LITEPAPER

GEMGUARDIAN

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GemGuardian - Litepaper

Introduction:
GemGuardians is a new NFT-based card game that runs on the Binance Smart Contract (BSC) network. Conceptualized and created by the GemGuardian Games development team based in the Philippines, the game is set to make a quantum leap in the DeFi gaming community.

While the game centers around an arid theme of a head-to-head quest for supremacy over in-game advantages and resources, the fun, thrill, and excitement of battling against other guardians to acquire a bunch of surprising NFTs, rewards, and other resources never stales.

The chief mission is to increase Guardian's aura, experience, attack, and defense to meliorate their dragons as well. The more hard-bitten and leveled the guardian and the dragon, the higher chances to obtain more Gpay rewards.

It's a groundbreaking, strategic, play-to-earn gaming ecosystem that is seamlessly capable of facilitating blockchain development and evolving the basics of the DeFi economy while buttressing the game's staking-and-earning feature in its most pleasurable way.

Vision:
GemGuardian's development team envisions establishing a true play-to-earn ecosystem to facilitate blockchain development and to evolve the DeFi industry fundamentals to make staking and earning more fun.

Purpose:
The purpose of this whitepaper is to avoid too much technicality in explaining the mechanics of the game. This is intended to simply explain the gaming aspects of GemGuardian, including gameplay details, information on NFTs, and the whole game's economy. In brief, this whitepaper serves as a comprehensive guide of the game's mechanics and how it adds a fun flavor to DeFi gaming.

Utility Token:

1. GemG: GemG: GemG governance token utility include governance rights, staking, and payment for Lootbox.

2. Gpay: Gpay is equivalence to cash or medium of exchange in an economy. Utility include in game rewards and payment for Lootbox.

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Requirements:

The minimum requirement to start the game will be the purchasing of the first 2 first-level Lootboxes. Each Lootbox will cost 2 GEMG tokens and 300 Gpay tokens.

Each time a Lootbox is given, an NFT will appear where there is a possibility that it could be a Guardian or Dragon. The minimum required team to start battles will be at least 1 Guardian and 1 Dragon.

Gameplay:
A) 5 Elemental Guardian and Dragon Styles:

| 1) Earth Gem | 2) Ice Gem | 3) Wood Gem | 4) Fire Gem | 5) Metal Gem |

B) Elements and Natural Dominance:

Elemental styles have natural dominant elements that increase the chances of winning the battles by 20%. For weaker elements, this will be decreased by 20%.

Steel > Wood > Ice > Fire > Earth> Steel

Glossary:

Guardian: NFT character is required to play the game.

Gem/Dragon: Is the attack and defense mechanism of the Guardian, similar to his weapon.

Element: The natural dominance of the Guardian or Character is present and can be decisive to the victory of the battle.

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Aura: Level up Guardians by acquiring experience through constant battling against other Guardians.

Game Reserves Allocation: designated to support GEMG and Gpay economy and price stability.

XP: Gaining experience through steady battles will improve Dragons and the winning chances of Guardians.

Armor: Defense of the dragon

Attack: Destructive powers of the dragon

Loot Box: is a mystery box that players can buy to get a chance to obtain super rare NFTs, items, and characters that are not available within regular gameplay.

P2P: the player-to-player battle is the opportunity for wagers could be made among players.

Staking Pool: a feature wherein players are allowed to lock up Gpay rewards and earn with high interest.

Beta: Initial version of the game where bugs and glitches may be found and is under constant development.

Alpha: Full and final version of the game, where all developments have been tested without running bugs, glitches, and other unsettling issues.

Life-force: Battle stamina of the Guardian, with its fullness to 1440. Each battle costs 240 life force. A point of life force is replenished every after a minute.

The table below shows Guardians' levels:

100-999 Aura	Gem Seeker	Reward at 1x
1000-2999 Aura	Saint Orc	Reward at 1.3x
3000-4999 Aura	Demi Orc	Reward at 1.5
5000-8999 Aura	Dragon Tamer	Reward at 1.65x
9000-12000 Aura	Goliath	Reward at 1.75x
12000-15000 Aura	Ormoc	Reward at 2x

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The table below shows Dragons' levels:

100-999 Aura	Dragonette	Armor and Attack 1x
1000-2999 Aura	Ground	Armor and Attack 1.3x
3000-4999 Aura	Sky, Armor	Armor and Attack 1.5x
5000-8999 Aura	Destroyer	Armor and Attack 1.7x
9000-12000 Aura	Dominator	Armor and Attack 1.8x
12000-15000 Aura	Divinity	Armor and Attack 2x

All aura and XP are gained after defeating an opponent. 2% of the enemies' aura and XP will be gained every victory.

Loot Box: a surprise, mystery box where NFT character of either Guardian and Dragons are drawn from the box by GEMG and Gpay tokens. There are multiple levels where each time a player draws the next level will cost more GEMG and Gpay tokens. However, the chances of drawing super rare NFTs increase dramatically.

Lootbox for acquiring either a Guardian or a Dragon:

1. Loot Box	2 GemG + 300 Gpay	1% - Rare Chance
2. Loot Box	2 GemG + 600 Gpay	2% - Rare Chance
3. Loot Box	2 GemG + 900 Gpay	3% - Rare Chance
4. Loot Box	2 GemG + 1500 Gpay	4% - Rare Chance
5. Loot Box	2 GemG + 2400 Gpay	5% - Rare Chance
6. Loot Box	4 GemG + 3900 Gpay	6% - Rare Chance
7. Loot Box	4 GemG + 6300 Gpay	7% - Rare Chance
8. Loot Box or More	4 GemG + 10000 Gpay	8% - Rare Chance

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C) Gameplay Process: How to Start the game

1. Swap BNB to GEMG and Gpay on pancake swap. Please leave .01BNB to cover all the transaction fees.

2. Go to the GemGuardian app and log in with the QR code.

3. 1 Guardian and 1 Dragon will be required to start. These characters can be obtained by purchasing and drawing them from Lootboxes.

4. Go to Journey Mode to start first the battle by clicking the desired Guardian and Dragon in your arsenal, then click start battle and confirm the transaction on your wallet.

5. When the battle starts, AI will generate 4 opponents. Battle simulations and results are subject to a formula that depends on many factors: Guardian's element and aura, the roll of the dice, and XP and element of the Dragon. Therefore, the game requires wise choices and well-thought strategies to win a single battle.

6. Click on Start Battle Simulation. Afterwhich, confirm the transaction and the battle will be in progress. After the transaction is done, the battle simulation's result will come out. If the player wins, both the Guardian and the Dragon will gain XP, and the player's account will obtain Gpay token as a reward. No rewards will be given if the player loses the battle simulation.

Battle Outcome Probability Calculations:

Each side will roll single dice during the battle. The number generated by the dice will be multiplied by the Guardian's and Dragon's power, then there are chances to either be multiplied or decreased depending on their natural element.

Example: A player using Ice Guardian, possessing 120 aura, with Ice Dragon versus Fire Guardian, 150 aura, with Fire Dragon. Both players rolled 5, the formula or computation will be:

Ice: 120 x 5 x + (120 x 5) x.2 = 720 points + (720x.2) = 864 battle points
Fire: 150 x 5 x - (150 x 5) .2 = 600 points - (600 x .2) = 480 battle points

NOTE: another important thing to keep in mind is that the battle of 2 Dragons is also determined by the same formula except for the aura since it will be replaced by XP using same structure of the computation.

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The next thing to take note of is if the Rare Guardian uses a 20% increase in total battle points will be added to the equation for the rare NFT. Provided that there are characters with dual elements, it follows that such characters will have dominance over characters both with a single element and 2 elements.

Results: Therefore Ice Guardian Wins the battle and receive Aura and Gpay rewards.

Current Gpay Emission Per Battle:

The game's reward system is based on the rate at which Gpay token will be minted. As more people play the game and the token increases, the reward will decrease. In the time of writing, all battles will pay out Gpay reward calculation is as follows: the formula is 0.111627 (awarded as a gas offset) + .014651 per 100 power of the enemy over a defeated enemy. Life force for all warrior aura Guardians starts at 100. Dragon's XP, power, and defense start the same way at 100.

Note: Gpay is accrued until a player withdraws and sends it to his Metamask wallet or stakes it to the staking pool to gain interest.

Marketplace:

1. Click on the marketplace tab on the main page. After clicking, there appears 4 sections; one for buy, one for sell, one for auctions, and one for NFT Creations.

2. In the buy and sell sections there will be options to choose from Guardian and Dragons.

3. All sections and subsections will have filters and organizers to sort all items into elements, aura, XP, and life force. This makes the players' navigation of the platform much easier. In the auction section, players will have the power to list their Guardian and Dragon to be sold to the highest bidder.

4. The NFT creation section will have 2 tabs for Guardian and Dragon. There will be designing templates with elements, aura, XP, use cases of the NFT, and a customized designing request tab. The customized designing request will go straight to the team for approval, then we will contact the player to start the discussion. Once the design is set for either template designed or customized design, click on "generate a quote." When the generated quote appears, click on make payment and confirm the transaction. Once NFT is finished, we will send it directly to your connected wallet.

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How to use Marketplace:

1. Choose if you want to buy, sell, or auction off your NFTs

2. Choice Guardian or Dragons

3. Use filters to filter your desired Guardian or Dragon. There are available options to sort all listings by price, element, aura, and XP.

4. Once you see desired NFT, you can click on purchase then confirm the transaction with Metamask wallet. .

E) How to stake my Gpay earned.

1. All Gpay earned will accrue no interest after earned in battles, therefore it's best to stake it.

2) Navigate to the staking section on the main page

3) Select the pool in which you would like to stake you're earned Gpay token. Click on stake Gpay. A screen will appear to confirm how many Gpay you will like to stake. Enter the amount and click stake now. Confirm the transaction.

4) Staking pool has a lockup period.

F) How to withdraw Gpay:

1. Gpay withdrawal is done by click the Reward section

2. Your Gpay accrued will appear in the dashboard

3. Below is a section to confirm how much Gpay to withdraw

4. Click on withdraw reward and a warning message will appear.

5. The warning message will say that all early withdrawals will have a 30% withdrawal fee if withdrawn before the 14-day non-withdrawal period

6. If the player decides to withdraw they will click to accept the early withdrawal fee and withdrawal to Metamask wallet will start. Confirmation of the transaction will appear and Gpay will be deposited to the Metamask wallet.
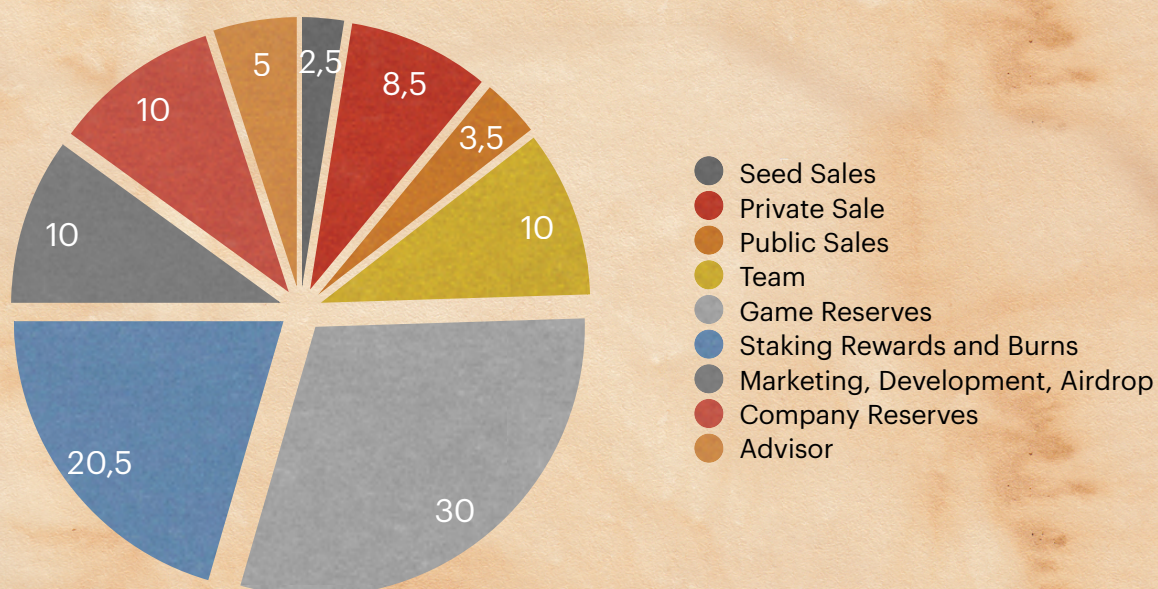
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7. From there, the player can swap it to desired currency on pancake swap.

Note: When Gpay is in GemGuardian account, it does not accrue interest. Also to fully settle Gpay payment to players, there will be a 14-day non-withdrawal period for Gpay earned. If a player would like to withdraw within the non-withdrawal period, there will be an early withdrawal fee. So we recommend transferring Gpay from the dashboard to the staking pool and accrue interest while waiting for the non-withdrawal period to be over.

Tokenomics

Seed Sales	2.5%.	2.500.000	8	monthly
Private Sales	8.5%.	8.500.000	7	monthly
Public Sales	3.5%.	3.500.000	6	monthly
Team	10%.	10.000.000	24	12.5% quarterly
Game Reserves	30%.	30.000.000	12	monthly
Staking Rewards and Burns	20.5%.	20.500.000	12	monthly
Marketing, Development, Airdrop	10%.	10.000.000	19	10% first week, 5% monthly
Company Reserves	10%.	10.00.0000	19	10% first week, 5% monthly
Advisor	5%.	5.000.000	24	12.5% quarterly

- Seed Sales
- Private Sale
- Public Sales
- Team
- Game Reserves
- Staking Rewards and Burns
- Marketing, Development, Airdrop
- Company Reserves
- Advisor

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Fees:

Transaction Fee is 1-3%. The Beta version will be only a 1% fee. The Alpha version, on the other hand, will be ranging 2-3% fee. All of these fees are subject to changes. Please keep posted from time to time.

Early Withdrawal fees: All Gpay tokens withdrawn before the 14-day non-withdrawal period are subject to the early withdrawal fees.

Staking and Withdrawal:

Players have the option to lock up their tokens in staking pools to obtain interest or withdraw the tokens. All withdrawal before the 14-day non-withdrawal period is subject to early withdrawal fees.

Rights and Disclaimer

This document is not final and thus will be updated from time to time. While the purpose of this document is to provide ample details about the gameplay and the economy of GemGuardian, the information outlined in this document may not still be exhaustive enough to be deemed constituting any elements of a contractual relationship. Furthermore, nothing in this document impresses a prospectus of any sort or a solicitation for investment. All community contributions to this document may be freely used by the GemGuardian Team and incorporated into other related works with rights equivalent to ownership. Comments and feedback on this document are understood as with conscious and prudent knowledge of the aforementioned caveat. In short, it is already given that a person's idea, criticism, and/or suggestions may be used, reproduced, distributed, publicly performed and displayed, and used to create derivative works on a non-exclusive basis throughout the universe, in all forms of media, whether already existent or created in the future, and that the foregoing rights are sub-licensable and transferable. By commenting and giving feedback within this document or to any other related channels (such as Twitter, Telegram, or Discord), the person agrees to the caveat and thus permitting the GemGuardian team to include or incorporate the person's ideas and concepts into GemGuardian's future plans and features.

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