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Issue Event Ticket: User Guide

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Overview

Issue Event Ticket project explains to create currency token and create tickets for an event, buy tickets from event organizer which would be consider as primary Market and sell the same ticket in secondary Market to gain huge profit than the primary market.

Ticket fraud at festivals is costing fans millions of hard-earned dollars in losses, and in today's market, digital tickets have become an integral part of any event's ticket sales. So integral in fact, that two-thirds of tickets sold online are digital, a comparatively large figure to other online industries, and one that attests to how rapidly the market has

matured. And it's growing. Riskified have found that ticket fraud at festivals is more common than at any other event, with festival passes running four times more likely to be bought using fraudulent means than tickets to sporting events due to their appeal with younger, more tech-savvy crowds. But protecting yourself is easier than you think. By being aware of these key points diminish risk of being affected by ticket fraud at festivals, as we explain as we break down Riskfield's excellent report below.

This demo executes the process of an issue Event Ticket to view/Analyze ticket frauds happening in secondary market..

This Guide

This User Guide takes you step-by-step through creating currency Token, creating Tickets for an festival event, buy and sell in primary Market and Secondary Market processing, executing a successful Issue Event Ticket Application.

Note: A full production implementation would include additional features, handle errors and exceptions, and incorporate appropriate security controls.

Workflow

Roles and Responsibilities

Tasks are performed by following roles in the workflow.

Role	Responsibility
NTT_Data(Organizer)	Creating Currency Token
	Creating Tickets for a festival Event
	Accepting Ticket requests
	Monitoring Primary and secondary Market
Patankar(Pprimary Market)	Request festival event Ticket to Organizer
	Sell festival event Ticket to some other party in secondary Market
Gnyan(Secondary Market)	Buy Ticket from Primary Market not more than 110% than original price of the Ticket.

Steps The Issue Event Ticket Process workflow involves these steps:

1. **Currency Token** : As the organizer create Currency Token.

2. **Organizer Wallet**: As the Organizer, can view the created currency token in order to create Tickets.

3. **Ticket Request:** A Buyer can Request Ticket to organizer and organizer can accept the request to sell ticket to buyer(in this case patankar).

4. **Primary Market**: As the Organizer and Buyer(Patankar) can view Primary Market.

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5. **Second Market**: As the Organiser,Buyer(In this case Patankar) and Buyer1(In this case Gnyan) can view Primary Market and Secondary Market

All of these steps can be executed through the demo prototype user interface but could be fully automated in a production implementation of the application.

Getting Started
Accessing the Demo

Follow the instructions in the Read Me provided with the demo code to install and run the demo.

Choosing and Changing Roles

When you launch the prototype, you will see the Log-In screen.To use this screen:

1. To log in as a username, choose the role from the drop-down list. The username appears at the top of their dashboard.To change to a different user:

○ Choose Click on User symbol as shown below the current username on any screen.
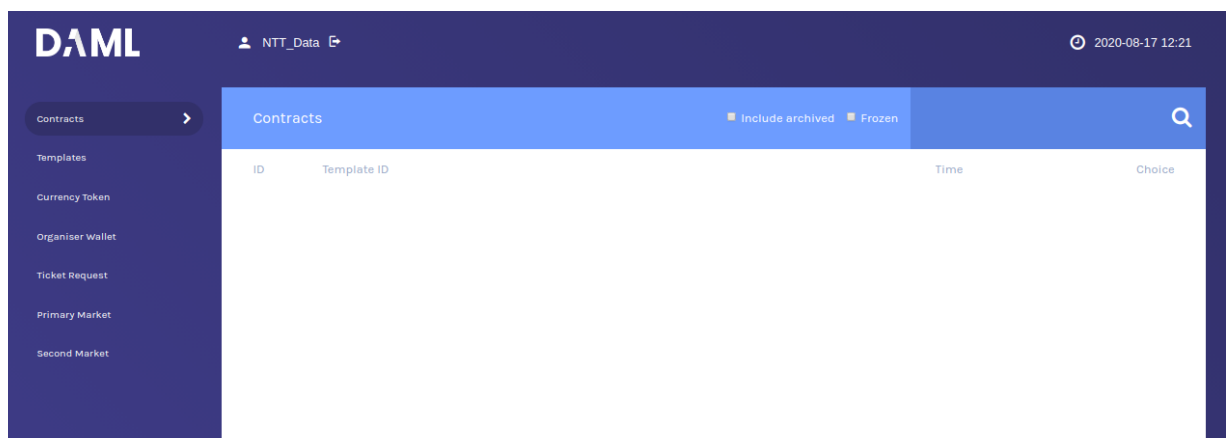
○ Log in as the new user.

❶ Creating Currency Token

The workflow begins with creating currency Token.

To Create a Currency Token:

1. Log in as a NTT_Data User.

The NTT_Data list screen will be displayed.
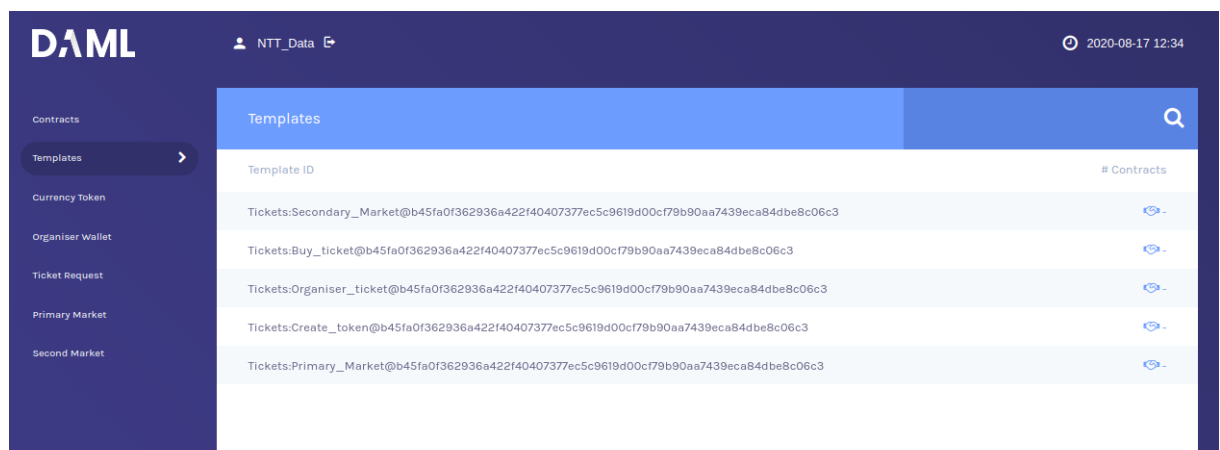
- Click on Templates Tab, Lists all available templates.
- Click on Tickets:Create_Token@.. template and fill the template as shown in below screen snap and Submit.

- The symbol ✓at top right prior to timestamp indicates the Transaction has been completed successfully and Smart Contract for create token has been created, On the left-hand side click **Currency Token** to view created currency token contract.

- Now click on the contract to view details of token currency and click on **Create_Tickets** button at top right to the contract and provide **total_tickets** as 1000(as per requirement) and submit.

- The symbol ✓ at top right prior to timestamp indicates the Transaction has been completed successfully and Ticket Smart Contract has been created, On the left-hand side click **Organizer Wallet** to view Tickets created.

② Buy Tickets from the Organizer

The User Patankar now request tickets for an event to buy from Organizer.

1. Switch user NTT_Data
2. Choose Patankar from drop down, on left-hand side goto templates and click Tickets: Buy_ticket@.. and submit template with the fields as shown in below screen snap.

3. Now Choose NTT_Data from drop down, on left-hand side goto **Ticket Request** tab to view ticket request from Patankar, can find details like who is organizer, seller, receiver, currency token used and quantity of tickets.
4. Goto **Organizer Wallet** Tab and copy contract Id as NTT_Data as organizer going to sell tickets from his wallet and then goto **Ticket Request** tab click on contract and click **Accept_request** button then ask you to provide agreeCid, paste contact Id here and submit to sell requested quantity of tickets to patankar and this transaction would be consider as primary market.
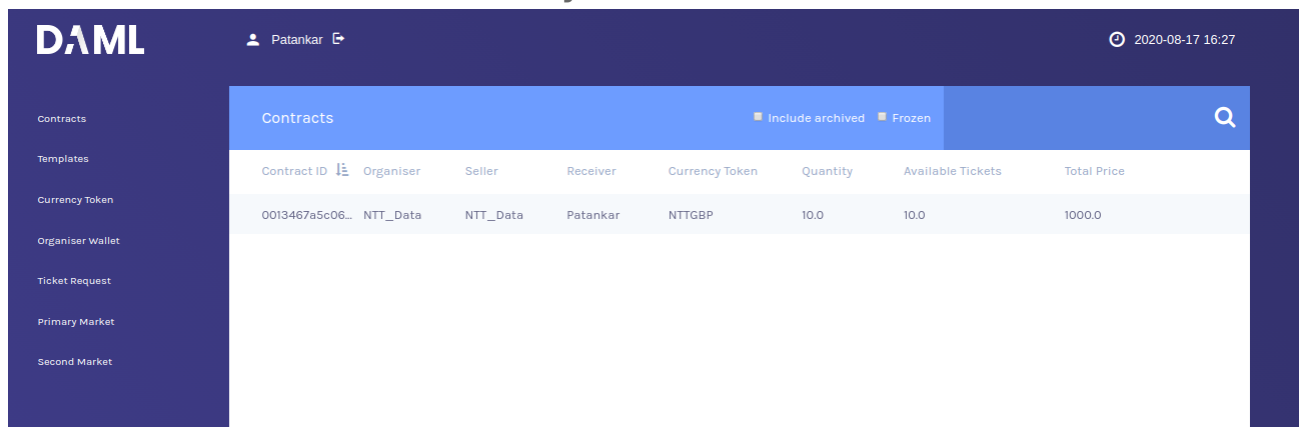

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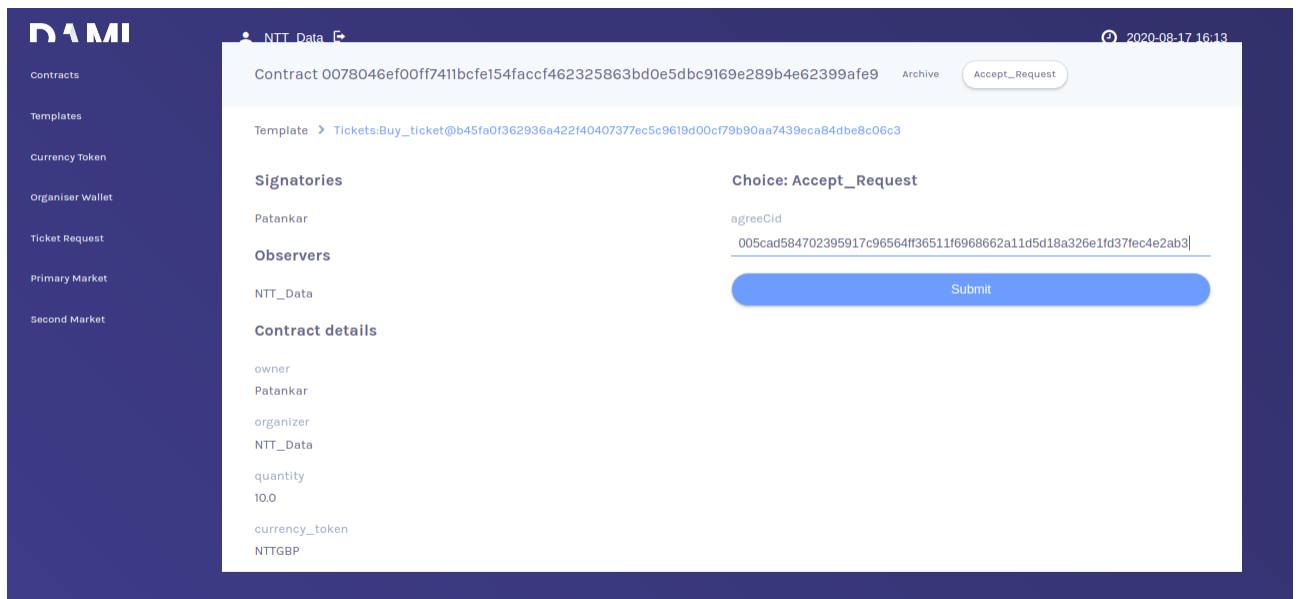
5. Now left-hand side goto **Primary Market** tab to view how many tickets and for how much price tickets have been sold, and goto **organizer wallet** to view updated values of available tickets count after tickets sold in primary market.
6. Now switch to **Patankar** and on left-hand side goto **Primary Market** to view ticket bought from organizer(NTT_Data).
7. You can check that this Primary ticket contract can only view by NTT_Data and Patankar, no info to User Gnyan.

3 Selling tickets from Primary Market to Second Market

Once Patankar bought tickets from NTT_Data could be considered as primary Market and Patankar can be able to sell his tickets to some other party in our use-case gnyan to not more than the price 110% than the previous sale price.

1. Log in as Patankar.
2. On Left-hand-side click **Primary Market** button.

and then click **Sell_Ticket** button. Then fill in the details as shown below and submit the transaction.

Note: Second_price value should not exceed 110% than total_ticket_price mentioned in the same contract, if not then contract will not be created, hence transaction failed.
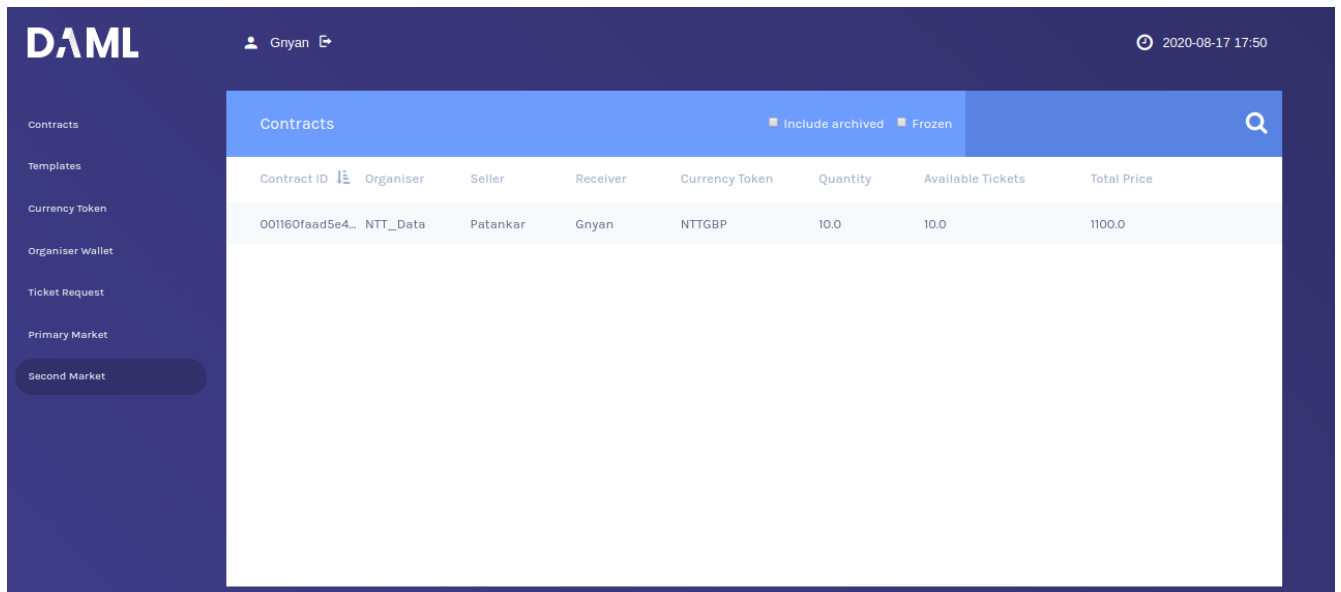
On the left-hand side click on **Second Market** tab to view newly created ticket contract with second price and this transaction would be considered as second market. And Choose User as Gnyan and look the same ticket contract on the left-hand side under Second Market tab.

Patankar user view screen:

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Gnyan User View screen:
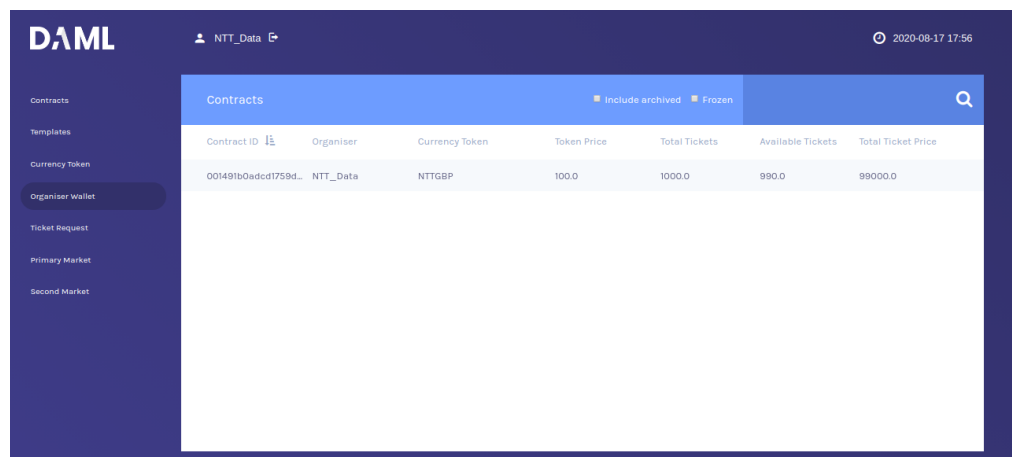
④ Viewing Primary Market and Secondary Market

To view the primary market and secondary Market:

1. Choose NTT_Data user from drop down, In this application we add feature to organizer(in this case NTT_Data) monitor own wallet, primary market and second market.

Organizer wallet screen:

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Primary Market Screen:

Secondary Market Screen:

Note: After successful transaction of 2 or more tickets, click on Include Archive check box prior to search box in order to view historic transactions of primary and second market at respective tabs.

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2. Choose Patankar as user from drop down and on the left-hand side click primary market to view updated available tickets and total ticket price after sold tickets into secondary Market. And after 2 or more transactions click include archive check box to view archived contracts.

3. Choose Gnyan as user from drop down and on the left-hand side click Secondary Market to view tickets info which bought from primary Market, And after 2 or more transactions click include archive check box to view archived contracts.

Additional Exploration

You can explore some feature as follows

demo Some options:

- As we can implement payment gateway option where patankar and gnyan receives requested tickets from primary and secondary market respectively.

Bear in mind that this demo does not handle exceptions or errors in the way that a production build would do.