

Problem Statement Title: Blockchain based Loyalty and Rewards Program using Fungible Tokens.

Team Name: 686157-U12C5Z9I(RUNTIME-TERROR)

### Team Member Details

Team Name	686157-U12C5Z9I [Runtime-Terror]				
Institute- Name/Names	Graphic Era Hill University				
Team Members >	1 (Leader)	2	3		
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Batch	2024	2024	2024		

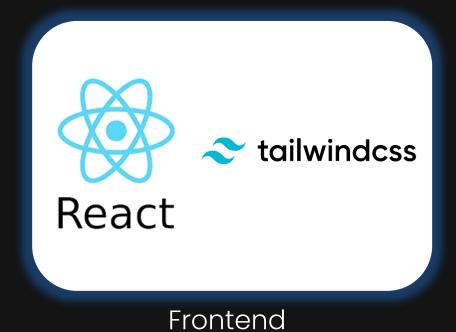
### Brief

- We have used the term "Flipkart" for the Ecommerce Platform for which the loyalty program is being developed.
- We have created a loyalty platform in the form of a web application that can be easily integrated with Flipkart's Applications.
- The loyalty and rewards platform is called "Rewards Club by Flipkart".
- The fungible token is called <u>Club Coin</u> which is analogous to the the <u>Super Coin</u> on the Flipkart application. The Club Coin works more or less the way how Super Coins work.



## Technology Stack Used













Introducing

# REWARDS-CLUB by Flipkart

Rewarding Loyalty, Building Community



# RC Explained

What you need to know

- Welcome to the world of Rewards Club, an innovative loyalty program designed to celebrate our valued customers.
- At Rewards Club, we believe that loyalty deserves to be acknowledged and rewarded, and that's exactly what we're here to do
- Our main objective is to create a thriving community of loyal customers who feel appreciated and engaged with every interaction.
- Through our loyalty program, we're forging stronger connections and building a bridge of mutual trust between us and our customers.
- Whether you're a frequent shopper or a dedicated supporter, Rewards Club is your gateway to a world where loyalty is not only recognized but also celebrated.

### Easy Access for Customers

Accessibility made simple: No blockchain or web3 knowledge required.

Two user-friendly registration methods: Email-based paper wallet creation or seamless Meta-mask integration

## Email-Based Registration

- Effortless Entry: Join without blockchain expertise.
- Email Initiation: Register using your email.
- Instant Access: Verified users get a secure paper wallet.
- **Simplified Engagement**: Easy interaction, secure rewards

## Meta-mask Integration

- Effortless Access: Existing Metamask users connect instantly.
- **Simple:** Interaction Tap "Connect Wallet" for immediate rewards.
- **User Control:** Private keys secure in Meta-mask.
- Engagement Boost: Streamlined access, enhanced loyalty.

### Gasless Transactions

- Say goodbye to transaction fee worries within Rewards Club.
- Meta-transactions redefine user interaction. By abstracting gas fees and removing the need for native tokens, users can initiate transactions seamlessly without the constraints of token holdings. Off-chain transactions are submitted to a Transaction Relayer Contract, fortified by OpenZeppelin's secure smart contract components, which orchestrates on-chain execution.

- Transactions on our platform are designed to be smooth, streamlined, and user-centric.
- With gasless transactions, you can focus on enjoying rewards and experiences without the hassle of additional charges.
- Embrace a new era of hassle-free interactions within the world of Rewards Club.

## The FT Web3 Foundation

1	2	3	4	5
Foundation of Transactions:	Simplified Exchanges: Ensuring Efficiency	Swift and Secure: Seamless Transactions	Transparency and Trust: Every Transaction Recorded	User Benefits:
<ul> <li>FTs represent standardized digital assets, each carrying equal value.</li> <li>These tokens form the bedrock of secure and efficient exchanges within our ecosystem.</li> </ul>	<ul> <li>FTs streamline exchanges through uniform valuation.</li> <li>Users experience hassle-free one-to-one value swaps, making transactions seamless.</li> </ul>	<ul> <li>FTs enable instant redemptions and settlements.</li> <li>The inherent security of blockchain ensures each transaction's integrity.</li> </ul>	<ul> <li>Blockchain records every FT transaction, fostering transparency.</li> <li>Users can trace their engagements, enhancing confidence in the loyalty ecosystem.</li> </ul>	<ul> <li>FTs grant         immediate         rewards and         enable swift         settlements.</li> <li>This accelerates         engagement and         user         satisfaction,         driving loyalty.</li> </ul>

## Reward For Purchase Mechanism

### What If Every Purchase Earned You Tokens?

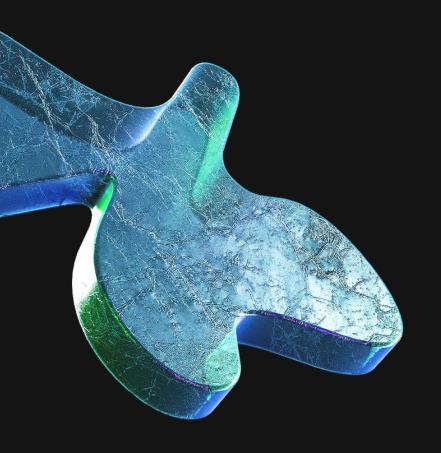
- Introducing the ingenious "Reward For Purchase" mechanism

   where every transaction becomes a step towards greater
   rewards.
- With this feature, every purchase carries significance as we recognize and value your loyalty.
- For our esteemed Plus users, a transaction of Rs. 100 translates to 4 loyalty tokens, a testament to our appreciation for your support.
- Our Regular customers also enjoy the benefits, receiving 2 loyalty tokens for every Rs. 100 spent.
- In the world of Rewards Club, your every purchase has the potential to unlock a realm of rewarding possibilities.

# Diverse Reward Platforms



### Earn tokens through various avenues:



- Referring friends: By referring friends, you not only share the experience but also earn tokens for each successful referral.
- ✓ Sharing on social media: Your network matters. Sharing our platform on social media earns you tokens as a thank you for spreading the word.
- ✓ Participating in platform games: Your engagement is valued. Participate in our entertaining platform games and unlock tokens while having fun.

## Token Utilization

Transforming Loyalty into Value

### Representation

 Tokens within Rewards Club are more than mere numbers — they're a representation of your loyalty and engagement

### Significance

 Our loyalty tokens hold substantial value, reflecting the significance of your patronage.

#### Reward Access

 Redeeming these tokens opens the door to a world of exciting rewards and exclusive offers available on our platform.

### Partner Collaboration

- At Rewards Club, we've expanded our horizons by partnering with esteemed brands like Puma and Nike.
- These collaborations result in tailored offers that resonate with our users' preferences and desires.
- Our partner offers are meticulously crafted, incorporating key details such as product names, descriptions, values, prices, quantities, and more.
- With these collaborations, we aim to enhance your experience by bringing you exclusive deals from brands you know and trust.
- Partner Collaboration is where loyalty meets top-tier brands, resulting in a synergy that's both rewarding and exciting.



### User Roles and Functions

- In the ecosystem of Rewards Club, every role has a distinct purpose and contribution.
- <u>Admins</u>: The backbone of the platform. Admins manage and oversee various aspects, including token minting, ensuring a smooth rewards process.
- <u>Partners</u>: Partners play a pivotal role in enhancing your experience. They curate offers that align with your preferences, creating an array of choices.
- <u>Customers:</u> The heart of our platform. Customers explore offers, make purchases, and actively engage in the rewarding journey.
- Each role collaborates harmoniously to create an ecosystem where loyalty is celebrated and engagement is enriched.





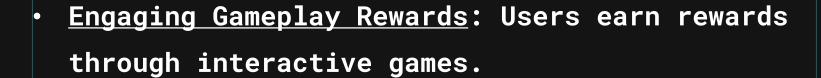
## Token Expiry

Transforming Loyalty into Value

- Tokens within Rewards Club come with a thoughtfully designed lifespan.
- Each token is issued with a fixed expiry date to ensure their circulation remains relevant and dynamic.
- Rest assured, the process is automated: Expired tokens are seamlessly and automatically returned to the platform owner's account.
- This mechanism reflects our commitment to maintaining the vitality and integrity of our rewards ecosystem.
- Token expiry, managed with precision, is yet another way we optimize your loyalty experience within Rewards Club.

# FUTURE SCOPE

What you need to know



<u>Innovative Experience:</u> Gamification enhances user journey and loyalty.

 Motivated Participation: Gamified interactions boost engagement.

Faster Transaction Time: Streamlined blockchain ensures swift rewards.

 Transparent Tracking: Blockchain ensures reliable reward monitoring.



## THANKYOU