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

- Epub Format
- Single File HTML
- PDF Format

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Chapter 1. Guide by User Types

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

1.1. General 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/

1.1.1. 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.

1.1.2. 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>.aka un.net</something>	This is the life environment, used by real businesses in their day to day operations.
Staging	https://akaun.com	https:// <something>.aka un.app</something>	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>.aka un.xyz</something>	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.

1.1.3. 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"

1.2. Project Implementors

Implementation of BigLedger projects requires a deep understanding of the Akaun platform features and functions. Depends on which module the business

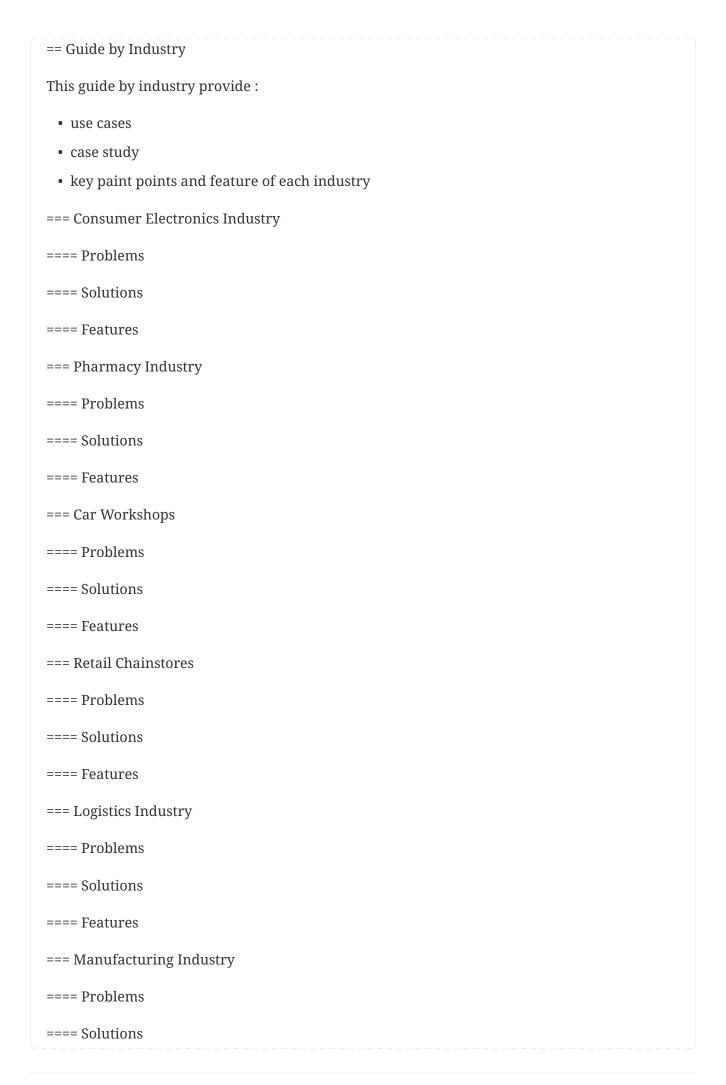
some sections here		
==== Section 2		

=== Tenant Owners	
Platform Guide for Tenant Owners	
==== Section 1	
==== Section 2	

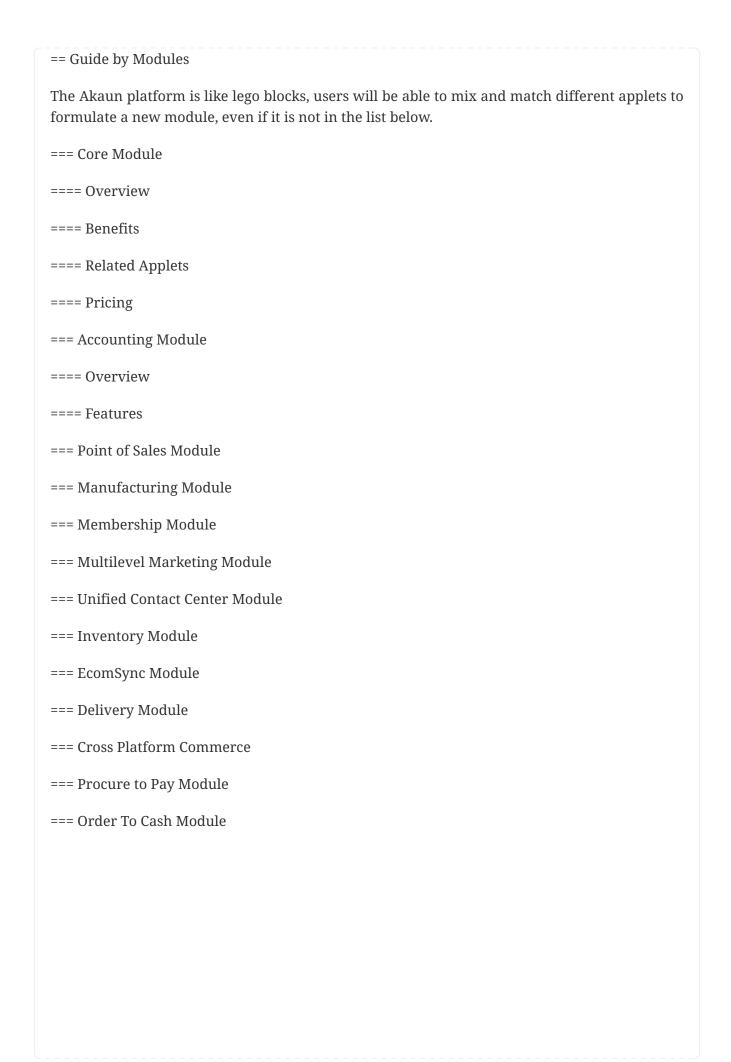
=== Applet Developers	
Guid for applet Developers	
==== Signing up your bigledger account	

=== Reseller Guide	
Guide for resellers	
==== Section 1	
==== Section 2	

=== System Integrators	
Guide for system integrators	
==== Section 1	
some sections here	
==== Section 2	



==== Features	
=== Pet Industry	
==== Problems	
==== Solutions	
==== Features	



== Applet Directory
=== Applet Listing

== 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 === Background • Outdated JBoss application server, EJB 1.0 / 2.0 Servers idling · Hackers attack • Certain minimum costs to power up a tenant · Self service • Internal employee users vs customers + suppliers • Integration pains === Motivation Platform Business Model Multiple offerings → as middleware - backend as a service → as applets → as SAAS → as communication hub Cross Platform development Scalability Flexibility Growth Composable Enterprise Utility based billing ==== Integrations spikes in loads ==== Infrastructure and Toolchain Various tools ready to be used out of the box... example: OCR, Lambda, RDS, NoSQL, API Gateway

==== Network Effect

==== Cloud Cost Savings

==== Artificial Intelligence

- ==== Human Resource
- === Journey
- === Challenges and Lessons
- === Technical Considerations
 - · managing complexities
 - Sharing about our journey to transform from monolith architecture to cloud native architecture
 - Sharing about the problems and challenges implementing stateless applications
 - Sharing about the implementation of Micro-Frontend Architecture
 - Sharing about the implementation of Web Socket using API Gateway and DynamoDB
 - Sharing about challenges of securing the API, permissions / configurations etc
 - Sharing about the challenges of multi-tenant environments
 - Sharing about the design of composable enterprise architecture
 - Sharing about the tricky part of networked tenants
- == Documentation Authoring
- === Authoring this Documentation

This documentation is written using asciidoc, please take a few minutes to go through the following guide:

- https://docs.asciidoctor.org/asciidoctor/latest/
- https://docs.asciidoctor.org/asciidoc/latest/

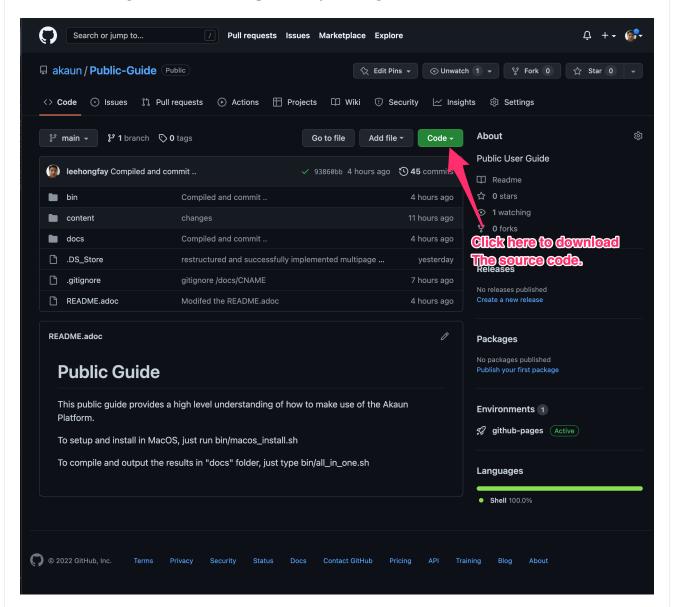
Some useful videos:

- https://www.youtube.com/watch?v=KbmpBZO4EoY
- https://www.youtube.com/watch?v=GL1SEYOhEiQ
- https://www.youtube.com/watch?v=wca5m7JpS_U
- === Setup and Configurations
- ==== Github Repository
 - · Github User Account

In order to author this documentation, you will need to have a https://github.com account. As an employee of Wavelet.net or BigLedger.com, you will be using the <username>@wavelet.net to register for the github user.

You can request the HR department to grant you access to the hr@wavelet.net to grant you the access to Github Akaun organization (https://github.com/akaun).

• Downloading the Github Desktop Client by clicking on the button below:



Please visit https://desktop.github.com/ to download the Github Desktop.

• Accessing the repository

After you have downloaded the github, please clone the https://github.com/akaun/Public-Guide to your local computer.

==== Asciidoctor Toolchain

Depends on the operating systems you are using, please follow the instructions below accordingly:

==== Installing Asciidoctor

- Linux
 - https://docs.asciidoctor.org/asciidoctor/latest/install/linux-packaging/
- Windows
 - https://docs.asciidoctor.org/asciidoctor/latest/install/windows/

- Mac
 - https://asciidoctor.org/docs/install-asciidoctor-macos/
 - https://docs.asciidoctor.org/asciidoctor/latest/install/macos/

==== Installing Epub3 Converter

Please click on the link below for detailed instructions:

https://docs.asciidoctor.org/epub3-converter/latest/

==== Installing PDF Converter

https://asciidoctor.org/docs/asciidoctor-pdf/#install-the-published-gem

==== Installing Multipage HTML Converter

https://github.com/owenh000/asciidoctor-multipage

- ==== Visual Studio Code
 - Downloading Visual Studio Code

Please visit the following page to download. https://code.visualstudio.com/download

After you have installed the Visual Studio Code, please install the following extensions:

- AsciiDoc
- Github Pull Requests and Issues
- vscode-pdf

The next step is to open the folder where you cloned the https://github.com/akaun/Public-Guide repository using the Visual Studio Code

=== Understanding the Directory Structure

Folder Name	Description
bin	This folder contains shell scripts that you need to install and setup. You will also see a file called publish.sh, and this is the file that you would execute to compile the asciidoc into various file formats, and save them in the "docs" folder. You shouldn't be editing any files in this folder.
build	This is a temporary folder that gets deleted and re-created every time we "compile" the documentation. You shouldn't need to mess with files in this folder.

content	This is where you will be contributing by editing the files in this folder.
docs	You shouldn't need to edit any files in this folder. But you are welcome to open the files in this folder to check the "compiled output" of your changes, to ensure they are correct before pushing your code to the github, and request for your branch to be merged with the "main" branch in github.

=== Committing Changes To The Repository

Before you make any changes, it is absolutely important that you **checkout** the local repository into a different branch, and the naming convention that we use would be:

YYYY-<email_address>

You may find the following resource useful:

- https://code.visualstudio.com/docs/editor/versioncontrol# :~:text=You%20can%20create%20and%20checkout,tags%20in%20the%20current%20repository.
- https://www.youtube.com/watch?v=X9-iaXfKY5g
- https://www.youtube.com/watch?v=H5BLEPhqxe8
- https://www.jasongaylord.com/blog/2020/07/08/create-delete-branches-using-visual-studio-code

Once you have made the changes you want, remember to run the command from the "Public-Guide" directory:

bin/publish.sh

The above shell script will clean up the "docs" and "build" folders, and then compile all the adoc files into the intermediate "build" folder and subsequently publish the final output into the "docs" folder.

To view the final output, you can open the "docs" folder and view the content in the folder by opening one of the following files:

- index.html (This is the multipage html output)
- blg_handbook.pub
- blg_handbook.pdf
- blg_handbook.html

Once you have completed your editing, the next step is to create a **pull request**. Refer to the following for more information:

 https://docs.github.com/en/pull-requests/collaborating-with-pull-requests/getting-started/ about-collaborative-development-models 	
• https://docs.github.com/en/pull-requests	
 https://www.youtube.com/watch?v=oa1wXWeH1IQ 	
Congratulations !!	