stories

3.6.4. FAQs

3.7. Manufacturing Industry

3.7.1. Overview

3.7.2. Solutions

3.7.3. Stories

3.7.4. FAQs

3.8. Pet Industry

3.8.1. Overview

3.8.2. Solutions

3.8.3. Stories

3.8.4. FAQs

Chapter 4. Guide by Modules

The Akaun platform is like lego blocks, users will be able to mix and match different applets to formulate a new module, even if it is not in the list below.

4.1. Core Module

4.1.1. Introduction

This Section provide you a high level overview of what is in the "Core Module", so that you have a good understanding of how various applets work together. For the detail user guide for each of the applet, you may click on the links below, and drill down for further details.

Overview

"Core Module" is the only module that is depended by all other modules in the system.

Core Module Applets

The core module consiste of the following applets:

- [Section A.18, “Tax Configuration Applet”](#)
- [Section A.14, “Organization Applet”](#)
- [Section A.5, “Chart of Account Applet”](#)
- [Section A.8, “Doc Item Maintenance Applet”](#)
- [Section A.4, “Cashbook Applet”](#)
- [Section A.11, “Inventory Item Maintenance Applet”](#)
- [Section A.10, “Entity Maintenance Applet”](#)
- [Section A.7, “Customer Maintenance Applet”](#)
- [Section A.9, “Employee Maintenance Applet”](#)
- [Section A.17, “Supplier Maintenance Applet”](#)

Core Module Features and Functions

The "Core Module" is the foundation of all other applets.

What's New

Getting Started

Module Dependencies

4.1.2. Module Name - Unique Value Proposition

4.1.3. Core Module - Related Applets

- [Section A.18, “Tax Configuration Applet”](#)
- [Section A.14, “Organization Applet”](#)
- [Section A.5, “Chart of Account Applet”](#)

4.1.4. Module Name - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.2. Accounting Module

4.2.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.2.2. Accounting - Unique Value Proposition

4.2.3. Accounting Module - Related Applets

4.2.4. Module Name - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.

- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
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 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.3. Inventory Module

4.3.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.3.2. Inventory Module - Unique Value Proposition

4.3.3. Inventory Module - Related Applets

4.3.4. Inventory Module - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
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- Schedule

- Identify the activities dependency, and based on resource availability , developing a schedule
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Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.4. Point of Sales Module

4.4.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.4.2. Point of Sales - Unique Value Proposition

4.4.3. Point of Sales Module - Related Applets

4.4.4. Point of Sales Module - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
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 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
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Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.5. Manufacturing Module

4.5.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.5.2. Manufacturing - Unique Value Proposition

4.5.3. Manufacturing - Related Applets

4.5.4. Manufacturing - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.

- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.6. Membership Module

4.6.1. Membership Module Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to other other modules. Explaining that certain detail about

Membership Module Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Membership Module Applets

Membership Module Features and Functions

What's New

Getting Started

Module Dependencies

4.6.2. Membership - Unique Value Proposition

4.6.3. Membership - Related Applets

4.6.4. Membership - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule

- Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.7. Referral Module

4.7.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.7.2. Referral - Unique Value Proposition

4.7.3. Referral Module - Related Applets

4.7.4. Module Name - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.8. Customer Relationship Management

4.8.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

- Sales Funnel ⇒ Search Engine Optimization ⇒ LD-JSON in CP-Commerce / Facebook pixel, Google pixel, LinkedIn pixel, Tiktok Pixel ⇒ Sales Lead Generation through SEO / Adwords etc ⇒ Visitor Tracking URL Shortener

=> Capturing these sales leads inside the CP-Commerce Module
=> Creating Sales Lead automatically in the SFA Applet (and then triggering customer journey), or bringing the customer to UCC

- Customer 360 ⇒ Contact Maintenance Applet ⇒ Segmentation of contacts / members / customers / sales leads ⇒ Full history of all transactional data ⇒ Either using BLG ERP module or Virtual ETL applet to sync transactional data from other systems
- Touch Points ⇒ UCC Applet ⇒ CP-Commerce: Mobile Apps / Web / Mobile Web ⇒ Point of Sales
- Customer Journey ⇒ Digital-Marketing ⇒ CP-Commerce: Topic subscriptions for newsletter ⇒ CP-Commerce: Tracking consumer interest - viewing which products etc
- Customer Service ⇒ Issue Tracker Applet ⇒ RMA ⇒ Statements and Billings
- Analytics ⇒ Segmentations ⇒ ROI on Adwords ⇒ Customer churn
- Robotic Automation ⇒ Custom scripts , reminders

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.8.2. CRM - Unique Value Proposition

4.8.3. CRM - Related Applets

- URL-Shortener Applet (optional)
- SFA Applet (optional)
- CP-Commerce Applet (optional)
- Digital Marketing Applet (optional)
- Contact Maintenance Applet (compulsory)
- Core Module applets
- Issue Tracker Applet
- RMA Applet
- Statement and Billings Applet
- Point of Sales Applet (optional)

4.8.4. CRM - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule

- Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.9. Contact Center Module

4.9.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.9.2. Contact Center - Unique Value Proposition

4.9.3. Contact Center - Related Applets

- [Section A.19, “UCC Applet”](#)

4.9.4. Contact Center - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.10. Digital Marketing Module

4.10.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.10.2. Digital Marketing - Unique Value Proposition

4.10.3. Digital Marketing - Related Applets

4.10.4. Digital Marketing - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.11. Marketplace Connector Module

4.11.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to other other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.11.2. Marketplace Connector - Unique Value Proposition

4.11.3. Marketplace Connector - Related Applets

4.11.4. Marketplace Connector - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule

- Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.12. Delivery Fulfillment Module

4.12.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.12.2. Delivery Fulfillment - Unique Value Proposition

4.12.3. Delivery Fulfillment - Related Applets

4.12.4. Delivery Fulfillment - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
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Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.13. CP Commerce Module

4.13.1. Introduction

This section provides you the guide to implementing the **CP Commerce** module. You will get to know what is included in the CP Commerce module, how to use it, how to get started and what are the features that you can use to launch your next e-commerce project.

CP Commerce Overview

CP Commerce stands for "Cross Platform Commerce". Most of our customers use the CP Commerce module for the following reasons:

- Cross Platform The CP Commerce supports desktop web, mobile web, android and ios platforms. With hybrid technologies,
- Flexible
 - Powerful layout engine to allow for any layouts and any widgets to be configured for different pages in the website.
- Cost Effective
- There's no need to power up another server because the e-commerce website is running on serverless and cloud native technologies
- Integrated
 - Out of the box integration with inventory module, accounting module, market places, point of sales and conversation commerce, no more painful integration and no more duplicated data entry.
- SEO Optimized
 - Support LD-JSON format
- Multi-Lingual and Multi-Country
 - Payment Gateway integration across 33 countries when using it with our PGW Module
 - Different products for different countries is supported, auto switching of payment gateway

- based on country
 - Same products sold in different currencies is also supported
 - Support for multiple timezones
- Scalable
 - Backend is using serverless and cloud native technologies
 - Performing as usual during peak seasons
- Powerful search
- Improved User Experience (PWA)
 - No page reload like those applications built with PHP websites
 - Responsive to screen size, seamless experience on mobile devices
 - Automatic caching of images for faster speed
- Re-targetting
 - Facebook pixel
 - LinkedIn
- Add-ons
- Shipping Fees
- Inventory Stock
 - Able to display stock balance across multiple warehouses and stores
 - Advanced formula to calculate the stock availability by deducting "open sales order" from the "inventory stock balance" to avoid out of stock situation
- Marketplace Integration
 - With the integrated **Marketplace Connector** , users can import images, product name, pricing and other information from Lazada and Shopee, saving valuable time to get started
- Rich API
 - Excellent for integration with other ERP / Accounting systems
- Vouchers
- Membership Program
- Various Product Types
 - Single product
 - Variants (Grouped Product)
 - Bundle
 - Extended Warranty
 - Purchase With Purchase
- RMA (Service Note)
- Pricing Scheme

- Promotions
- Content Management
- Unlimited Categories
- Mailing lists and Topic subscriptions
- Using rebate during checkout
- Branch locators
- Unified Contact Centre
 - WebChat
- Multiple Login Methods
 - Despite multiple login methods, they are all consolidated as a single login-id.
 - Users can login with email/password, phone/sms, Google Login, Facebook Login, Apple Login
- Delivery and Fulfillment
 - Printing , Picking , Packing
 - Trips Planning and Drivers allocation
- Analytics
 - Analysis of abandoned shopping cart
 - Linking to Google Analytics
 - Review and ratings of products
 - Products clicks and page views
 - Abandoned shopping carts
 - Favourites and visitor profiles
- Abandoned shopping cart
 - Automation to create outbound notifications and automatically create sales leads for agents to follow up and assist customer to
 - Customers are able to view their previously abandoned shopping cart
 - Contact center agents are able to assist the customer to complete their shopping cart, and request for payments within messaging applications (conversational commerce)
- Favourite lists
 - Understanding the customer's preferences and subsequently send targeted email / whatsapp messages on promotions
- Product Reviews and Ratings
 - Able to set multiple reviews per product, so that customers are able to feedback on multiple perspectives of the product, not just how many stars. For example: (1) Satisfaction the product (2) Delivery Speed (3) After sales support etc..

The CP Commerce is also being used as B2B Portal for both suppliers and resellers (dealers) for the following reasons.

- Full transaction history and billing statements
- Full receipts
- Restricted access
- Multiple websites with different pricing scheme
- Credit Limit control
 - Checkout now pay later
- Single Login Multiple Accounts (Entities), Each Account supports Multiple Memberships
- Single Account with multiple logins
- Online Forms
- Blocked Users and Spending Limits
- Multi-UOM

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

CP Commerce Applets

- [CP Commerce Admin Applet](#)
- Media Library Applet
- Platform SysAdmin Applet

*

Features and Functions

What's New

Getting Started

- Please ensure that you have setup the pricing scheme in "Doc Item Maintenance applet", you are going to need to use the pricing scheme when configuring the Virtual Branch
- Create a virtual branch for CP Commerce
 - Goto the "Organization Applet" to create a virtual branch
- Create a CP Commerce Website
 - Goto the CP Commerce Admin Applet, and then click "+" to create a website.
 - You may refer to the CP Commerce Admin Applet user guide for more details.
 - When
- Setting up Hostname
 - For configuration of hostname.
 - MIS Department can help you to configure the hostname Currently, Tuan (our programmer) is working on a feature where the platform sysadmin applet, will provide the feature for

users to just click and power up the hostname.

- What is a hostname?? Every website has a hostname... for example: <https://www.wavelet.net> <https://www.wavelet.net/contact-us> (this is a URL, the hostname part is only www.wavelet.net, the https:// is the protocol, and the "contact-us" is the "url path")

Module Dependencies

4.13.2. CP Commerce - Unique Value Proposition

4.13.3. CP Commerce - Related Applets

4.13.4. CP Commerce - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

Although there are many project Gantt Chart software out there, in the past, we have used Smartsheet.com, Google spreadsheet and others. We found that the issue due dates and the actual progress of the issue status became outdated within days because everyone else in the team are NOT updating the issues in these Gantt Chart, they are using Jira issue tracker at <https://wavelet.atlassian.net>. As a results, we have decided to make use of the following <https://www.atlassian.com/software/jira/features/roadmaps>

- Defining Activities
 - List down all the activities involved for each [Work Breakdown](#)
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path
 - As many activities can happen in parallel , we need to identify the critical path to ensure the activities that are in critical path are given the highest urgency, to ensure the project is not delayed.

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.13.5. Work Breakdown

URL and Domain Name

- Domain Name This can be top level domain name, or sub-domain name.
- BigLedger hostname

UI Design

- Both mobile and desktop

Applet Installations

- Applet Catalogs
- Applet installations via Applet Store

Please install the applet in the following modules:

- [Core Module Applets](#)
- [Membership Module Applets](#)

- [CP Commerce Applets](#)

Products and Pricing

Define a pricing scheme in the Doc Item Maintenance applet, and ensure all the product pricing is accurate.

Attach the categories and set of attributes to each of the product.

Upload the product images to cp-commerce

CP Commerce Virtual Branch

We need to create a virtual branch for every CP-Commerce website, refer to the Virtual Branch feature in Organization Applet accordingly.

PGW Configurations

Please visit [PGW Module](#) for more information about the configuration of PGW Module.

Digital Signature

Post Registration Configuration

Third Party Authentication and Authorization

Google reCaptcha

Google Analytics

Review Settings

Menu List

Label List

Content Category

Static Posts

- About us
- Privacy Policy
- Terms and conditions
- other content in a typical website

Restricted Access By Entity Accounts

Layout Instance

Configuring Language, Region and Country

Voucher Management

Quality Control Checklist

4.13.6. Product Maintenance

- Basic Product
- Group Product (variants)
- Bundle Product
- Product Categories
- Product Dimensions / Volumetric
- Product Description Pages
- Product Images
- Product Reviews / Ratings *

4.13.7. Shipping Fees

- Shipping Fee Applets

4.13.8. Settlement Methods

4.13.9. Order Fulfillment

- We will talk about Sales Order Applet
- Delivery & Installation Applet
- Syncing to the EMP
- Choosing the serial numbers, printing of the Consignment Notes / stickers etc.

*

4.13.10. Search Engine Optimization

4.13.11. QC Checklist

4.14. Procure to Pay Module

4.14.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.14.2. Procure To Pay - Unique Value Proposition

4.14.3. Procure To Pay - Related Applets

4.14.4. Procure To Pay - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.15. HR Module

4.15.1. Introduction

4.16. Order To Cash Module

4.16.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.16.2. Order To Cash - Unique Value Proposition

4.16.3. Order To Cash - Related Applets

4.16.4. Order To Cash - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
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 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency

- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.17. Warehouse Management Module

4.17.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.17.2. Warehouse Management - Unique Value Proposition

4.17.3. Warehouse Management - Related Applets

4.17.4. Warehouse Management - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.18. Customer Data Platform

4.18.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.18.2. Customer Data Platform - Unique Value Proposition

4.18.3. Customer Data Platform - Related Applets

4.18.4. Customer Data Platform - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule

- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.19. PGW Module

4.19.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

PGW Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

PGW Applets

The pgw module consiste of the following applets:

- [Section A.13, “Merchant Admin Maintenance Applet”](#)

Features and Functions

What's New

Getting Started

Module Dependencies

4.19.2. Payment Gateway Module - Unique Value Proposition

4.19.3. Module Name - Related Applets

4.19.4. Module Name - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.20. Chatbot Module

4.20.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.20.2. Chatbot - Unique Value Proposition

4.20.3. Chatbot - Related Applets

4.20.4. Module Name - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.

- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown
- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

4.21. Process Automation Module

4.21.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

4.22. Datalake Module

4.22.1. Introduction

The intention of this section in the documentation. What this section cover, and not covering... and how it will link to othe other modules. Explaining that certain detail about

Overview

Some background of why this module was developed Provide a summary of what this module does and doesn't do.

Applets

Features and Functions

What's New

Getting Started

Module Dependencies

4.22.2. Datalake - Unique Value Proposition

4.22.3. Datalake - Related Applets

4.22.4. Datalake - Project Implementation Steps

Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
- We decide what to do in phase 1, phase 2, phase 3 etc.
- This is where we create the WBS (Work Break Down) as well.

Project Gantt Chart

- Defining Activities
 - List down all the activities involved for each work breakdown

- Sequence Activities
 - Which one first, which one next
- Estimated Resource Requirements for each activity
 - Estimate how long it will take, what skills may be required to do this
- Schedule
 - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

Project Kickstart Meeting

Weekly Meeting

Agile Method

Cashflow Projection

Human Resource Management

- Milestones and Rewards

Communication Management

Risk Management

- Identify third party dependency
- Identify backup plans
- Identify contingency plans

UAT (User Acceptance Test)

Requirement Analysis

Project Goes Live

Post Mortem

Chapter 5. Technical Guide

This technical guide is used by both internal and external employees of

5.1. Applet Development Guide

5.1.1. Introduction

5.1.2. Creating a new Applet

There are many steps involved when you want to create a new applet, a well designed applet would have to follow our applet design guidelines.

Preparation Before Developing A New Applet

Business Requirements

Database Design

Mock Up and Design

API Design

5.1.3. Deploying applet to s3

- Making pull request the github vendor repository
- Platform SysAdmin to merge the changes from vendor repository to the global applet repository, and then syncing it to various branches : production, staging , development. Subsequently, these changes to be sync to the s3 bucket in AWS
- Submission for testing

5.1.4. Developer SysAdmin Applet

This applet is used by the Platform System Administrator to configure various applets

5.1.5. Example Applet Template

This guide provide a walk thru of the example applet so that the applet developers can cut short the learning time required to produce an applet from scratch.

5.1.6. Inactive Applet

An inactive applet is taken out from the applet store, but they are NOT deleted from the system yet.

The developer can still see this applet in their applet listing.

5.1.7. Publishing an Applet

- Logo design
- Applet Description
- Applet images (for Applet Store)
- Pricing Country
- Applet Type
- Quality Checking
- Security Checking *

5.1.8. Releasing new version of the applets

Handling changes in permission templates

Getting approval

5.1.9. Full Deletion of Applet

Removal of applet from Applet-Catalogs

Removal of applet from users who have installed the applet

Removal of the Javascript Bundle from s3

Delete all applet settings / configurations in bl_applet_* tables in both Tenant and Root

- This would include Permission Templates / Permission Sets etc.

Removal of all schedulers related to this applet

Removal of Audit Trails and other applet related tables

Removal of applet from the Applet Master List - Google Spreadsheet

Removal of other links related to applets

5.1.10. Quality Control Checklist

In order to ensure the best user experience on the Akaun Platform, we need to ensure this checklist is executed on a periodic basis.

UI Design QC

Documentation QC

Permissions QC

Features QC

Development / Staging Environment QC

Commercials QC

Source Code QC

5.1.11. Support and Maintenance of Applet

5.1.12. Suspension of Applet

- Usually this happens when the developer / applet violates the policy of applet store etc.

5.1.13. Types of Applet

5.1.14. UI Design Guidelines

- Must have Applet settings at the bottom left
- Having Personal Settings at the bottom left
- Showing the Tenant-code at the top left
- Showing the applet logo at the top left
- Having left menu
- Responsive to both desktop and mobile

5.1.15. Vendor Account

Vendor Registration

Developer Registration

Linking to the AkaunHQ Entity Account

5.1.16. Applet Permission Template

understanding of permission / assignee / target type table.

understanding of difference between permission set and permission template

requesting for the permission template to be created for third party developer..

5.1.17. Pricing for applets

For now, we go with simplified pricing strategy by just charging per user per applet per month manually before the Billing Engine is ready.

5.1.18. Scheduler for applet

The scheduler of an applet allow recurring task to be executed on a periodic basis.

5.1.19. Webhooks for Applets

The webhook for an applet is different from the webhook for Sales Order etc...

This webhook is specific to an applet, to cater for the following scenario... For example, when the users first installed an applet, or when they first start clicking on the applet... etc..

5.1.20. Archiving an Applet

Archiving an applet would be permanently in-activating an applet.

5.1.21. Client Side Settings

- This is used for certain client side permissions to hide certain fields in the UI
- Allowing users to configure customize the behavior of the client-side

5.2. ETL Guide

5.2.1. Introduction

5.3. Cloud Native Architecture

5.3.1. Introduction

Common misunderstanding * thinking web based == cloud based. * everything has A.I. * online / networked == cloud based

Our aspirations * To be the business operating systems

Background

- Outdated JBoss application server, EJB 1.0 / 2.0
- Servers idling
- Hackers attack
- Certain minimum costs to power up a tenant
- Self service
- Internal employee users vs customers + suppliers
- Integration pains

Motivation

Platform Business Model

Multiple offerings → as middleware - backend as a service → as applets → as SaaS → as communication hub

Cross Platform development

Scalability

Flexibility

Growth

Composable Enterprise

Utility based billing

Integrations

spikes in loads

Infrastructure and Toolchain

Various tools ready to be used out of the box... example : OCR, Lambda, RDS, NoSQL, API Gateway

Network Effect

Cloud Cost Savings

Artificial Intelligence

Human Resource

Journey

Challenges and Lessons

Technical Considerations

- managing complexities
- Sharing about our journey to transform from monolith architecture to cloud native architecture
- Sharing about the problems and challenges implementing stateless applications
- Sharing about the implementation of Micro-Frontend Architecture
- Sharing about the implementation of Web Socket using API Gateway and DynamoDB
- Sharing about challenges of securing the API, permissions / configurations etc
- Sharing about the challenges of multi-tenant environments
- Sharing about the design of composable enterprise architecture

- Sharing about the tricky part of networked tenants

Glossary

Akaun Shell

The user interface that loads into a web browser, and showing users a list of applets.

Applet

An application that runs on the Akaun Shell.

Applet Store

The applet where users can discover other applets and install these other applets.

Environment

There are 3 environments, namely production, staging and development. Each of these environments lives in a different AWS account.

Platform Administrators

This refers to the BigLedger MIS Department.

System Administrator

This refers to the BigLedger MIS Department.

Root Database

This refers to the Platform main and global database.

Tenant

Every tenant is isolated from each other , it has its own independent database and other resources like files storage. Within a tenant, it is possible to create multiple companies, and they share the same database.

Tenant Admin

This refers to the OWNER or ADMIN of the Tenant.

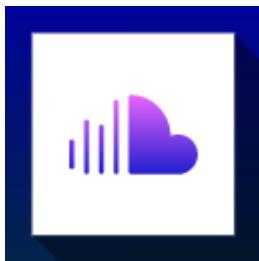
Appendix A: Applet Directory

A.1. Applet Listing

A.1.1. Introduction

A.2. Applet Store

A.2.1. Introduction



This is the default applet that every user will get when they sign up to the Akaun Platform. Users can open this applet to install all other applets.

A.2.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)

- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.2.3. Menu 01 - e.g. Sales Orders Listing

A.2.4. Menu 02 - e.g. Line Items

A.2.5. Permission Settings

A.2.6. Personalization

A.2.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.2.8. Pricing

A.2.9. Release Note

A.2.10. Roadmap

A.3. Bank Reconciliation Applet

A.3.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.3.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)

- [Section 4.22, “Datalake Module”](#)

A.3.3. Menu 01 - e.g. Sales Orders Listing

A.3.4. Menu 02 - e.g. Line Items

A.3.5. Permission Settings

A.3.6. Personalization

A.3.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.3.8. Pricing

A.3.9. Release Note

A.3.10. Roadmap

A.4. Cashbook Applet

A.4.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.4.2. Modules

This applet is used in the following modules:

- Section 4.1, “Core Module”
- Section 4.2, “Accounting Module”
- Section 4.3, “Inventory Module”
- Section 4.4, “Point of Sales Module”
- Section 4.5, “Manufacturing Module”
- Section 4.6, “Membership Module”
- Section 4.7, “Referral Module”
- Section 4.8, “Customer Relationship Management”
- Section 4.9, “Contact Center Module”
- Section 4.10, “Digital Marketing Module”
- Section 4.11, “Marketplace Connector Module”
- Section 4.12, “Delivery Fulfillment Module”
- Section 4.13, “CP Commerce Module”
- Section 4.14, “Procure to Pay Module”
- Section 4.15, “HR Module”
- Section 4.16, “Order To Cash Module”
- Section 4.17, “Warehouse Management Module”
- Section 4.18, “Customer Data Platform”
- Section 4.19, “PGW Module”
- Section 4.20, “Chatbot Module”
- Section 4.21, “Process Automation Module”
- Section 4.22, “Datalake Module”

A.4.3. Menu 01 - e.g. Sales Orders Listing

A.4.4. Menu 02 - e.g. Line Items

A.4.5. Permission Settings

A.4.6. Personalization

A.4.7. Related Applets

This applet also depends on the following applets:

- Applet 1

- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.4.8. Pricing

A.4.9. Release Note

A.4.10. Roadmap

A.5. Chart of Account Applet

A.5.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.5.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)

- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.5.3. Menu 01 - e.g. Sales Orders Listing

A.5.4. Menu 02 - e.g. Line Items

A.5.5. Permission Settings

A.5.6. Personalization

A.5.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.5.8. Pricing

A.5.9. Release Note

A.5.10. Roadmap

A.6. CP Commerce Admin Applet

A.6.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.6.2. Modules

This applet is used in the following modules:

- Section 4.1, “Core Module”
- Section 4.2, “Accounting Module”
- Section 4.3, “Inventory Module”
- Section 4.4, “Point of Sales Module”
- Section 4.5, “Manufacturing Module”
- Section 4.6, “Membership Module”
- Section 4.7, “Referral Module”
- Section 4.8, “Customer Relationship Management”
- Section 4.9, “Contact Center Module”
- Section 4.10, “Digital Marketing Module”
- Section 4.11, “Marketplace Connector Module”
- Section 4.12, “Delivery Fulfillment Module”
- Section 4.13, “CP Commerce Module”
- Section 4.14, “Procure to Pay Module”
- Section 4.15, “HR Module”
- Section 4.16, “Order To Cash Module”
- Section 4.17, “Warehouse Management Module”
- Section 4.18, “Customer Data Platform”
- Section 4.19, “PGW Module”

- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.6.3. Websites

A.6.4. Forms

A.6.5. Topics

A.6.6. Rating Configuration

A.6.7. Template Forms

A.6.8. Submitted Forms

A.6.9. Spending Limit

A.6.10. Blocked Customers

A.6.11. Activities

A.6.12. Permission Settings

A.6.13. Personalization

A.6.14. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.6.15. Pricing

A.6.16. Release Note

A.6.17. Roadmap

A.7. Customer Maintenance Applet

A.7.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.7.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)

- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.7.3. Menu 01 - e.g. Sales Orders Listing

A.7.4. Menu 02 - e.g. Line Items

A.7.5. Permission Settings

A.7.6. Personalization

A.7.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.7.8. Pricing

A.7.9. Release Note

A.7.10. Roadmap

A.8. Doc Item Maintenance Applet

A.8.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.8.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.8.3. Menu 01 - e.g. Sales Orders Listing

A.8.4. Menu 02 - e.g. Line Items

A.8.5. Permission Settings

A.8.6. Personalization

A.8.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.8.8. Pricing

A.8.9. Release Note

A.8.10. Roadmap

A.9. Employee Maintenance Applet

A.9.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.9.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.9.3. Menu 01 - e.g. Sales Orders Listing

A.9.4. Menu 02 - e.g. Line Items

A.9.5. Permission Settings

A.9.6. Personalization

A.9.7. Related Applets

This applet also depends on the following applets:

- Applet 1

- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.9.8. Pricing

A.9.9. Release Note

A.9.10. Roadmap

A.10. Entity Maintenance Applet

A.10.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.10.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)

- Section 4.9, “Contact Center Module”
- Section 4.10, “Digital Marketing Module”
- Section 4.11, “Marketplace Connector Module”
- Section 4.12, “Delivery Fulfillment Module”
- Section 4.13, “CP Commerce Module”
- Section 4.14, “Procure to Pay Module”
- Section 4.15, “HR Module”
- Section 4.16, “Order To Cash Module”
- Section 4.17, “Warehouse Management Module”
- Section 4.18, “Customer Data Platform”
- Section 4.19, “PGW Module”
- Section 4.20, “Chatbot Module”
- Section 4.21, “Process Automation Module”
- Section 4.22, “Datalake Module”

A.10.3. Menu 01 - e.g. Sales Orders Listing

A.10.4. Menu 02 - e.g. Line Items

A.10.5. Permission Settings

A.10.6. Personalization

A.10.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.10.8. Pricing

A.10.9. Release Note

A.10.10. Roadmap

A.11. Inventory Item Maintenance Applet

A.11.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.11.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)

- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.11.3. Menu 01 - e.g. Sales Orders Listing

A.11.4. Menu 02 - e.g. Line Items

A.11.5. Permission Settings

A.11.6. Personalization

A.11.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.11.8. Pricing

A.11.9. Release Note

A.11.10. Roadmap

A.12. Media Library Applet

A.12.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.12.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.12.3. Menu 01 - e.g. Sales Orders Listing

A.12.4. Menu 02 - e.g. Line Items

A.12.5. Permission Settings

A.12.6. Personalization

A.12.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.12.8. Pricing

A.12.9. Release Note

A.12.10. Roadmap

A.13. Merchant Admin Maintenance Applet

A.13.1. Introduction



Designed by [pngtree](#)

This is a simple description of the applet, no more than 100 words.

A.13.2. Modules

This applet is used in the following modules:

- Section 4.1, “Core Module”
- Section 4.2, “Accounting Module”
- Section 4.3, “Inventory Module”
- Section 4.4, “Point of Sales Module”
- Section 4.5, “Manufacturing Module”
- Section 4.6, “Membership Module”
- Section 4.7, “Referral Module”

- Section 4.8, “Customer Relationship Management”
- Section 4.9, “Contact Center Module”
- Section 4.10, “Digital Marketing Module”
- Section 4.11, “Marketplace Connector Module”
- Section 4.12, “Delivery Fulfillment Module”
- Section 4.13, “CP Commerce Module”
- Section 4.14, “Procure to Pay Module”
- Section 4.15, “HR Module”
- Section 4.16, “Order To Cash Module”
- Section 4.17, “Warehouse Management Module”
- Section 4.18, “Customer Data Platform”
- Section 4.19, “PGW Module”
- Section 4.20, “Chatbot Module”
- Section 4.21, “Process Automation Module”
- Section 4.22, “Datalake Module”

A.13.3. Menu 01 - e.g. Sales Orders Listing

A.13.4. Menu 02 - e.g. Line Items

A.13.5. Permission Settings

A.13.6. Personalization

A.13.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.13.8. Pricing

A.13.9. Release Note

A.13.10. Roadmap

A.14. Organization Applet

A.14.1. Introduction



You can use this applet to create / update / delete companies, branches and locations.

A.14.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)

- [Section 4.22, “Datalake Module”](#)

A.14.3. Menu 01 - e.g. Sales Orders Listing

A.14.4. Menu 02 - e.g. Line Items

A.14.5. Permission Settings

A.14.6. Personalization

A.14.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.14.8. Pricing

A.14.9. Release Note

A.14.10. Roadmap

A.15. Payment Channel Applet

A.15.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.15.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.15.3. Menu 01 - e.g. Sales Orders Listing

A.15.4. Menu 02 - e.g. Line Items

A.15.5. Permission Settings

A.15.6. Personalization

A.15.7. Related Applets

This applet also depends on the following applets:

- Applet 1

- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.15.8. Pricing

A.15.9. Release Note

A.15.10. Roadmap

A.16. Stock Take V2 Applet

A.16.1. Introduction



Stock Take Applet is an applet that designed to keep track of your items based on their locations, reference number or any other reference related to the Stock take count in hand. Stock Take Applet can compare your physical stock in hand with EMP system which identify variance of each stock. Stock Take Applet also allows you to track stock count records by user and specially assigned each item to each user. Therefore, it will reduce human error and streamline business operations efficiently.

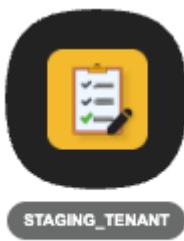
A.16.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.16.3. Menu 01 - Stock Take Session

1.1 Please go to Akaun.com - Stock Take Applet V2



Stock Take V2

1.2 Go to the Stock Take Session

Session Listing

No.	Session Name	Session Code	Location	Company	Status	Start Date	Modified Date
1	testShaikot	testShaikot	AGROMART-PAKSO...	AGROTECH PRO LA...	OPEN	2022-05-13 16:07:41	2022-05-23
2	TestRawan	TestRawan	DAYANGTEST-1	DRAFTCTEST	OPEN	2022-04-28 11:52:27	2022-05-13
3	TTDI Store - 7/4/2022	TTDI STore	ADDRESSLOCATION	Azri Company Test	OPEN	2022-04-07 11:23:04	2022-04-14
4	rawantest11	rawantest11	ADDRESSLOCATION	Azri Company Test	CLOSED	2022-02-17 21:39:54	2022-02-18
5	rawantest2	rawantest2	ADDRESSLOCATION	Azri Company Test	OPEN	2022-02-17 19:16:31	2022-04-07
6	FEB 2022	FEB 2022	AGROMART-PAKSO...	AGROTECH PRO LA...	CLOSED	2022-02-04 12:13:49	2022-02-17
7	TEST1111	TEST1111	DAYANGTEST-1	DRAFTCTEST	OPEN	2022-01-14 10:46:26	2022-01-14
8	ida test	ida test	stock branch	IDA COMPANY 8888888	OPEN	2021-12-14 14:50:02	2022-05-11
9	Stock Session August	Stock Session August	DAYANGTEST-1	DRAFTCTEST	CLOSED	2021-08-27 12:27:21	2022-02-14
10	Sunway-Aug 2021	Sunway-Aug 2021	TEST	CELEB BEAUTY & S...	OPEN	2021-08-19 15:45:02	2022-02-14

1.3 Create a Stock Take Session Ex: STOCK - JUNE 2022

Create Session

Session Name *	Session Code *
STOCK - JUNE 2022	JUNE -2022
Location	Company
L-SETAPAK L-SETAPAK	Celmonze Sdn Bhd
Description	Status
STOCK SESSION	Open

1.4 After creating the Stock Session, go to devices tab to add PIC for handling the Stock Take

The screenshot shows the Stock Take Applet interface. On the left, there is a vertical toolbar with icons for search, refresh, and other functions. The main area has two tabs: "Session Listing" and "Edit Session". The "Session Listing" tab is active, displaying a table of sessions with columns: No., Session Name, Session Code, Location, and Date. One row is selected, highlighted in blue. The "Edit Session" tab shows a table with columns: No., Device Name, Device Code, Brand, and Model. A red box highlights the "Add" button (+) in the top right corner of the "Edit Session" table.

1.5 Find a PIC name to add under the created stock take Session

The screenshot shows the Stock Take Applet interface. The "Edit Session" tab is active. A red box highlights the "Create Device Session" dialog box, which is overlaid on the main screen. The dialog box has fields for "Device Code & Name" (with a dropdown arrow), "Find device...", "Brand" (set to "Pocophone"), and "Status" (set to "Active"). The list of devices includes: RF95 Razer Fizi, Bukit Setongkol Nik, TestI23 TestI23, and XH95 Xiomi Hafizhi Falah.

1.6 After selecting the PIC, go to the PIC name to start performing your Stock Take

The screenshot shows the Stock Take Applet interface. On the left, there is a vertical toolbar with icons for settings, refresh, and other functions. The main area has two tabs: "Session Listing" and "Edit Session".

Session Listing:

- Search bar: "Search name and code"
- Table columns: No., Session Name, Session Code, Location, C...
- Data rows (partial list):
 - No. 11: Bangsar - Aug 2021, Session Name: Bangsar - Aug 2021, Session Code: L-123, Location: ADDRESSLOCATION
 - No. 12: Aug 2021, Session Name: Aug 2021, Session Code: WAREHOUSE 001 - PJ, Location: LOOB HOLDING
 - No. 13: Adri, Session Name: Adri, Session Code: 7888, Location: CREATELOCATION
 - No. 14: Stock Take July, Session Name: Stock Take July, Session Code: stock branch, Location: ID
 - No. 15: Stock Take March, Session Name: March21, Session Code: ADDRESSLOCATION
 - No. 16: LH-HQ, Session Name: LH-HQ - Apr 2021, Session Code: LOOB HOLDING
 - No. 17: L-TONN CABLE - Ma..., Session Name: L-TONN CABLE, Session Code: TC
 - No. 18: CTS_PUC_WRH - M..., Session Name: Puchong Warehouse, Session Code: C
 - No. 19: LH-HQ - Mar 2021, Session Name: LH-HQ - Mar 2021, Session Code: LOOB HOLDING
 - No. 20: STOCK - JUNE 2022, Session Name: JUNE -2022, Session Code: L-SETAPAK

Edit Session:

- Search bar: "Search name and code"
- Table columns: No., Device Name, Device Code, Brand
- Data rows (partial list):
 - No. 1: Pocophone Piji, Device Name: Pocophone Piji, Device Code: PP95, Brand: Pocophone
 - No. 2: Priya, Device Name: Priya, Device Code: Priya, Brand: Priya

1.7 Once click into devices, please go to Records Tab image::records_tab.png[]

1.8 You can directly scan your serial number scan button

The screenshot shows the Stock Take Applet interface. On the left, there is a vertical toolbar with icons for settings, refresh, and other functions. The main area has two tabs: "Edit Session" and "Edit Device Session".

Edit Session:

- Search bar: "Search name and code"
- Table columns: No., Device Name, Device Code, Brand
- Data rows (partial list):
 - No. 1: Pocophone Piji, Device Name: Pocophone Piji, Device Code: PP95, Brand: Pocophone
 - No. 2: Priya, Device Name: Priya, Device Code: Priya, Brand: Priya

Edit Device Session:

- Serial Number Type: "Code 128"
- Scan button: "SCAN"
- Text input field: "Scan code.."

1.9 Auto-save feature is available

The screenshot shows the Stock Take Applet interface. On the left, there is a vertical toolbar with icons for search, refresh, and other functions. The main area has two tabs: "Session Listing" and "Edit Session".

Session Listing Tab:

- Search bar: "Search name and code"
- Row limit: "Rows 10" with a dropdown arrow.
- Pagination: "page 2 of 4" with arrows.
- Table headers: No., Session Name, Session Code, Location, Col.
- Data rows (11 to 20):
 - No. 11: Bangsar - Aug 2021, Bangsar - Aug 2021, L-123
 - No. 12: Aug 2021, Aug 2021, WAREHOUSE 001 - PJ
 - No. 13: Adri, 7888, CREATELOCATION
 - No. 14: Stock Take July, Stock Take July, stock branch
 - No. 15: Stock Take March, March21, ADDRESSLOCATION
 - No. 16: LH-HQ, LH-HQ - Apr 2021, LOOB HOLDING
 - No. 17: L-TONN CABLE - Ma..., L-TONN CABLE
 - No. 18: CTS_PUC_WRH - M..., Puchong Warehouse
 - No. 19: LH-HQ - Mar 2021, LOOB HOLDING
 - No. 20: STOCK - JUNE 2022, JUNE -2022, L-SETAPAK

Edit Session Tab:

- Back arrow: "Edit Session"
- Tab navigation: Details, Devices, Records (selected), Report.
- Search bar: "Search name and code"
- Table headers: No., Item Name, Item Code, Device Name, Col.
- Buttons: "SAVE" (highlighted with a red box), "GENERATE", "RESET", "SEARCH".

1.10 Once complete performing stock take, please go to the report tab. Filter by Report Type and click Search

The screenshot shows the Stock Take Applet interface with the "Report" tab selected. A red box highlights the search filters section.

Report Tab:

- Back arrow: "Edit Session"
- Tab navigation: Details, Devices, Records, Report (selected).
- Search bar: "Search name and code"
- Report Type dropdown: "Active Items" (highlighted with a red box).
- Input fields: "Item Code" and "Item Name".
- Buttons: "GENERATE", "RESET", "SEARCH" (highlighted with a red box).

A.16.4. Menu 02 - Devices

2.1 Go to the device menu to create Device. The Device will be used to assign to the stock take session

The screenshot shows a web-based application interface for managing devices. At the top, there's a header with the 'akaun' logo and a user profile icon. Below the header is a purple navigation bar with icons for a clipboard, a search function, and the title 'Stock Take Applet'. On the left side, there's a vertical sidebar with several icons: a magnifying glass, a clock, a square, a grid, a gear, and a headphones icon. The main content area is titled 'Device Listing' and contains a table with the following columns: No., Device Name, Device Code, Brand, Model, Status, and Modified Date. The table has 10 rows of data. A search bar labeled 'Search name and code' is located at the top of the table. To the right of the table are buttons for 'Rows' (set to 10), navigation arrows, and page numbers (page 1 of 2). There are also 'Columns' and 'Filters' buttons on the far right.

No.	Device Name	Device Code	Brand	Model	Status	Modified Date
1	Samsung B	AAA	XIAMO	F14	INACTIVE	2022-05-23 17:46:43
2	efghjkl	fdvbnm			INACTIVE	2022-05-23 16:34:45
3	Staff1	Staff1			INACTIVE	2022-05-23 16:32:33
4	Priya	Priya	Priya	Priya	ACTIVE	2021-08-19 15:42:55
5	Siti	Scanner	Warehouse	Warehouse	ACTIVE	2021-08-06 11:17:04
6	Xiomi Hafizhi Falah	XH95	Xiomi	Mi 9t Pro	ACTIVE	2021-08-06 11:16:10
7	Test123	Test123	Test123	Test123	ACTIVE	2021-08-03 12:20:00
8	Nik	Bukit Setengkol	Bukit Setengkol	Bukit Setengkol	ACTIVE	2021-07-08 15:59:25
9	Razer Fizi	RF95	Razer	Black Shark	ACTIVE	2021-06-16 17:16:08
10	Iphone	Iphone5	Epal	Epal	ACTIVE	2021-06-16 17:15:33

2.2 Search box is for search for Device Code and Device Name

This screenshot is identical to the one above, but the search bar 'Search name and code' is highlighted with a red rectangle. The rest of the interface, including the table data and sidebar, remains the same.

No.	Device Name	Device Code	Brand	Model	Status	Modified Date
1	Samsung B	AAA	XIAMO	F14	INACTIVE	2022-05-23 17:46:43
2	efghjkl	fdvbnm			INACTIVE	2022-05-23 16:34:45
3	Staff1	Staff1			INACTIVE	2022-05-23 16:32:33
4	Priya	Priya	Priya	Priya	ACTIVE	2021-08-19 15:42:55
5	Siti	Scanner	Warehouse	Warehouse	ACTIVE	2021-08-06 11:17:04
6	Xiomi Hafizhi Falah	XH95	Xiomi	Mi 9t Pro	ACTIVE	2021-08-06 11:16:10
7	Test123	Test123	Test123	Test123	ACTIVE	2021-08-03 12:20:00
8	Nik	Bukit Setengkol	Bukit Setengkol	Bukit Setengkol	ACTIVE	2021-07-08 15:59:25
9	Razer Fizi	RF95	Razer	Black Shark	ACTIVE	2021-06-16 17:16:08
10	Iphone	Iphone5	Epal	Epal	ACTIVE	2021-06-16 17:15:33

2.3 Advanced Filter search is to search based on brand, model, status and date.

Device Listing

Search name and code

Brand

Model

Status

Modified Date From... Modified Date To...

RESET SEARCH

Model Status Modified Date

	Model	Status	Modified Date
1	F14	INACTIVE	2022-05-23 17:46:43
2		INACTIVE	2022-05-23 16:34:45
3		INACTIVE	2022-05-23 16:32:33
4	Priya	ACTIVE	2021-08-19 15:42:55
5	Warehouse	ACTIVE	2021-08-06 11:17:04
6	Mi 9t Pro	ACTIVE	2021-08-06 11:16:10
7	Test123	ACTIVE	2021-08-03 12:20:00
8	Bukit Setengkol	ACTIVE	2021-07-08 15:59:25
9	Black Shark	ACTIVE	2021-06-16 17:16:08
10	Epal	ACTIVE	2021-06-16 17:15:33

2.4 Click "+" button to create new Device and fill in the required fields

Device Listing

No. Device... Device... Brand Model Status M...

No.	Device...	Device...	Brand	Model	Status	M...
1	samsungs3	samsung...	samsung	g32	ACTIVE	2022-06...
2	Samsung B	AAA	XIAMO	F14	INACTIVE	2022-05...
3	efghijkl	fdvbnm			INACTIVE	2022-05...
4	Staff1	Staff1			INACTIVE	2022-05...
5	Priya	Priya	Priya	Priya	ACTIVE	2021-08...
6	Siti	Scanner	Warehouse	Warehouse	ACTIVE	2021-08...
7	Xiomi Haf...	XH95	Xiomi	Mi 9t Pro	ACTIVE	2021-08...
8	Test123	Test123	Test123	Test123	ACTIVE	2021-08...
9	Nik	Bukit Set...	Bukit Set...	Bukit Set...	ACTIVE	2021-07...
10	Razer Fizi	RF95	Razer	Black Sh...	ACTIVE	2021-06...

Create Device

Device Name * xiomi123

Device Code * xiomi123

Brand xiomi

Model ss34

Status Active

2.5 Click Create button and Device Listing will show the recent device created top of the listing

Device Listing

No.	Device Name	Device Code	Brand	Model	Status	Modified Date
1	xomi123	xomi123	xiomi	ss34	ACTIVE	2022-06-07 18:04:00
2	samsungs3	samsung123	samsung	g32	ACTIVE	2022-06-07 17:50:54
3	Samsung B	AAA	XIAMO	F14	INACTIVE	2022-05-23 17:46:43
4	efghijkl	fdvbnm			INACTIVE	2022-05-23 16:34:45
5	Staff1	Staff1			INACTIVE	2022-05-23 16:32:33
6	Priya	Priya	Priya	Priya	ACTIVE	2021-08-19 15:42:55
7	Siti	Scanner	Warehouse	Warehouse	ACTIVE	2021-08-06 11:17:04
8	Xiomi Hafizhi Falah	XH95	Xiomi	Mi 9t Pro	ACTIVE	2021-08-06 11:16:10
9	Test123	Test123	Test123	Test123	ACTIVE	2021-08-03 12:20:00
10	Nik	Bukit Setongkol	Bukit Setongkol	Bukit Setongkol	ACTIVE	2021-07-08 15:59:25

2.6 Once click at the specific device, edit the highlighted fields and click button to save changes

Device Listing

No.	Device Name	Device Code	Brand	Model	Status	Modified Date
1	xomi123	xomi123	xiomi	ss34	ACTIVE	2022-06-07 18:04:00
2	samsungs3	samsung123	samsung	g32	ACTIVE	2022-06-07 17:50:54
3	Samsung B	AAA	XIAMO	F14	INACTIVE	2022-05-23 17:46:43
4	efghijkl	fdvbnm			INACTIVE	2022-05-23 16:34:45
5	Staff1	Staff1			INACTIVE	2022-05-23 16:32:33
6	Priya	Priya	Priya	Priya	ACTIVE	2021-08-19 15:42:55
7	Siti	Scanner	Warehouse	Warehouse	ACTIVE	2021-08-06 11:17:04
8	Xiomi Hafizhi Falah	XH95	Xiomi	Mi 9t Pro	ACTIVE	2021-08-06 11:16:10
9	Test123	Test123	Test123	Test123	ACTIVE	2021-08-03 12:20:00
10	Nik	Bukit Set... Bukit Setongkol	Bukit Set... Bukit Setongkol	Bukit Setongkol	ACTIVE	2021-07-08 15:59:25

Edit Device

Details

Device Name * Device Code *

Brand Model

Status

Created By Modified Date

A.16.5. Menu 03 - Reports

3.1 After closing Stock Take session, you may click on to the reports menu to view stock take listing

The screenshot shows the 'Stock Take Applet' interface. At the top, there are icons for Home, Logout, and Help. The title 'Stock Take Applet' is displayed. Below the title is a search bar with placeholder 'Search name and code' and a 'Download' button. To the right of the search bar are buttons for 'Rows' (set to 10), navigation arrows, and a page number 'page 1 of 2'. On the far right, there are 'Columns', 'Filters', and a refresh icon.

The main area is titled 'Report Listing' and contains a table with columns: Location, Date ↓, Session Name, Status, and Status Variance. The table lists various locations with their counts in parentheses:

Location	Date ↓	Session Name	Status	Status Variance
> L-SETAPAK (1)				
> CREATELOCATION (3)				
> DAYANGTEST-1(5)				
> AGROMART-PAKSONG (2)				
> stock branch (2)				
> ADDRESSLOCATION (7)				
> TEST (2)				
> L-123 (1)				
> WAREHOUSE 001 - PJ (1)				
> LOOB HOLDING (2)				

A.16.6. Permission Settings

A.16.7. Personalization

A.16.8. Related Applets

This applet also depends on the following applets:

- [Section A.14, “Organization Applet”](#)
- [Section A.11, “Inventory Item Maintenance Applet”](#)
- [Section A.8, “Doc Item Maintenance Applet”](#)

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.16.9. Pricing

A.16.10. Release Note

A.16.11. Roadmap

A.17. Supplier Maintenance Applet

A.17.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.17.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)
- [Section 4.6, “Membership Module”](#)
- [Section 4.7, “Referral Module”](#)
- [Section 4.8, “Customer Relationship Management”](#)
- [Section 4.9, “Contact Center Module”](#)
- [Section 4.10, “Digital Marketing Module”](#)
- [Section 4.11, “Marketplace Connector Module”](#)
- [Section 4.12, “Delivery Fulfillment Module”](#)
- [Section 4.13, “CP Commerce Module”](#)
- [Section 4.14, “Procure to Pay Module”](#)
- [Section 4.15, “HR Module”](#)
- [Section 4.16, “Order To Cash Module”](#)
- [Section 4.17, “Warehouse Management Module”](#)
- [Section 4.18, “Customer Data Platform”](#)
- [Section 4.19, “PGW Module”](#)
- [Section 4.20, “Chatbot Module”](#)
- [Section 4.21, “Process Automation Module”](#)
- [Section 4.22, “Datalake Module”](#)

A.17.3. Menu 01 - e.g. Sales Orders Listing

A.17.4. Menu 02 - e.g. Line Items

A.17.5. Permission Settings

A.17.6. Personalization

A.17.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

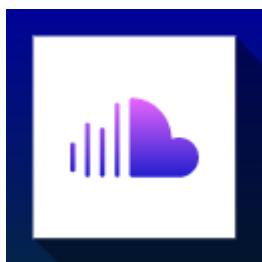
A.17.8. Pricing

A.17.9. Release Note

A.17.10. Roadmap

A.18. Tax Configuration Applet

A.18.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.18.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)
- [Section 4.3, “Inventory Module”](#)
- [Section 4.4, “Point of Sales Module”](#)
- [Section 4.5, “Manufacturing Module”](#)

- Section 4.6, “Membership Module”
- Section 4.7, “Referral Module”
- Section 4.8, “Customer Relationship Management”
- Section 4.9, “Contact Center Module”
- Section 4.10, “Digital Marketing Module”
- Section 4.11, “Marketplace Connector Module”
- Section 4.12, “Delivery Fulfillment Module”
- Section 4.13, “CP Commerce Module”
- Section 4.14, “Procure to Pay Module”
- Section 4.15, “HR Module”
- Section 4.16, “Order To Cash Module”
- Section 4.17, “Warehouse Management Module”
- Section 4.18, “Customer Data Platform”
- Section 4.19, “PGW Module”
- Section 4.20, “Chatbot Module”
- Section 4.21, “Process Automation Module”
- Section 4.22, “Datalake Module”

A.18.3. Menu 01 - e.g. Sales Orders Listing

A.18.4. Menu 02 - e.g. Line Items

A.18.5. Permission Settings

A.18.6. Personalization

A.18.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.18.8. Pricing

A.18.9. Release Note

A.18.10. Roadmap

A.19. UCC Applet

A.19.1. Introduction



This is a simple description of the applet, no more than 100 words.

A.19.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)

- Section 4.2, “Accounting Module”
- Section 4.3, “Inventory Module”
- Section 4.4, “Point of Sales Module”
- Section 4.5, “Manufacturing Module”
- Section 4.6, “Membership Module”
- Section 4.7, “Referral Module”
- Section 4.8, “Customer Relationship Management”
- Section 4.9, “Contact Center Module”
- Section 4.10, “Digital Marketing Module”
- Section 4.11, “Marketplace Connector Module”
- Section 4.12, “Delivery Fulfillment Module”
- Section 4.13, “CP Commerce Module”
- Section 4.14, “Procure to Pay Module”
- Section 4.15, “HR Module”
- Section 4.16, “Order To Cash Module”
- Section 4.17, “Warehouse Management Module”
- Section 4.18, “Customer Data Platform”
- Section 4.19, “PGW Module”
- Section 4.20, “Chatbot Module”
- Section 4.21, “Process Automation Module”
- Section 4.22, “Datalake Module”

A.19.3. Menu 01 - e.g. Sales Orders Listing

A.19.4. Menu 02 - e.g. Line Items

A.19.5. Permission Settings

A.19.6. Personalization

A.19.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3

- Applet 4

Also see

A.19.8. Pricing

A.19.9. Release Note

A.19.10. Roadmap

A.20. URL Shortening Applet

A.20.1. Introduction

This is a simple description of the applet, no more than 100 words.

Vincent Lee, [02/06/2022 9:33 PM] <https://drive.google.com/file/d/1IL4nMJRTWdENwB7t0402PNtAU0msEghE/view?usp=sharing>

Vincent Lee, [02/06/2022 9:36 PM] <https://wavelet.atlassian.net/browse/BLPR-24640>

Vincent Lee, [02/06/2022 9:39 PM] i just forwarded you several emails

Vincent Lee, [02/06/2022 9:40 PM] Below attached are the urls for the jamboard and moqup:
moqups: <https://app.moqups.com/nVNUQ9keb/edit/page/a3d66bff5> jamboard:
<https://jamboard.google.com/d/125D0f5IAFhqDPBbytADRVxxfHyOB77QPH-lWH8pv3oY/viewer?f=0>

Vincent Lee, [02/06/2022 9:40 PM] <https://jamboard.google.com/d/125D0f5IAFhqDPBbytADRVxxfHyOB77QPH-lWH8pv3oY/viewer?f=0>

Vincent Lee, [02/06/2022 9:42 PM] https://docs.google.com/spreadsheets/d/19omgwglZ6QfZVdnfQQQ65VcreWfqssJhCDzy_OMdeiw/edit#gid=1640556344

Useful pages for Universal Links/App Links: - <https://branch.io/what-is-deep-linking/> - <https://developer.apple.com/library/archive/documentation/General/Conceptual/AppSearch/UniversalLinks.html> - <https://developer.android.com/training/app-links> - <https://developer.android.com/studio/write/app-link-indexing.html> - <https://github.com/ionic-team/ionic-plugin-deeplinks>

Useful pages for Firebase Dynamic Links: - <https://firebase.google.com/docs/dynamic-links/create-manually?authuser=0> - <https://firebase.google.com/docs/reference/dynamic-links/link-shortener?authuser=0>

A.20.2. Modules

This applet is used in the following modules:

- [Section 4.1, “Core Module”](#)
- [Section 4.2, “Accounting Module”](#)

- Section 4.3, “Inventory Module”
- Section 4.4, “Point of Sales Module”
- Section 4.5, “Manufacturing Module”
- Section 4.6, “Membership Module”
- Section 4.7, “Referral Module”
- Section 4.8, “Customer Relationship Management”
- Section 4.9, “Contact Center Module”
- Section 4.10, “Digital Marketing Module”
- Section 4.11, “Marketplace Connector Module”
- Section 4.12, “Delivery Fulfillment Module”
- Section 4.13, “CP Commerce Module”
- Section 4.14, “Procure to Pay Module”
- Section 4.15, “HR Module”
- Section 4.16, “Order To Cash Module”
- Section 4.17, “Warehouse Management Module”
- Section 4.18, “Customer Data Platform”
- Section 4.19, “PGW Module”
- Section 4.20, “Chatbot Module”
- Section 4.21, “Process Automation Module”
- Section 4.22, “Datalake Module”

A.20.3. Menu 01 - e.g. Sales Orders Listing

A.20.4. Menu 02 - e.g. Line Items

A.20.5. Permission Settings

A.20.6. Personalization

A.20.7. Related Applets

This applet also depends on the following applets:

- Applet 1
- Applet 2

The following applets depends on this applet:

- Applet 3
- Applet 4

Also see

A.20.8. Pricing

A.20.9. Release Note

A.20.10. Roadmap