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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- Single File HTML
- PDF Format

Table of Contents

1. BigLedger Overview 13
1.1. BigLedger Overview 13
1.1.1. Overview - Introduction 13
2. User Guide 14
2.1. Applet Users 14
2.1.1. Your AkaunID 14
2.1.2. The Production, Staging and Development Environment 14
2.1.3. Understanding Root vs Tenant 14
2.1.4. The Applet Store 15
2.2. Project Implementors 16
2.2.1. Subscription setup in Akaun Platform 16
2.2.2. Tenant setup in Akaun Platform 16
2.2.3. Applet-Catalogs 16
2.2.4. Configuration of Core Modules 17
2.3. Tenant Owners 18
2.3.1. What is a Tenant ? 18
2.3.2. Managing Users 18
2.3.3. Fees and Charges 18
2.3.4. Access and Permissions 18
2.3.5. System Performance 18
2.3.6. API 18
2.3.7. Subscriptions , Applet-Catalogs , Applets 18
2.3.8. Audit Trail 18
2.4. Applet Developers 19
2.4.1. Signing up your AkaunID 19
2.5. Reseller Guide 20
2.5.1. Section 1 20
2.5.2. Section 2 20
2.6. System Integrators 21
2.6.1. Getting Started 21
2.6.2. List of ETL Endpoints 25
3. Industry Guide 40
3.1. Consumer Electronics Industry 40
3.1.1. Overview 40
3.1.2. Solutions 40
3.1.3. Stories 40
3.1.4. FAQs 40
3.2. Pharmacy Industry 40

3.2.1. Overview 40
3.2.2. Solutions 40
3.2.3. Stories 40
3.2.4. FAQs 40
3.3. Car Workshops 40
3.3.1. Overview 40
3.3.2. Solutions 40
3.3.3. Stories 40
3.3.4. FAQs 40
3.4. Retail Chainstores 40
3.4.1. Overview 40
3.4.2. Solutions 40
3.4.3. Stories 40
3.4.4. FAQs 40
3.5. Logistics Industry 41
3.5.1. Overview 41
3.5.2. Solutions 41
3.5.3. Stories 41
3.5.4. FAQs 41
3.6. Manufacturing Industry 41
3.6.1. Overview 41
3.6.2. Solutions 41
3.6.3. Stories 41
3.6.4. FAQs 41
3.7. Pet Industry 41
3.7.1. Overview 41
3.7.2. Solutions 41
3.7.3. Stories 41
3.7.4. FAQs 41
4. Guide by Modules 42
4.1. Core Module 42
4.1.1. Introduction 42
4.1.2. Module Name - Unique Value Proposition 42
4.1.3. Core Module - Related Applets 43
4.1.4. Module Name - Project Implementation Steps 43
4.2. Accounting Module 44
4.2.1. Introduction 44
4.2.2. Accounting - Unique Value Proposition 44
4.2.3. Accounting Module - Related Applets 44
4.2.4. Module Name - Project Implementation Steps 44
4.3. Inventory Module 46

4.3.1. Introduction . . . 46
4.3.2. Inventory Module - Unique Value Proposition . . . 46
4.3.3. Inventory Module - Related Applets . . . 46
4.3.4. Inventory Module - Project Implementation Steps . . . 46
4.4. Point of Sales Module . . . 47
4.4.1. Introduction . . . 47
4.4.2. Point of Sales - Unique Value Proposition . . . 48
4.4.3. Point of Sales Module - Related Applets . . . 48
4.4.4. Point of Sales Module - Project Implementation Steps . . . 48
4.5. Manufacturing Module . . . 49
4.5.1. Introduction . . . 49
4.5.2. Manufacturing - Unique Value Proposition . . . 49
4.5.3. Manufacturing - Related Applets . . . 49
4.5.4. Manufacturing - Project Implementation Steps . . . 49
4.6. Membership Module . . . 51
4.6.1. Membership Module Introduction . . . 51
4.6.2. Membership - Unique Value Proposition . . . 51
4.6.3. Membership - Related Applets . . . 51
4.6.4. Membership - Project Implementation Steps . . . 51
4.7. Referral Module . . . 52
4.7.1. Introduction . . . 52
4.7.2. Referral - Unique Value Proposition . . . 53
4.7.3. Referral Module - Related Applets . . . 53
4.7.4. Module Name - Project Implementation Steps . . . 53
4.8. Customer Relationship Management . . . 54
4.8.1. Introduction . . . 54
4.8.2. CRM - Unique Value Proposition . . . 55
4.8.3. CRM - Related Applets . . . 55
4.8.4. CRM - Project Implementation Steps . . . 55
4.9. Contact Center Module . . . 56
4.9.1. Introduction . . . 56
4.9.2. Contact Center - Unique Value Proposition . . . 57
4.9.3. Contact Center - Related Applets . . . 57
4.9.4. Contact Center - Project Implementation Steps . . . 57
4.10. Digital Marketing Module . . . 58
4.10.1. Introduction . . . 58
4.10.2. Digital Marketing - Unique Value Proposition . . . 58
4.10.3. Digital Marketing - Related Applets . . . 58
4.10.4. Digital Marketing - Project Implementation Steps . . . 58
4.11. Marketplace Connector Module . . . 60
4.11.1. Introduction . . . 60

4.11.2. Marketplace Connector - Unique Value Proposition . . . 60
4.11.3. Marketplace Connector - Related Applets . . . 60
4.11.4. Marketplace Connector - Project Implementation Steps . . . 60
4.12. Delivery Fulfillment Module . . . 61
4.12.1. Introduction . . . 61
4.12.2. Delivery Fulfillment - Unique Value Proposition . . . 62
4.12.3. Delivery Fulfillment - Related Applets . . . 62
4.12.4. Delivery Fulfillment - Project Implementation Steps . . . 62
4.13. CP Commerce Module . . . 63
4.13.1. Introduction . . . 63
4.13.2. CP Commerce - Unique Value Proposition . . . 67
4.13.3. CP Commerce - Related Applets . . . 67
4.13.4. CP Commerce - Project Implementation Steps . . . 67
4.13.5. Work Breakdown . . . 68
4.13.6. Product Maintenance . . . 70
4.13.7. Shipping Fees . . . 70
4.13.8. Settlement Methods . . . 70
4.13.9. Order Fulfillment . . . 70
4.13.10. Search Engine Optimization . . . 70
4.13.11. QC Checklist . . . 70
4.14. Procure to Pay Module . . . 70
4.14.1. Introduction . . . 70
4.14.2. Procure To Pay - Unique Value Proposition . . . 71
4.14.3. Procure To Pay - Related Applets . . . 71
4.14.4. Procure To Pay - Project Implementation Steps . . . 71
4.15. HR Module . . . 72
4.16. Order To Cash Module . . . 72
4.16.1. Introduction . . . 72
4.16.2. Order To Cash - Unique Value Proposition . . . 72
4.16.3. Order To Cash - Related Applets . . . 73
4.16.4. Order To Cash - Project Implementation Steps . . . 73
4.17. Warehouse Management Module . . . 74
4.17.1. Introduction . . . 74
4.17.2. Warehouse Management - Unique Value Proposition . . . 74
4.17.3. Warehouse Management - Related Applets . . . 74
4.17.4. Warehouse Management - Project Implementation Steps . . . 74
4.18. Customer Data Platform . . . 75
4.18.1. Introduction . . . 76
4.18.2. Customer Data Platform - Unique Value Proposition . . . 76
4.18.3. Customer Data Platform - Related Applets . . . 76
4.18.4. Customer Data Platform - Project Implementation Steps . . . 76

4.19. PGW Module ... 77
4.19.1. Introduction ... 77
4.19.2. Payment Gateway Module - Unique Value Proposition ... 78
4.19.3. Module Name - Related Applets ... 78
4.19.4. Module Name - Project Implementation Steps ... 78
4.20. Chatbot Module ... 79
4.20.1. Introduction ... 79
4.20.2. Chatbot - Unique Value Proposition ... 79
4.20.3. Chatbot - Related Applets ... 79
4.20.4. Module Name - Project Implementation Steps ... 79
4.21. Process Automation Module ... 80
4.22. Datalake Module ... 81
4.22.1. Introduction ... 81
4.22.2. Datalake - Unique Value Proposition ... 81
4.22.3. Datalake - Related Applets ... 81
4.22.4. Datalake - Project Implementation Steps ... 81
5. Technical Guide ... 83
5.1. Applet Development Guide ... 83
5.1.1. Introduction ... 83
5.1.2. Creating a new Applet ... 83
5.1.3. Deploying applet to s3 ... 83
5.1.4. Developer SysAdmin Applet ... 83
5.1.5. Example Applet Template ... 83
5.1.6. Inactive Applet ... 83
5.1.7. Publishing an Applet ... 84
5.1.8. Releasing new version of the applets ... 84
5.1.9. Full Deletion of Applet ... 84
5.1.10. Quality Control Checklist ... 84
5.1.11. Support and Maintenance of Applet ... 85
5.1.12. Suspension of Applet ... 85
5.1.13. Types of Applet ... 85
5.1.14. UI Design Guidelines ... 85
5.1.15. Vendor Account ... 85
5.1.16. Applet Permission Template ... 85
5.1.17. Pricing for applets ... 85
5.1.18. Scheduler for applet ... 86
5.1.19. Webhooks for Applets ... 86
5.1.20. Archiving an Applet ... 86
5.1.21. Client Side Settings ... 86
5.2. ETL Guide ... 86
5.3. Cloud Native Architecture ... 86

5.3.1. Background . . . 86
5.3.2. Motivation . . . 86
5.3.3. Integrations . . . 87
5.3.4. Infrastructure and Toolchain . . . 87
5.3.5. Network Effect . . . 87
5.3.6. Cloud Cost Savings . . . 87
5.3.7. Artificial Intelligence . . . 87
5.3.8. Human Resource . . . 87
5.3.9. Journey . . . 87
5.3.10. Challenges and Lessons . . . 87
5.3.11. Technical Considerations . . . 87
Glossary . . . 88
Appendix A: Applet Directory . . . 89
A.1. Applet Listing . . . 89
A.2. Applet Store . . . 89
A.2.1. Introduction . . . 89
A.2.2. Modules . . . 89
A.2.3. Menu 01 - e.g. Sales Orders Listing . . . 90
A.2.4. Menu 02 - e.g. Line Items . . . 90
A.2.5. Permission Settings . . . 90
A.2.6. Personalization . . . 90
A.2.7. Related Applets . . . 90
A.2.8. Pricing . . . 90
A.2.9. Release Note . . . 90
A.2.10. Roadmap . . . 90
A.3. Bank Reconciliation Applet . . . 90
A.3.1. Introduction . . . 90
A.3.2. Modules . . . 91
A.3.3. Menu 01 - e.g. Sales Orders Listing . . . 92
A.3.4. Menu 02 - e.g. Line Items . . . 92
A.3.5. Permission Settings . . . 92
A.3.6. Personalization . . . 92
A.3.7. Related Applets . . . 92
A.3.8. Pricing . . . 92
A.3.9. Release Note . . . 92
A.3.10. Roadmap . . . 92
A.4. Cashbook Applet . . . 92
A.4.1. Introduction . . . 92
A.4.2. Modules . . . 93
A.4.3. Menu 01 - e.g. Sales Orders Listing . . . 93
A.4.4. Menu 02 - e.g. Line Items . . . 93

A.4.5. Permission Settings 93
A.4.6. Personalization 93
A.4.7. Related Applets 93
A.4.8. Pricing 94
A.4.9. Release Note 94
A.4.10. Roadmap 94
A.5. Chart of Account Applet 94
A.5.1. Introduction 94
A.5.2. Modules 94
A.5.3. Menu 01 - e.g. Sales Orders Listing 95
A.5.4. Menu 02 - e.g. Line Items 95
A.5.5. Permission Settings 95
A.5.6. Personalization 95
A.5.7. Related Applets 95
A.5.8. Pricing 95
A.5.9. Release Note 95
A.5.10. Roadmap 95
A.6. CP Commerce Admin Applet 96
A.6.1. Introduction 96
A.6.2. Modules 96
A.6.3. Websites 97
A.6.4. Forms 97
A.6.5. Topics 97
A.6.6. Rating Configuration 97
A.6.7. Template Forms 97
A.6.8. Submitted Forms 97
A.6.9. Spending Limit 97
A.6.10. Blocked Customers 97
A.6.11. Activities 97
A.6.12. Permission Settings 97
A.6.13. Personalization 97
A.6.14. Related Applets 97
A.6.15. Pricing 97
A.6.16. Release Note 97
A.6.17. Roadmap 97
A.7. Customer Maintenance Applet 98
A.7.1. Introduction 98
A.7.2. Modules 98
A.7.3. Menu 01 - e.g. Sales Orders Listing 99
A.7.4. Menu 02 - e.g. Line Items 99
A.7.5. Permission Settings 99

A.7.6. Personalization 99
A.7.7. Related Applets 99
A.7.8. Pricing 99
A.7.9. Release Note 99
A.7.10. Roadmap 99
A.8. Doc Item Maintenance Applet 99
A.8.1. Introduction 99
A.8.2. Modules 100
A.8.3. Menu 01 - e.g. Sales Orders Listing 100
A.8.4. Menu 02 - e.g. Line Items 101
A.8.5. Permission Settings 101
A.8.6. Personalization 101
A.8.7. Related Applets 101
A.8.8. Pricing 101
A.8.9. Release Note 101
A.8.10. Roadmap 101
A.9. Employee Maintenance Applet 101
A.9.1. Introduction 101
A.9.2. Modules 102
A.9.3. Menu 01 - e.g. Sales Orders Listing 102
A.9.4. Menu 02 - e.g. Line Items 102
A.9.5. Permission Settings 102
A.9.6. Personalization 102
A.9.7. Related Applets 102
A.9.8. Pricing 103
A.9.9. Release Note 103
A.9.10. Roadmap 103
A.10. Entity Maintenance Applet 103
A.10.1. Introduction 103
A.10.2. Modules 103
A.10.3. Menu 01 - e.g. Sales Orders Listing 104
A.10.4. Menu 02 - e.g. Line Items 104
A.10.5. Permission Settings 104
A.10.6. Personalization 104
A.10.7. Related Applets 104
A.10.8. Pricing 104
A.10.9. Release Note 104
A.10.10. Roadmap 104
A.11. Inventory Item Maintenance Applet 105
A.11.1. Introduction 105
A.11.2. Modules 105

A.11.3. Menu 01 - e.g. Sales Orders Listing ... 106
A.11.4. Menu 02 - e.g. Line Items ... 106
A.11.5. Permission Settings ... 106
A.11.6. Personalization ... 106
A.11.7. Related Applets ... 106
A.11.8. Pricing ... 106
A.11.9. Release Note ... 106
A.11.10. Roadmap ... 106
A.12. Media Library Applet ... 106
A.13. Introduction ... 106
A.13.1. Modules ... 107
A.13.2. Menu 01 - e.g. Sales Orders Listing ... 107
A.13.3. Menu 02 - e.g. Line Items ... 108
A.13.4. Permission Settings ... 108
A.13.5. Personalization ... 108
A.13.6. Related Applets ... 108
A.13.7. Pricing ... 108
A.13.8. Release Note ... 108
A.13.9. Roadmap ... 108
A.14. Merchant Admin Maintenance Applet ... 108
A.14.1. Introduction ... 108
A.14.2. Modules ... 109
A.14.3. Menu 01 - e.g. Sales Orders Listing ... 110
A.14.4. Menu 02 - e.g. Line Items ... 110
A.14.5. Permission Settings ... 110
A.14.6. Personalization ... 110
A.14.7. Related Applets ... 110
A.14.8. Pricing ... 110
A.14.9. Release Note ... 110
A.14.10. Roadmap ... 110
A.15. Organization Applet ... 111
A.15.1. Introduction ... 111
A.15.2. Modules ... 111
A.15.3. Menu 01 - e.g. Sales Orders Listing ... 112
A.15.4. Menu 02 - e.g. Line Items ... 112
A.15.5. Permission Settings ... 112
A.15.6. Personalization ... 112
A.15.7. Related Applets ... 112
A.15.8. Pricing ... 112
A.15.9. Release Note ... 112
A.15.10. Roadmap ... 112

A.16. Payment Channel Applet 112
A.16.1. Introduction 112
A.16.2. Modules 113
A.16.3. Menu 01 - e.g. Sales Orders Listing 113
A.16.4. Menu 02 - e.g. Line Items 113
A.16.5. Permission Settings 113
A.16.6. Personalization 113
A.16.7. Related Applets 113
A.16.8. Pricing 114
A.16.9. Release Note 114
A.16.10. Roadmap 114
A.17. Stock Take V2 Applet 114
A.17.1. Introduction 114
A.17.2. Modules 114
A.17.3. Menu 01 - e.g. Sales Orders Listing 115
A.17.4. Menu 02 - e.g. Line Items 115
A.17.5. Permission Settings 115
A.17.6. Personalization 115
A.17.7. Related Applets 115
A.17.8. Pricing 116
A.17.9. Release Note 116
A.18. Roadmap 116
A.19. Supplier Maintenance Applet 116
A.19.1. Introduction 116
A.19.2. Modules 116
A.19.3. Menu 01 - e.g. Sales Orders Listing 117
A.19.4. Menu 02 - e.g. Line Items 117
A.19.5. Permission Settings 117
A.19.6. Personalization 117
A.19.7. Related Applets 117
A.19.8. Pricing 117
A.19.9. Release Note 117
A.19.10. Roadmap 117
A.20. Tax Configuration Applet 117
A.20.1. Introduction 117
A.20.2. Modules 118
A.20.3. Menu 01 - e.g. Sales Orders Listing 118
A.20.4. Menu 02 - e.g. Line Items 118
A.20.5. Permission Settings 118
A.20.6. Personalization 119
A.20.7. Related Applets 119

A.20.8. Pricing . . . 119
A.20.9. Release Note . . . 119
A.20.10. Roadmap . . . 119
A.21. UCC Applet . . . 119
A.21.1. Introduction . . . 119
A.21.2. Modules . . . 120
A.21.3. Menu 01 - e.g. Sales Orders Listing . . . 121
A.21.4. Menu 02 - e.g. Line Items . . . 121
A.21.5. Permission Settings . . . 121
A.21.6. Personalization . . . 121
A.21.7. Related Applets . . . 121
A.21.8. Pricing . . . 121
A.22. Release Note . . . 121
A.22.1. Roadmap . . . 121
A.23. URL Shortening Applet . . . 122
A.23.1. Introduction . . . 122
A.23.2. Modules . . . 122
A.23.3. Menu 01 - e.g. Sales Orders Listing . . . 123
A.23.4. Menu 02 - e.g. Line Items . . . 123
A.23.5. Permission Settings . . . 123
A.23.6. Personalization . . . 123
A.23.7. Related Applets . . . 123
A.23.8. Pricing . . . 123
A.23.9. Release Note . . . 123
A.23.10. Roadmap . . . 123

Chapter 1. BigLedger Overview

1.1. BigLedger Overview

1.1.1. Overview - Introduction

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- Epub Format
- Single File HTML

Chapter 2. User Guide

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

2.1. Applet Users

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/

2.1.1. 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.

2.1.2. 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 life 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.

2.1.3. 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 users 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"

2.1.4. 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

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.

2.2.1. 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.*)

2.2.2. 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" _)

2.2.3. 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).

2.2.4. 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. What is a Tenant ?

2.3.2. 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

2.3.3. Fees and Charges

2.3.4. Access and Permissions

2.3.5. System Performance

2.3.6. API

2.3.7. Subscriptions , Applet-Catalogs , Applets

2.3.8. Audit Trail

2.4. Applet Developers

Guide for applet Developers

2.4.1. Signing up your AkaunID

2.5. Reseller Guide

Guide for resellers

2.5.1. Section 1

2.5.2. Section 2

2.6. System Integrators

2.6.1. Getting Started

This guide is meant for system integrators who are NOT developing Akaun Applets, third party system integrators refer to developers intending to consume the Akaun API.

2.6.1.1. Developer Account Registration and Configuration

Akaun provides various environment for developers to test, stage and deploy into production.

	Sandbox	Staging	Production: Akaun.com	Production: Akaun.in	Production: Akaun.cn
Custom Hostnames	*.akaun.xyz	*.akaun.app	*.akaun.net	*.akauncom.in	*.akaun.com.cn
Region	Singapore	Singapore	Singapore	India	China
status	Live	Live	Live	FUTURE	FUTURE
Description	This is the developer sandbox to experiments , test and develop.	This is for UAT, Demo, Final testing before deployment to the production environment.	This is the global live environment.	This is the isolated environment for India market.	This is the isolated environment for China market.
Shell Website	https://akaun.dev	https://akaun.cloud	https://akaun.com	https://akaun.in	https://akaun.cn
API	api.akaun.dev	api.akaun.cloud	api.akaun.com		

Registration of developer account

As a new developer, the developer should register an account in Production environment via the website: https://akaun.com. These are the brief registration steps:

- Register an account using either email or phone number
- Activate account using 6 digits number

Registration of user account in production environment

A new user should register an account at: https://akaun.com:

- Register an account using either email or phone number
- Activate account using 6 digits number
- Login and install desired applets

Vendor and Developer Registration

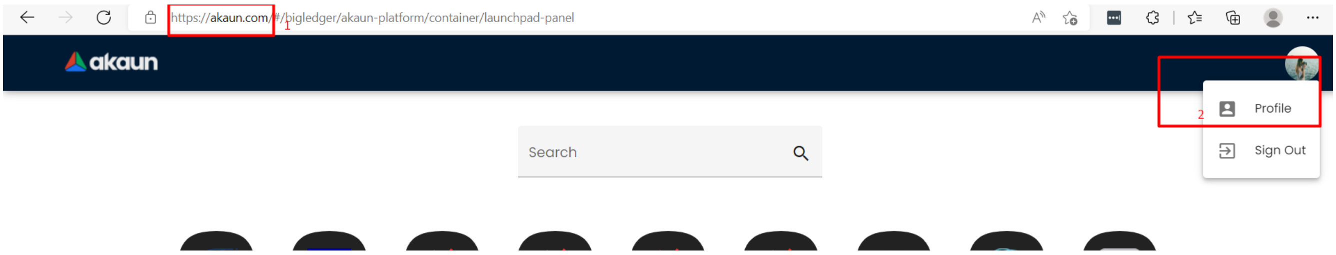
Registration of user account in development environment

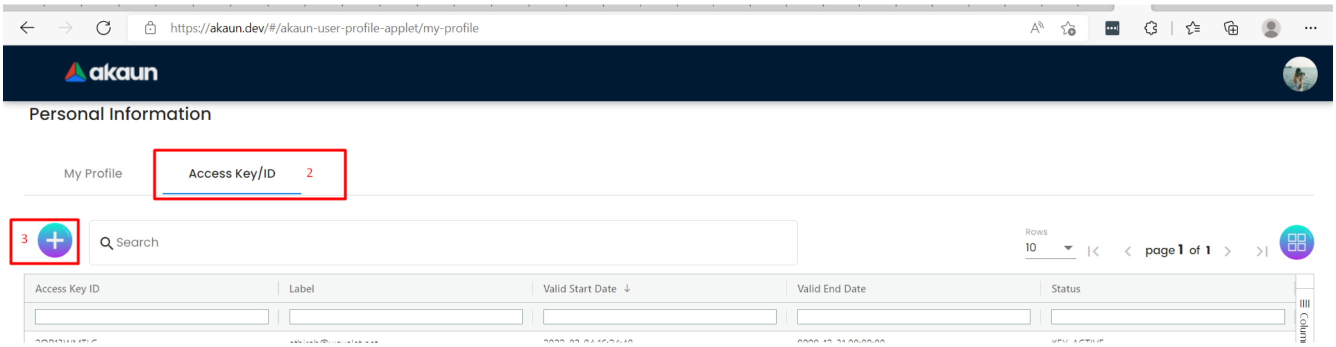
Similar to product environment, a new user register a development account at: https://akaun.dev

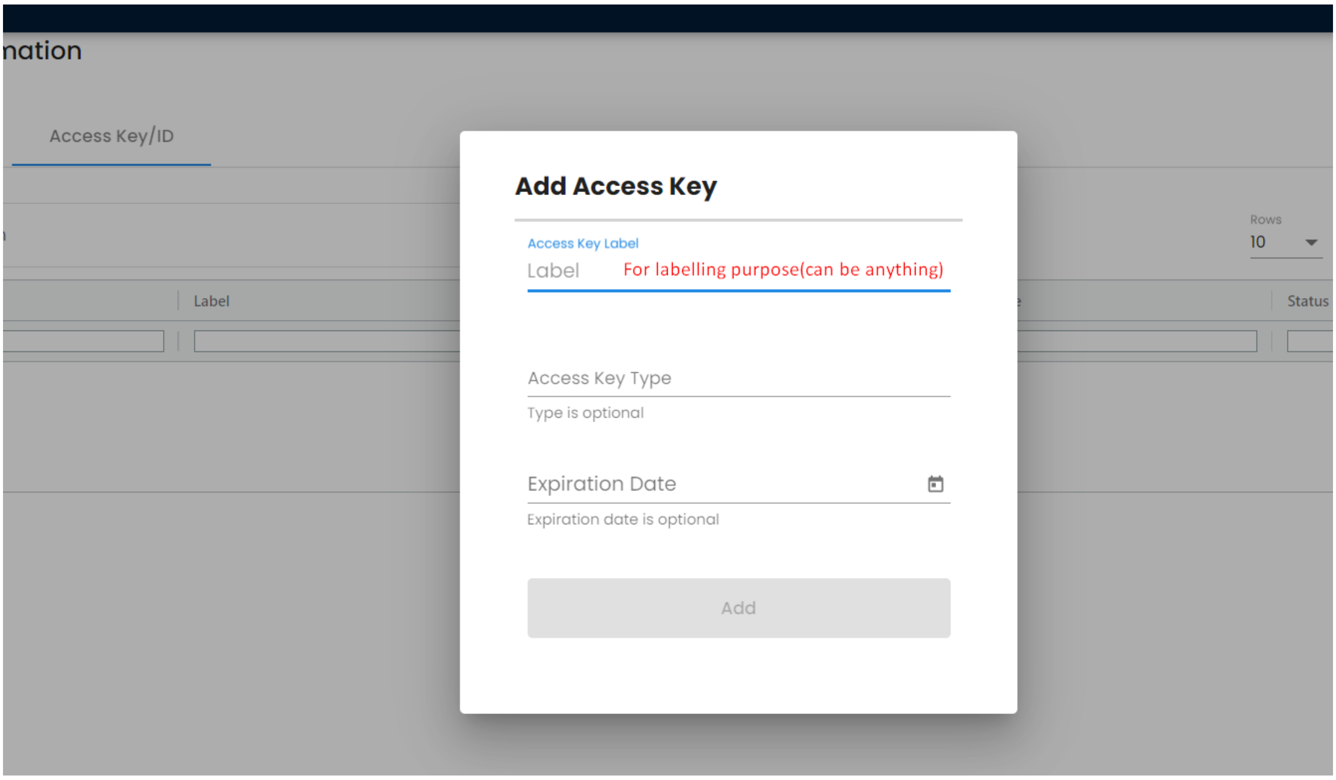
- Register an account using the same email or phone at https://akaun.com
- Activate account using 6 digits number
- Login and install desired applets

Obtaining access id and access key

These access key is required as credential to call etl endpoint. Please go to https://akaun.prod (depending on the environment) and follow these step:







2.6.1.2. Understanding Akaun Applet Platform

Akaun Platform System Diagram

Understanding various endpoint based permission schemes

Using the API Reference

2.6.1.3. API Testing

Software Tools to test the APIs

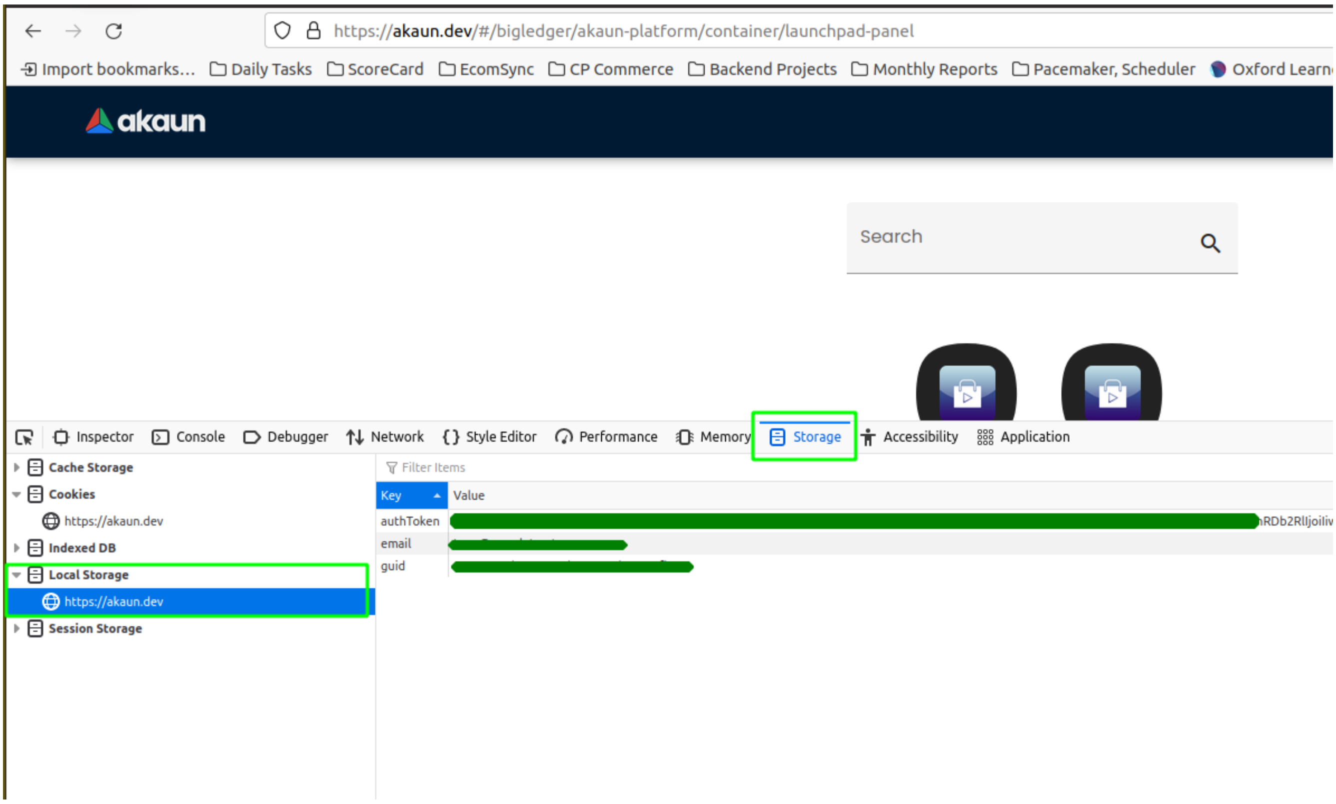
Api Developers may test the api in stoplight documentation: https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public

Environment	Website URL	Api URL
Sandbox (development)	https://akaun.dev	https://api.akaun.dev/{endpoint_url}
Staging environment	https://akaun.cloud	https://api.akaun.cloud/{endpoint_url}
Production environment	https://akaun.com	https://api.akaun.com/{endpoint_url}

Notice: AuthToken is refreshed every month, developers should get new authToken once every month(for testing api using authtoken**not applicable for etl endpoint).

Below is the method to get authToken using sandbox (development) environment as an example

- Login into https://akaun.dev
- Right click on an empty space and choose “Inspect”
- Find “Local Storage” under “Storage” tag



Using the "System Integration Applet"

Example of frequently used APIs

a. Product API

b. Customer API

c. Sales Order API

2.6.1.4. Understanding Triggers and Web hooks

When you are integrating with the Akaun Platform, instead of polling the APIs with repetitive schedulers, it is possible for the system integrators to be using Web Hooks for more efficient integrations.

Webhooks

a. Briefing on webhook

Webhooks are used in BigLedger to allow external integrations to be called whenever a particular event occurs. Usually, the event is an API call received by BigLedger.

For any kind of event such as creating vouchers or creating Items:

- From BigLedger side, a topic of webhook is created
- From external side, they will need to subscribe to those topics. And later when they do any operations like "create Item", the webhook will be triggered and they will get a response.

2.6.1.5. Virtual ETL Applet

Virtual Etl applet is an applet which for setting purpose including organization of the permission for etl APIs. Platform Sysadmin will be in charge of installing the the applet and granting necessary permission to access etl APIs.

Once the permission granted, the user may try to access the endpoint to ensure the permissions are successfully granted. The user also may visit this applet to see the list of permission being granted.

2.6.2. List of ETL Endpoints

These are list of etl endpoint with description. In order to use the api, please ensure you have the access key and access id. If you do not yet create access key and access id, please refer to this link (Section 2.6.1.1, “Developer Account Registration and Configuration”)

The links of api will leads to stoplight documentation website for reference and testing purpose

2.6.2.1. Financial Item API

Financial item is storing every type of item including inventory/non inventory product, voucher, warranty etc. In order to create sales order or product syncing from marketplace, the item need to be created and store in financial item table. Financial Item container consists of three tables for data storing which are:

- bl_fi_mst_item_hdr
  - consist of details of the item
  - the child item of the group item is considered as single item(basic_item)
- bl_fi_mst_item_ext
  - this table store extra information which not stored in header or line
- bl_fi_mst_item_line
  - this table to store the child item after the child item being created in header table as single product. It is to link child item to specific group product.

Create Financial Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/5b75f5fe0e7aa-create-financial-item-etl

Update Financial Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/295784efab326-update-financial-item-etl

Get all Financial Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/0ee6f6e50f5e3-get-all-ecomsync-item-etl-ep

Get Financial Item by Guid

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/7944401702018-get-financial-item-by-guid-etl

Get Financial Item by Criteria

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/6df7f69f6c4f8-get-ecomsync-item-by-query-etl-ep

Delete Financial Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/71405b7103746-delete-financial-item-by-guid-etl

Get All Financial Item Extension

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/e51e41d5fc1a9-get-all-ecomsync-item-extensions-etl-ep

Create Financial Item Extension

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/4a50f7cd4d7cf-create-ecomsync-item-extension-etl-ep

Update Financial Item Extension

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/15ff4a9d542f9-update-ecomsync-item-extension-etl-ep

Get Financial Item Extension By Guid

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/97913c9d1d2ea-get-ecomsync-item-extension-by-guid-etl-ep

Delete Financial Item Extension

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/b82778b66b76c-delete-ecomsync-item-extension-by-guid-etl-ep

Get Financial Item Extension By Criteria

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/b0b7a9b4c805d-get-ecomsync-item-extension-by-query-etl-ep

Get All Financial Item Line

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/6eddda835861e-get-all-ecomsync-item-lines-etl-ep

Create Financial Item Line

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/5df4b6cc4f6df-create-ecomsync-item-line-etl-ep

Update Financial Item Line

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/712933bd78ea8-update-ecomsync-item-line-etl-ep

Get Financial Item Line By Guid

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/c6d77508653f7-get-ecomsync-item-line-by-guid-etl-ep

Delete Financial Item Line

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/1c8eb2f0066e1-delete-ecomsync-item-line-by-guid-etl-ep

Get Financial Item Line By Criteria

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/92a7efd385ddd-get-ecomsync-item-line-by-query-etl-ep

Add Files to Financial Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/d968514aaa538-add-files-for-ecomsync-item-etl-ep

Get File In Financial Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/958568a53ac93-get-file-of-ecomsync-item-etl-ep

2.6.2.2. Ecomsync Item Api

Ecomsync item is where the product stored for marketplace such as Lazada, Shopee, CpCommerce or any Ecommerce platform. In order for any item to be created/synced from marketplace to blg database or vice versa, the item must be created in financial item beforehand through api Section 2.6.2.1, “Financial Item API” or doc item maintenance applet.

- bl_fi_mst_ecomsync_item_hdr
  - compulsory table that need to be passed
  - consist of details of marketplace product
- bl_fi_mst_ecomsync_item_ext
  - consists of extra information of the product that not exist in header or line table
- bl_fi_mst_ecomsync_item_line
  - this table is storing marketplace product details for child item

Create Ecomsync Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/63fba45dbd3fc-create-ecomsync-item-etl-ep

Update Ecomsync Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/bebff518c890b-update-ecomsync-item-etl-ep

Get all Ecomsync Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/0ee6f6e50f5e3-get-all-ecomsync-item-etl-ep

Get Ecomsync Item by Guid

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/be1c6ce90be69-get-ecomsync-item-by-guid-etl-ep

Get Ecomsync Item by Criteria

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/6df7f69f6c4f8-get-ecomsync-item-by-query-etl-ep

Delete Ecomsync Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/9545dd93ac5b4-delete-ecomsync-item-by-guid-etl-ep

Create Ecomsync Item Extension

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/4a50f7cd4d7cf-create-ecomsync-item-extension-etl-ep

Update Ecomsync Item Extension

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/15ff4a9d542f9-update-ecomsync-item-extension-etl-ep

Get All Ecomsync Item Extension

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/e51e41d5fc1a9-get-all-ecomsync-item-extensions-etl-ep

Get Ecomsync Item Extension by Guid

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/97913c9d1d2ea-get-ecomsync-item-extension-by-guid-etl-ep

Get Ecomsync Item Extension by Criteria

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/b0b7a9b4c805d-get-ecomsync-item-extension-by-query-etl-ep

Delete Ecomsync Item Extension

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/b82778b66b76c-delete-ecomsync-item-extension-by-guid-etl-ep

Create Ecomsync Item Line

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/5df4b6cc4f6df-create-ecomsync-item-line-etl-ep

Update Ecomsync Item Line

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/712933bd78ea8-update-ecomsync-item-line-etl-ep

Get All Ecomsync Item Line

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/6eddda835861e-get-all-ecomsync-item-lines-etl-ep

Get Ecomsync Item Line By Guid

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/c6d77508653f7-get-ecomsync-item-line-by-guid-etl-ep

Get Ecomsync Item Line by Criteria

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/92a7efd385ddd-get-ecomsync-item-line-by-query-etl-ep

Delete Ecomsync Item Line

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/1c8eb2f0066e1-delete-ecomsync-item-line-by-guid-etl-ep

Add Multiple Files In Ecomsync Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/d968514aaa538-add-files-for-ecomsync-item-etl-ep

Get File In Ecomsync Item

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/958568a53ac93-get-file-of-ecomsync-item-etl-ep

2.6.2.3. Stock Availability API

This api to get stock availability of the product which synced from marketplace. To get stock availability, you may refer to Ecomsync Item Api(Section 2.6.2.2, “Ecomsync Item Api”). The stock availability is stored in bl_fi_mst_ecomsync_item_hdr.qty_balance.

The different between stock availability and stock balance is stock availability is the stock which can be sold to customer while stock balance is the stock which exist/hold by the branch. Meaning if the stock has been ordered(sales order created), the stock will be deducted from stock availability as it is already booked for the customer. Once sales invoice created, the stock will also be deducted from stock balance.

The stock balance is obtained from multiple branches which will be configured by users in organization applet.Based on this selection of branches, everytime the sales order created, the system will updated the stock availability in bl_fi_mst_ecomsync_item_hdr.qty_balance where the mkt_guid(branch/marketplace) part of branch that are configured.

The calculation of stock availability as followed

- Single item
  - Qty_To_Sync_To_Marketplace = Qty_of_System_Stock(multiple locations) - Qty_of_Open_Sales_order - Qty_buffer_configured
    - bl_fi_mst_ecomsync_item_hdr.qty_buffer = Qty_buffer_configured → this figure is set in the organization applet
      - qty_buffer is the total stock that will be held from included in stock availability. The purpose is ensured there are extra stock in case of emergency or reserved for specific reason.
    - Qty_of_Open_Sales_order is calculated from bl_fi_generic_doc_line_open_queue

2.6.2.4. Sales order API

Sales order consists of five tables for data storing which are:

- bl_fi_generic_doc_hdr
  - compulsory table that need to be passed
  - consist of details of sales order including sales order number, billing and and delivery details
- bl_fi_generic_doc_line
  - consists of details ofitem including voucher involve in sales order transaction
- bl_fi_generic_doc_ext
  - this table store extra information which not stored in bl_fi_generic_doc_hdr
- bl_fi_generic_doc_event
  - this table for report tracking purpose. For example when sales order successfully synced from marketplace, the row will be inserted to indicate the syncing process happened
- bl_fi_generic_doc_link
  - this table to link the generic document. It can link from any server doc type such sales order, sales invoice etc

Calculation in line level:

Generic Doc Line	remarks	formula
unit_price_std	taken from bl_fi_mst_pricing_scheme_hdr with uom etc	1) user use unit_price_by_uom unit_price_std = unit_price_by_uom / uom_to_base_ratio 2) user key in amount_std unit_price_std = amount_std / qty_base 3) user key in amount_net, amount_disc, or other fields unit_price not changing, because it is taken from the base-uom and pricing scheme

Generic Doc Line	remarks	formula
unit_discount	This is not stored in the DATABASE, only showed in the angular ui. In case the user prefer to key in unit_discount INSTEAD of amount_disc, we can do the formula accordingly.	1) user key in unit_discount * just take what user key in 2) user key in amount_disc unit_discount = round_2dec(amount_disc / qty) 3) user key amount_net unit_discount = round_2dec (unit_price_std - amount_net / qty) 4)user key in amount_txn ⇒ amount_net = amount_txn - amount_tax_gst + amount_tax_wht unit_discount = unit_price_std - round_2dec(amount_txn - amount_tax_gst + amount_tax_wht) / qty unit_discount = unit_price_std - round_2dec(amount_txn / 1 + gst_percent - wht_percent) * qty 5) user key in unit_disc_by_uom unit_discount = round_2dec (unit_disc_by_uom / uom_to_base_ratio) 6) user key in unit_price_by_uom unit_discount = unit_disc_by_uom = unit_price - round_2dec(unit_price_by_uom/ uom_to_base_ratio)
qty_base	for basic item, user can key the qty, but for certain other document, like sales invoice, and if serialized is enabled, they will choose from the list of serial number and the qty will be recalculated	1) user key in qty_base qty_base = take from value that user key in 2) user key in uom_qty qty_base = uom_qty * uom_to_base_ratio
uom		BASEUOM, BOX , STRIPE etc…….

Generic Doc Line	remarks	formula
uom_to_base_ratio		1) This is copied from the UOM setting in Doc Item Maintenance 2) user key in unit_price unit_price_by_uom = unit_price * uom_to_base_ratio
unit_price_by_uom		1) This is copied from the Pricing Scheme by UOM in the Doc Item Maintenance 2) user key in unit_price unit_price_by_uom = unit_price * base_ratio 3) user key in amount_std? unit_price_by_uom = round_2dec(amount_std * uom_to_base_ratio / qty_base)

Generic Doc Line	remarks	formula
unit_disc_by_uom		1) user key in unit_disc_by_uom unit_disc_by_uom = whatever user key in 2) user key in unit_discount unit_disc_by_uom = unit_discount * uom_to_base_ratio 2) user key in amount_disc unit_disc_by_uom = round_2dec(amount_disc* uom_to_base_ratio / qty_base) 3) user key amount_net unit_disc_by_uom = round_2dec (unit_price_by_uom - amount_net * uom_to_base_ratio / qty) 4)user key in amount_txn ⇒ amount_net = amount_txn - amount_tax_gst + amount_tax_wht unit_disc_by_uom = unit_price_std - round_2dec (amount_txn - amount_tax_gst + amount_tax_wht) *uom_to_base_ratio / qty
qty_by_uom		1) user key in qty_base uom_qty = qty_base / uom_to_base_ratio 2) user key in uom_qty uom_qty = take from value that user key in

Generic Doc Line	remarks	formula
amount_std	qty x unit_price	There are 2 ways to calculate , either way will result in the same answer: 1) user key in or modify the unit_price_std amount_std = unit_price_std * qty_base 2) user key in or modify the unit_price_by_uom or qty_by_uom amount_std = unit_price_by_uom * qty_by_uom
amount_disc	If user key in unit_discount, then we will calculate this as qty x unit_discount if user can key in amount_disc manually (remember, this IS NOT unit discount) if user key in amount_net ⇒ calculated from amount_std - amount_net	1) user key in unit_discount amount_disc = unit_discount * qty 2) user key in amount_disc * just take what user key in 3) user key amount_net amount_disc = amount_std - amount_net 4)user key in amount_txn Tips: amount_net = amount_txn - amount_tax_gst + amount_tax_wht amount_disc = amount_std - (amount_txn - amount_tax_gst + amount_tax_wht) amount_disc = amount_std - (amount_txn / (1 + gst_percent -wht_percent)) 5) user key in unit_disc_by_uom amount_disc = unit_disc_by_uom * qty_by_uom

Generic Doc Line	remarks	formula
amount_net	amount_std - amount_disc	1) user key in unit_discount amount_net = (unit_price_std - unit_discount) * qty 2) user key in amount_disc amount_net = unit_price_std* qty - amount_disc 3) user key amount_net * just take what user key in 4) user key in amount_txn Tips: amount_tax_gst = gst_pct * amount_net …….. (4.1) amount_tax_wht = wht_pct * amount_net……. (4.2) amount_txn = amount_net + amount_tax_gst - amount_tax_wht …… (4.3) so…. substitute (4.1) and (4.2) into (4.3) amount_txn = amount_net + gst_pct * amount_net - wht_pct * amount_net amount_txn = amount_net (1+ gst_pct - wht_pct) amount_net = round_2dec(amount_txn / (1+ gst_pct - wht_pct)) … QED amount_tax_gst = amount_net * gst_pct 5) user key in unit_disc_by_uom amount_net = (unit_price_by_uom - unit_disc_by_uom) * qty_by_uom
gst_percent		

Generic Doc Line	remarks	formula
amount_tax_gst	amount_net x 6% gst as example	1) User key in amount_net amount_tax_gst = round_2dec (gst_percent * amount_net) 2) User key amount_txn amount_tax_gst = round_2dec(amount_txn / (1+ gst_pct - wht_pct)) * gst_percent
wht_percent		
amount_tax_wht	amount_net x 6% wht as example	amount_tax_wht = round_2dec (wht_percent * amount_net)
unit_price_txn	amount_txn / qty_base	1) user key in amount_txn unit_price_txn = amount_txn / quantity_base

Generic Doc Line	remarks	formula
amount_txn	amount_net + amount_tax_gst	1) user key in unit_discount amount_txn = round_2dec ((unit_price_std - unit_discount) * qty * (1+gst_pct - wht_pct)) OR amount_txn = amount_net + amount_tax_gst - amount_tax_wht 2) user key in amount_disc amount_net = unit_price_std* qty - amount_disc …… (2.1) amount_txn = amount_net + amount_tax_gst - amount_tax_wht ……. (2.2) substitute (2.1) into (2.2) amount_txn = unit_price_std* qty - amount_disc + amount_tax_gst - amount_tax_wht 3) user key amount_net amount_txn = amount_net + amount_tax_gst - amount_tax_wht ……. (3.1) amount_tax_gst = round_2dec (. gst_pct * amount_net)…….. (3.2) amount_tax_wht = round_2dec (wht_pct * amount_net.)…… (3.3) Subsitute (3.2) and (3.3) into (3.1) amount_txn = amount_net + gst_pct * amount_net - wht_pct * amount_net Then factorize the amount_net, you will get the following: amount_txn = amount_net * (1+ gst_pct - wht_pct) 4)user key in amount_txn * just take the value 5) user key in unit_price_txn amount_txn = unit_price_txn * qty_base

Create sales order

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/efd10d9cc76c9-internal-sales-order-insert-etl-ep

Update sales order

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/94aaf04d32918-internal-sales-order-update-etl-ep

Get all sales order

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/ab3844710a466-internal-sales-order-get-all-etl-ep

Get sales order by guid

https://bigledger.stoplight.io/docs/blg-akaun-api-docs-public/0c36501cddfbf-internal-sales-order-get-by-guid-etl-ep

Frequently Asked Question

PNS VS STL_MTHD

PNS(product and services) is txn_type which involve the transaction of product or service while STL_MTHD is the settlement method involved payment in any kind of form such as cash, debit card, or voucher. Once there is order created, that is considered PNS as it involve sales of the product. When the customer pay by cash, the receipt is issued and this is considered as STL_MTHD. To understand further, you may watch the video in the link https://drive.google.com/file/d/1rzXKlOXaXKT2ADwugYIrjJvxbQGYuKMY/view

Can sales order being edited multiple times?

Sales order can not be edited once the sales order is finalized. In order to know if the sales order is finalized, you may refer to column bl_fi_generic_doc_hdr.posting_status. If the column is 'FINAL', the data can not be edited except for remarks column.

Chapter 3. Industry Guide

3.1. Consumer Electronics Industry

3.1.1. Overview

3.1.2. Solutions

3.1.3. Stories

3.1.4. FAQs

3.2. Pharmacy Industry

3.2.1. Overview

3.2.2. Solutions

3.2.3. Stories

3.2.4. FAQs

3.3. Car Workshops

3.3.1. Overview

3.3.2. Solutions

3.3.3. Stories

3.3.4. FAQs

3.4. Retail Chainstores

3.4.1. Overview

3.4.2. Solutions

3.4.3. Stories

3.4.4. FAQs

3.5. Logistics Industry

3.5.1. Overview

3.5.2. Solutions

3.5.3. Stories

3.5.4. FAQs

3.6. Manufacturing Industry

3.6.1. Overview

3.6.2. Solutions

3.6.3. Stories

3.6.4. FAQs

3.7. Pet Industry

3.7.1. Overview

3.7.2. Solutions

3.7.3. Stories

3.7.4. 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.

4.1.1.1. Overview

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

4.1.1.2. Core Module Applets

The core module consiste of the following applets:

- Section A.20, “Tax Configuration Applet”
- Section A.15, “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.19, “Supplier Maintenance Applet”

4.1.1.3. Core Module Features and Functions

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

4.1.1.4. What’s New

4.1.1.5. Getting Started

4.1.1.6. Module Dependencies

4.1.2. Module Name - Unique Value Proposition

4.1.3. Core Module - Related Applets

- Section A.20, “Tax Configuration Applet”
- Section A.15, “Organization Applet”
- Section A.5, “Chart of Account Applet”

4.1.4. Module Name - Project Implementation Steps

4.1.4.1. 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.

4.1.4.2. 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

4.1.4.3. Project Kickstart Meeting

4.1.4.4. Weekly Meeting

4.1.4.5. Agile Method

4.1.4.6. Cashflow Projection

4.1.4.7. Human Resource Management

- Milestones and Rewards

4.1.4.8. Communication Management

4.1.4.9. Risk Management

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

4.1.4.10. UAT (User Acceptance Test)

4.1.4.11. Requirement Analysis

4.1.4.12. Project Goes Live

4.1.4.13. 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

4.2.1.1. Overview

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

4.2.1.2. Applets

4.2.1.3. Features and Functions

4.2.1.4. What’s New

4.2.1.5. Getting Started

4.2.1.6. Module Dependencies

4.2.2. Accounting - Unique Value Proposition

4.2.3. Accounting Module - Related Applets

4.2.4. Module Name - Project Implementation Steps

4.2.4.1. 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.

4.2.4.2. 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

4.2.4.3. Project Kickstart Meeting

4.2.4.4. Weekly Meeting

4.2.4.5. Agile Method

4.2.4.6. Cashflow Projection

4.2.4.7. Human Resource Management

- Milestones and Rewards

4.2.4.8. Communication Management

4.2.4.9. Risk Management

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

4.2.4.10. UAT (User Acceptance Test)

4.2.4.11. Requirement Analysis

4.2.4.12. Project Goes Live

4.2.4.13. 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

4.3.1.1. Overview

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

4.3.1.2. Applets

4.3.1.3. Features and Functions

4.3.1.4. What's New

4.3.1.5. Getting Started

4.3.1.6. 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

4.3.4.1. 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.

4.3.4.2. 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

4.3.4.3. Project Kickstart Meeting

4.3.4.4. Weekly Meeting

4.3.4.5. Agile Method

4.3.4.6. Cashflow Projection

4.3.4.7. Human Resource Management

- Milestones and Rewards

4.3.4.8. Communication Management

4.3.4.9. Risk Management

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

4.3.4.10. UAT (User Acceptance Test)

4.3.4.11. Requirement Analysis

4.3.4.12. Project Goes Live

4.3.4.13. 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

4.4.1.1. Overview

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

4.4.1.2. Applets

4.4.1.3. Features and Functions

4.4.1.4. What’s New

4.4.1.5. Getting Started

4.4.1.6. 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

4.4.4.1. 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.

4.4.4.2. 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

4.4.4.3. Project Kickstart Meeting

4.4.4.4. Weekly Meeting

4.4.4.5. Agile Method

4.4.4.6. Cashflow Projection

4.4.4.7. Human Resource Management

- Milestones and Rewards

4.4.4.8. Communication Management

4.4.4.9. Risk Management

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

4.4.4.10. UAT (User Acceptance Test)

4.4.4.11. Requirement Analysis

4.4.4.12. Project Goes Live

4.4.4.13. 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

4.5.1.1. Overview

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

4.5.1.2. Applets

4.5.1.3. Features and Functions

4.5.1.4. What's New

4.5.1.5. Getting Started

4.5.1.6. Module Dependencies

4.5.2. Manufacturing - Unique Value Proposition

4.5.3. Manufacturing - Related Applets

4.5.4. Manufacturing - Project Implementation Steps

4.5.4.1. 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.

4.5.4.2. 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

4.5.4.3. Project Kickstart Meeting

4.5.4.4. Weekly Meeting

4.5.4.5. Agile Method

4.5.4.6. Cashflow Projection

4.5.4.7. Human Resource Management

- Milestones and Rewards

4.5.4.8. Communication Management

4.5.4.9. Risk Management

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

4.5.4.10. UAT (User Acceptance Test)

4.5.4.11. Requirement Analysis

4.5.4.12. Project Goes Live

4.5.4.13. 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 othe other modules. Explaining that certain detail about

4.6.1.1. Membership Module Overview

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

4.6.1.2. Membership Module Applets

4.6.1.3. Membership Module Features and Functions

4.6.1.4. What's New

4.6.1.5. Getting Started

4.6.1.6. Module Dependencies

4.6.2. Membership - Unique Value Proposition

4.6.3. Membership - Related Applets

4.6.4. Membership - Project Implementation Steps

4.6.4.1. 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.

4.6.4.2. 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

4.6.4.3. Project Kickstart Meeting

4.6.4.4. Weekly Meeting

4.6.4.5. Agile Method

4.6.4.6. Cashflow Projection

4.6.4.7. Human Resource Management

- Milestones and Rewards

4.6.4.8. Communication Management

4.6.4.9. Risk Management

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

4.6.4.10. UAT (User Acceptance Test)

4.6.4.11. Requirement Analysis

4.6.4.12. Project Goes Live

4.6.4.13. 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

4.7.1.1. Overview

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

4.7.1.2. Applets

4.7.1.3. Features and Functions

4.7.1.4. What’s New

4.7.1.5. Getting Started

4.7.1.6. Module Dependencies

4.7.2. Referral - Unique Value Proposition

4.7.3. Referral Module - Related Applets

4.7.4. Module Name - Project Implementation Steps

4.7.4.1. 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.

4.7.4.2. 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

4.7.4.3. Project Kickstart Meeting

4.7.4.4. Weekly Meeting

4.7.4.5. Agile Method

4.7.4.6. Cashflow Projection

4.7.4.7. Human Resource Management

- Milestones and Rewards

4.7.4.8. Communication Management

4.7.4.9. Risk Management

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

4.7.4.10. UAT (User Acceptance Test)

4.7.4.11. Requirement Analysis

4.7.4.12. Project Goes Live

4.7.4.13. 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

4.8.1.1. 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

4.8.1.2. Applets

4.8.1.3. Features and Functions

4.8.1.4. What’s New

4.8.1.5. Getting Started

4.8.1.6. 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

4.8.4.1. 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.

4.8.4.2. 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

4.8.4.3. Project Kickstart Meeting

4.8.4.4. Weekly Meeting

4.8.4.5. Agile Method

4.8.4.6. Cashflow Projection

4.8.4.7. Human Resource Management

- Milestones and Rewards

4.8.4.8. Communication Management

4.8.4.9. Risk Management

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

4.8.4.10. UAT (User Acceptance Test)

4.8.4.11. Requirement Analysis

4.8.4.12. Project Goes Live

4.8.4.13. 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

4.9.1.1. Overview

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

4.9.1.2. Applets

4.9.1.3. Features and Functions

4.9.1.4. What's New

4.9.1.5. Getting Started

4.9.1.6. Module Dependencies

4.9.2. Contact Center - Unique Value Proposition

4.9.3. Contact Center - Related Applets

- Section A.21, "UCC Applet"

4.9.4. Contact Center - Project Implementation Steps

4.9.4.1. 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.

4.9.4.2. 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

4.9.4.3. Project Kickstart Meeting

4.9.4.4. Weekly Meeting

4.9.4.5. Agile Method

4.9.4.6. Cashflow Projection

4.9.4.7. Human Resource Management

- Milestones and Rewards

4.9.4.8. Communication Management

4.9.4.9. Risk Management

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

4.9.4.10. UAT (User Acceptance Test)

4.9.4.11. Requirement Analysis

4.9.4.12. Project Goes Live

4.9.4.13. 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

4.10.1.1. Overview

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

4.10.1.2. Applets

4.10.1.3. Features and Functions

4.10.1.4. What's New

4.10.1.5. Getting Started

4.10.1.6. 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

4.10.4.1. 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.

4.10.4.2. 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

4.10.4.3. Project Kickstart Meeting

4.10.4.4. Weekly Meeting

4.10.4.5. Agile Method

4.10.4.6. Cashflow Projection

4.10.4.7. Human Resource Management

- Milestones and Rewards

4.10.4.8. Communication Management

4.10.4.9. Risk Management

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

4.10.4.10. UAT (User Acceptance Test)

4.10.4.11. Requirement Analysis

4.10.4.12. Project Goes Live

4.10.4.13. 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 othe other modules. Explaining that certain detail about

4.11.1.1. Overview

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

4.11.1.2. Applets

4.11.1.3. Features and Functions

4.11.1.4. What's New

4.11.1.5. Getting Started

4.11.1.6. 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

4.11.4.1. 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.

4.11.4.2. 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

4.11.4.3. Project Kickstart Meeting

4.11.4.4. Weekly Meeting

4.11.4.5. Agile Method

4.11.4.6. Cashflow Projection

4.11.4.7. Human Resource Management

- Milestones and Rewards

4.11.4.8. Communication Management

4.11.4.9. Risk Management

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

4.11.4.10. UAT (User Acceptance Test)

4.11.4.11. Requirement Analysis

4.11.4.12. Project Goes Live

4.11.4.13. 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

4.12.1.1. Overview

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

4.12.1.2. Applets

4.12.1.3. Features and Functions

4.12.1.4. What’s New

4.12.1.5. Getting Started

4.12.1.6. 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

4.12.4.1. 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.

4.12.4.2. 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

4.12.4.3. Project Kickstart Meeting

4.12.4.4. Weekly Meeting

4.12.4.5. Agile Method

4.12.4.6. Cashflow Projection

4.12.4.7. Human Resource Management

- Milestones and Rewards

4.12.4.8. Communication Management

4.12.4.9. Risk Management

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

4.12.4.10. UAT (User Acceptance Test)

4.12.4.11. Requirement Analysis

4.12.4.12. Project Goes Live

4.12.4.13. 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.

4.13.1.1. 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 targetted 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.

4.13.1.2. CP Commerce Applets

- CP Commerce Admin Applet
- Media Library Applet
- Platform SysAdmin Applet

*

4.13.1.3. Features and Functions

4.13.1.4. What's New

4.13.1.5. Getting Started

- Please ensure that you have setup the pricing scheme in "Doc Item Maintenace 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")

4.13.1.6. 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

4.13.4.1. 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.

4.13.4.2. 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.

4.13.4.3. Project Kickstart Meeting

4.13.4.4. Weekly Meeting

4.13.4.5. Agile Method

4.13.4.6. Cashflow Projection

4.13.4.7. Human Resource Management

- Milestones and Rewards

4.13.4.8. Communication Management

4.13.4.9. Risk Management

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

4.13.4.10. UAT (User Acceptance Test)

4.13.4.11. Requirement Analysis

4.13.4.12. Project Goes Live

4.13.4.13. Post Mortem

4.13.5. Work Breakdown

4.13.5.1. URL and Domain Name

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

4.13.5.2. UI Design

- Both mobile and desktop

4.13.5.3. 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

4.13.5.4. 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

4.13.5.5. 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.

4.13.5.6. PGW Configurations

Please visit PGW Module for more information about the configuration of PGW Module.

4.13.5.7. Digital Signature

4.13.5.8. Post Registration Configuration

4.13.5.9. Third Party Authentication and Authorization

4.13.5.10. Google reCaptcha

4.13.5.11. Google Analytics

4.13.5.12. Review Settings

4.13.5.13. Menu List

4.13.5.14. Label List

4.13.5.15. Content Category

4.13.5.16. Static Posts

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

4.13.5.17. Restricted Access By Entity Accounts

4.13.5.18. Layout Instance

4.13.5.19. Configuring Language, Region and Country

4.13.5.20. Voucher Management

4.13.5.21. 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

4.14.1.1. Overview

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

4.14.1.2. Applets

4.14.1.3. Features and Functions

4.14.1.4. What’s New

4.14.1.5. Getting Started

4.14.1.6. 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

4.14.4.1. 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.

4.14.4.2. 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

4.14.4.3. Project Kickstart Meeting

4.14.4.4. Weekly Meeting

4.14.4.5. Agile Method

4.14.4.6. Cashflow Projection

4.14.4.7. Human Resource Management

- Milestones and Rewards

4.14.4.8. Communication Management

4.14.4.9. Risk Management

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

4.14.4.10. UAT (User Acceptance Test)

4.14.4.11. Requirement Analysis

4.14.4.12. Project Goes Live

4.14.4.13. Post Mortem

4.15. HR Module

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

4.16.1.1. Overview

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

4.16.1.2. Applets

4.16.1.3. Features and Functions

4.16.1.4. What's New

4.16.1.5. Getting Started

4.16.1.6. 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

4.16.4.1. Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
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    - Estimate how long it will take, what skills may be required to do this
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- Identify Critical Path

4.16.4.3. Project Kickstart Meeting

4.16.4.4. Weekly Meeting

4.16.4.5. Agile Method

4.16.4.6. Cashflow Projection

4.16.4.7. Human Resource Management

- Milestones and Rewards

4.16.4.8. Communication Management

4.16.4.9. Risk Management

- Identify third party dependency
- Identify backup plans

- Identify contingency plans

4.16.4.10. UAT (User Acceptance Test)

4.16.4.11. Requirement Analysis

4.16.4.12. Project Goes Live

4.16.4.13. Post Mortem

4.17. Warehouse Management Module

4.17.1. Introduction

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4.17.1.1. Overview

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

4.17.1.2. Applets

4.17.1.3. Features and Functions

4.17.1.4. What’s New

4.17.1.5. Getting Started

4.17.1.6. 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

4.17.4.1. Scope Management (End Results)

Begin with the end in mind

- This is where we define the end results and priorities
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  - Estimate how long it will take, what skills may be required to do this
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- Identify Critical Path

4.17.4.3. Project Kickstart Meeting

4.17.4.4. Weekly Meeting

4.17.4.5. Agile Method

4.17.4.6. Cashflow Projection

4.17.4.7. Human Resource Management

- Milestones and Rewards

4.17.4.8. Communication Management

4.17.4.9. Risk Management

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- Identify backup plans
- Identify contingency plans

4.17.4.10. UAT (User Acceptance Test)

4.17.4.11. Requirement Analysis

4.17.4.12. Project Goes Live

4.17.4.13. 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 othe other modules. Explaining that certain detail about

4.18.1.1. Overview

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

4.18.1.2. Applets

4.18.1.3. Features and Functions

4.18.1.4. What's New

4.18.1.5. Getting Started

4.18.1.6. 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

4.18.4.1. 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.
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4.18.4.2. Project Gantt Chart

- Defining Activities
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  - Which one first, which one next
- Estimated Resource Requirements for each activity
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  - Identify the activities dependency, and based on resource availability , developing a schedule

- Identify Critical Path

4.18.4.3. Project Kickstart Meeting

4.18.4.4. Weekly Meeting

4.18.4.5. Agile Method

4.18.4.6. Cashflow Projection

4.18.4.7. Human Resource Management

- Milestones and Rewards

4.18.4.8. Communication Management

4.18.4.9. Risk Management

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

4.18.4.10. UAT (User Acceptance Test)

4.18.4.11. Requirement Analysis

4.18.4.12. Project Goes Live

4.18.4.13. 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

4.19.1.1. PGW Overview

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

4.19.1.2. PGW Applets

The pgw module consiste of the following applets:

- Section A.14, “Merchant Admin Maintenance Applet”

4.19.1.3. Features and Functions

4.19.1.4. What’s New

4.19.1.5. Getting Started

4.19.1.6. 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

4.19.4.1. 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.

4.19.4.2. 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
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    - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

4.19.4.3. Project Kickstart Meeting

4.19.4.4. Weekly Meeting

4.19.4.5. Agile Method

4.19.4.6. Cashflow Projection

4.19.4.7. Human Resource Management

- Milestones and Rewards

4.19.4.8. Communication Management

4.19.4.9. Risk Management

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

4.19.4.10. UAT (User Acceptance Test)

4.19.4.11. Requirement Analysis

4.19.4.12. Project Goes Live

4.19.4.13. 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

4.20.1.1. Overview

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

4.20.1.2. Applets

4.20.1.3. Features and Functions

4.20.1.4. What’s New

4.20.1.5. Getting Started

4.20.1.6. Module Dependencies

4.20.2. Chatbot - Unique Value Proposition

4.20.3. Chatbot - Related Applets

4.20.4. Module Name - Project Implementation Steps

4.20.4.1. 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.

4.20.4.2. 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
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  - Identify the activities dependency, and based on resource availability , developing a schedule
- Identify Critical Path

4.20.4.3. Project Kickstart Meeting

4.20.4.4. Weekly Meeting

4.20.4.5. Agile Method

4.20.4.6. Cashflow Projection

4.20.4.7. Human Resource Management

- Milestones and Rewards

4.20.4.8. Communication Management

4.20.4.9. Risk Management

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

4.20.4.10. UAT (User Acceptance Test)

4.20.4.11. Requirement Analysis

4.20.4.12. Project Goes Live

4.20.4.13. Post Mortem

4.21. Process Automation Module

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

4.22.1.1. Overview

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

4.22.1.2. Applets

4.22.1.3. Features and Functions

4.22.1.4. What's New

4.22.1.5. Getting Started

4.22.1.6. Module Dependencies

4.22.2. Datalake - Unique Value Proposition

4.22.3. Datalake - Related Applets

4.22.4. Datalake - Project Implementation Steps

4.22.4.1. 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.

4.22.4.2. Project Gantt Chart

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

4.22.4.4. Weekly Meeting

4.22.4.5. Agile Method

4.22.4.6. Cashflow Projection

4.22.4.7. Human Resource Management

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4.22.4.8. Communication Management

4.22.4.9. Risk Management

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- Identify backup plans
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4.22.4.11. Requirement Analysis

4.22.4.12. Project Goes Live

4.22.4.13. 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

5.1.2.1. Business Requirements

5.1.2.2. Database Design

5.1.2.3. Mock Up and Design

5.1.2.4. 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

5.1.8.1. Handling changes in permission templates

5.1.8.2. Getting approval

5.1.9. Full Deletion of Applet

5.1.9.1. Removal of applet from Applet-Catalogs

5.1.9.2. Removal of applet from users who have installed the applet

5.1.9.3. Removal of the Javascript Bundle from s3

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

- This would include Permission Templates / Permission Sets etc.

5.1.9.5. Removal of all schedulers related to this applet

5.1.9.6. Removal of Audit Trails and other applet related tables

5.1.9.7. Removal of applet from the Applet Master List - Google Spreadsheet

5.1.9.8. 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.

5.1.10.1. UI Design QC

5.1.10.2. Documentation QC

5.1.10.3. Permissions QC

5.1.10.4. Features QC

5.1.10.5. Development / Staging Environment QC

5.1.10.6. Commercials QC

5.1.10.7. 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

5.1.15.1. Vendor Registration

5.1.15.2. Developer Registration

5.1.15.3. 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

This is the etl guide

5.3. Cloud Native Architecture

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

Our aspirations * To be the business operating systems

5.3.1. 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

5.3.2. 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

5.3.3. Integrations

spikes in loads

5.3.4. Infrastructure and Toolchain

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

5.3.5. Network Effect

5.3.6. Cloud Cost Savings

5.3.7. Artificial Intelligence

5.3.8. Human Resource

5.3.9. Journey

5.3.10. Challenges and Lessons

5.3.11. 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 list of applets

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.13. Introduction

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

A.13.1. 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.13.2. Menu 01 - e.g. Sales Orders Listing

A.13.3. Menu 02 - e.g. Line Items

A.13.4. Permission Settings

A.13.5. Personalization

A.13.6. 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.13.7. Pricing

A.13.8. Release Note

A.13.9. Roadmap

A.14. Merchant Admin Maintenance Applet

A.14.1. Introduction

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

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. Organization Applet

A.15.1. Introduction

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

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. Payment Channel Applet

A.16.1. Introduction

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

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 - e.g. Sales Orders Listing

A.16.4. Menu 02 - e.g. Line Items

A.16.5. Permission Settings

A.16.6. Personalization

A.16.7. 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.16.8. Pricing

A.16.9. Release Note

A.16.10. Roadmap

A.17. Stock Take V2 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.18. Roadmap

A.19. Supplier Maintenance 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. Tax Configuration Applet

A.20.1. Introduction

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

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

A.21. UCC Applet

A.21.1. Introduction

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

A.21.2. 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.21.3. Menu 01 - e.g. Sales Orders Listing

A.21.4. Menu 02 - e.g. Line Items

A.21.5. Permission Settings

A.21.6. Personalization

A.21.7. 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.21.8. Pricing

A.22. Release Note

A.22.1. Roadmap

A.23. URL Shortening Applet

A.23.1. 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/nVNNUQ9keb/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.23.2. 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.23.3. Menu 01 - e.g. Sales Orders Listing

A.23.4. Menu 02 - e.g. Line Items

A.23.5. Permission Settings

A.23.6. Personalization

A.23.7. 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.23.8. Pricing

A.23.9. Release Note

A.23.10. Roadmap