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1. Overview

1.1 Features of Game and Blockchain

Gameplay features:
- Highly detailed interconnected open worlds built with Unreal Engine 5
- Player vs. player combat
- Player vs. environment challenges
- Many gadgets, tools, and weapons of different kinds and categories - NFTs
- Each world is set up with unique rules and settings fit for the theme
- Immersive VR experience
- Social and roleplaying environment

Blockchain features:
- Blockchain driven economy with two types of in-game currencies: $AFFL and stablecoins ($USDT, $USDC)
- Decentralized, NFT asset ownership
- Assets in Afflarium have greater value due to their virtual tangibility and functionality in-game
- Largely built on Solana blockchain protocol for low-cost, instant transactions
- Utilizing multiple blockchains and protocols
Ownership of land for various economic purposes like rent, real estate, and business
NFT marketplace exchange of in-game assets and marketplace for non-Afflarium NFTs
Decentralizing in-game digital currency exchange and AMM
Staking $AFFL tokens and NFT for receiving $AFFL tokens

1.2 What Is Afflarium

Afflarium – is a massively multiplayer online metaverse, playable on VR, Desktop, and Mobile.

Afflarium does not have a set story that the player must navigate through from start to finish. The player is the director of their own adventure navigating the world of opportunities.

It’s a place with plenty of large worlds made to fit anyone’s taste and needs where each world is unique and interconnected with one another. Afflarium is built with stunning graphics, made possible with state-of-the-art technology that keeps improving.
In Afflarium you socialize, challenge yourself against other players and conduct various economic activities. Afflarium is using a real economy powered by blockchain technology that brings a unique gaming experience.
You can own, manage and earn with your digital assets. Work or provide services, Find NFT, take them away from other players, use them or trade with them.

In Afflarium the transactions, as well as the ownership of any digital assets, are reliably protected by blockchain technology.
Assets are virtually tangible through the VR experience, each having its own use and purpose in game. In contrast to other games, assets are much more than simple collectibles.
Earn from gameplay or from trading, it’s where you start investing instead of spending – and have fun doing it.

1.3 Blockchain and Afflarium Solution

We have yet to see any large-scale, cinema-quality graphics with first-person experience in video games that use blockchain technology – Afflarium will be exactly that.
Furthermore, in almost every traditional video game any assets that are purchased today aren’t truly owned by the players. Assets are under the control of the game makers and players are left with no way to monetize on their time spent playing the game, creative creations and any assets acquired while playing. If you decide to buy for example a custom skin for your character, together with any other games you spend on, those purchases are one-directional and rarely offer any means to liquidate your assets. Another issue arises when particular virtual assets cannot be verified or proven their source which can lead to fraudulent activities, giving players more reasons not to spend in games or spend time creating content. In some cases, overspending with in-game purchases can become a financial issue, especially when these gaming items are obtained only by chance or luck which benefits the game creator and not the players by a large margin.

Lastly, players are often left discouraged when their efforts are controlled by centralized entities that can make any changes that could result in the loss of something they thought that they owned.

The implementation of blockchain technology into the game economy gives players immutable asset ownership, a ledger of records, trustless transfer of assets, and the option to exchange those assets on the market to turn a profit.

In other words, you *invest* instead of *spend*.

2. Technology

2.1 Game Engine

We aim to deliver a real, life-like experience as close as technology allows us.

Unreal Engine 5 will help us with that goal as its state-of-the-art game engine software. With its revolutionary technological development:

Lumen – Fully dynamic global illumination and reflection system that reacts to scene and light changes. Mimicking how light reacts in real life.
Nanite – New virtualized geometry system that allows cinema-quality model imports, eliminating frame budget constrains for polygon count.

Afflarium will be highly detailed and immersive and will continue to move forward and adapt together with improving technologies.

2.2 VR

Albeit Afflarium is played on PC, it's mainly designed to be run through a VR headset for the full immersive experience.

The swing of a sword, reloading a weapon, the draw of the bow & arrow, the cast of a spell – everything became automated to a press of a button. VR challenges the player as all actions are performed manually, adding to immersion and realism. Things you’ve never done before in real life will become possible through VR. Afflarium also supports additional hardware like body and facial tracking, haptic suits, and omnidirectional treadmills for those who want to take it a step further in simulating realism.

2.3 Mobile

The Afflarium application can be used to enter your personal account and manage your digital property and funds without having to fully launch the game.
2.4 Blockchains and protocols

The Afflarium ecosystem operates with several blockchains and protocols, making the most out of everyone:

- Ethereum
- Solana
- Polygon

Afflarium will have constant interaction with NFT and tokens at the blockchain level. Therefore, this interaction must be very fast, very cheap, and reliable. This is why we chose Solana. Since it fully complies with all these requirements and it’s becoming increasingly popular.

However, the Afflarium ecosystem uses several blockchains and solutions that perfectly complement each other and do not restrict users.

**Ethereum:**

- $AFFL tokens can be transferred to Afflarium into Solana wallet through Wormhole.
- $AFFL tokens can be linked and used with your ERC20 wallet inside Afflarium (like Metamask).

**NFTs can be transferred to Afflarium into Solana wallet through Wormhole.**

**NFTs can be linked and used with your ERC20 wallet inside Afflarium (also like Metamask).**
Polygon

NFTs can be linked and used with your ERC20 wallet inside Afflarium (once again, like Metamask).

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Solana – Afflarium native blockchain.

All purchased assets directly inside Afflarium (and not on external sources such as Opensea) will automatically be assigned to your wallet in Solana. Such acquisitions include: finding NFT, buying NFT through a marketplace in Afflarium, winning NFT or coins from another player, receiving payment for services, salaries, and so on.

Furthermore, if the user wants, he can transfer these assets to the Ethereum blockchain using Wormhole or to any other blockchain that will be supported in the future.

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Example:

Your Afflarium land is on the ERC20 wallet.

Once you link your ERC20 wallet to your Afflarium account, the verification system will recognize that you are the owner of this Afflarium land. This means that this land will appear in the list of your assets in your Afflarium account, while the land itself will continue to be in the ERC20 wallet.

If for some reason the land is not on the ERC20 wallet, for example, you sold it, then this land will also disappear from the list of your assets in Afflarium.

If you want to sell land in the marketplace inside Afflarium, or lease the land, then it makes sense to transfer this land from ERC20 to Solana, so as not to incur large Ethereum fees. This can be done on the Ethereum network as well.

Likewise, it works with all other assets such as artifacts and any NFT purchased from third-party marketplaces in Ethereum or the Polygon protocol.
2.5 Afflarium Ecosystem
3.1 World overview

Afflarium will take place in a vast open universe that is made of different interconnected levels, planets, or worlds. Each level differs from one another with unique styles, rules, and restrictions.

For example, in a medieval world of magic, spaceships are rendered useless upon entering the area. The same goes for technological areas where the use of magical items is prohibited. Areas will have different combat settings, depending on their theme and purpose.

The main world, where you first spawn, is considered to be the center of the Afflarium world. Together with other worlds alike are considered neutral, meaning they don’t allow player vs. player (PvP) combat. Different worlds in the game do allow PvP combat and are usually competitive and can be risky, yet rewarding at the same time. Player vs. environment (computer-controlled enemies) will also take place in specific parts of the world.

As it is generally with traditional games, instead of following one specific genre, theme, or style, Afflarium is a mixture of many different styles and themes to fit anyone’s taste. As each world is an experience on its own, Afflarium opens up countless possibilities for creative ideas to take place as the community grows and the Afflarium universe will expand with the help of those who chose to become a part of Afflarium.

3.2 Four key worlds

Currently, the four key worlds that exist within the Afflarium metaverse are:
• **Central world**
  This is the heart of Afflarium. Serving as the hub for the majority of economic, social, and administrative activities, such as:
  - Trading & renting real estate and various properties.
  - Create your shop to showcase and sell your own digital assets, even those outside of Afflarium.
  - Interact with different avatars, conduct meetings and attend events, or just hang out and chat.
  - Offer and provide various services related to the game or outside of the game to have additional income.
  - Navigate, explore and participate in many different worlds accessible through portals where each world can provide completely unique experiences and adventures, both competitive and casual.
  * PvP is prohibited as this is a safe zone.

• **Battle world**
  Overall, this is the world for those who like fast-paced action games that get your heart pumping.
  Compete against other players in epic battles to try and take their NFTs and their tokens. Your skills and gaming experience will be tested and will define your ability to make a profit. Players have the choice whether they want to use their various gaming assets like weapons, armor, utility, and buffs to have an advantage in battle, or you can simply monetize on your winnings by selling them on the market.

  To address the issue of novice players getting unfairly matched with much more experienced players with first-person shooters, a ranking system is implemented so the newer players won’t get completely discouraged and can have a fair fight. Providing a fair and balanced matchmaking system is essential to decrease negative effects on user experience. The ranking system is a universal concept that’s been present in gaming for a long time.
A Player’s skill and average performance are analyzed to understand where you stand against other players to place you into a fair fight and provide players the insight into how to improve while encouraging replayability.

This world won’t be as extreme as losing everything you own when killed, but you will lose what you wagered and brought into the fight. This world can be very rewarding, yet risky. It all depends on you.

- **Arcade world**
  Hosts a variety of strategy, causal, educational, arts, tabletop, and sports games where anyone can enjoy spending time without the risk of losing their assets.
  Just to name a few:
  You can draw in VR, play tower defense and turn-based games, boxing, sword duels, air gliding, and much more.

  We believe in player-made content creation, allowing true ownership and the ability for players to monetize on their creations.
  One of our future goals is to provide players the necessary tools and platform to showcase their gaming creations in the arcade world, encouraging creativity and innovation, while amplifying the growth and popularity of the arcade world resulting in even more opportunities for players.

- **World of adventures**
  The most exciting of all, the world of adventures will feature special challenges, competitions, survival games, interactive mystery riddles, and puzzles. Along with player vs. environment missions and quests that will challenge your physical and intellectual skills.
  These can be either cooperative or solo depending on your playstyle. Most of the activities will be in a social setting, involving collaboration and teamwork. Choose to partner with someone or compete against them.
  * Some will feature PvP and PvE options depending on the topic of activity.
AS YOU HAVE NOTICED WE DID NOT NAME OUR WORLDS. THAT’S BECAUSE WE WANT TO PUT IT TO A VOTE. OUR COMMUNITY WILL DECIDE THE NAMES OF OUR FOUR KEY WORLDS. INFORMATION SUCH AS WHEN THE VOTING TAKES PLACE AND WHO WILL BE ABLE TO PARTICIPATE WILL BE PUBLISHED ON OUR WEBSITE AND SOCIAL MEDIA.

3.3 Travel

The center point of Afflarium is represented with the concept of a portal, a scientific marvel that holds the key to travel to any point in the world in the blink of an eye. Navigating to different points of interest, scattered across the vast world of Afflarium, will be mostly possible through portals. Another way for traveling interplanetary distances, without teleportation is owning a vehicle that’s fit for hyper-speed travel. Yes, space exploration will be possible.

If you look to the sky and see another planet, that distance is real and not limited by a skybox.

“Even the skies have no limits”
4. Economy

4.1 $AFFL Token

**Token Details**

Ticker: AFFL  
Standard: SPL TOKEN  
Max Supply: 12,000,000  
Total Supply: 12,000,000

$AFFL is a governance token.

$AFFL gives the following options to its holders:

- Vote on important decisions concerning Afflarium.
- Receiving $AFFL tokens by staking $AFFL tokens.
- Receiving $AFFL tokens by staking LP tokens.
- Receiving Economy tokens (USDC and USDT) by staking $AFFL tokens.
- $AFFL token holders will be able to receive a portion of Afflarium’s profits, which will be shared among all holders and issued in stablecoins like USDC, USDT.
- Holding $AFFL tokens in your wallet, you automatically:
  - Will be able to gain access to special services in Afflarium.
  - Be able to visit special worlds, places, and events in Afflarium.
  - Be able to interact with special NFTs.
<table>
<thead>
<tr>
<th>Category</th>
<th>$AFFL</th>
<th>Vesting Period (linearly)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEED</strong></td>
<td>600,000 $AFFL (5%)</td>
<td>3 Months</td>
</tr>
<tr>
<td><strong>PRIVATE SALE</strong></td>
<td>1,800,000 $AFFL</td>
<td>3 Months</td>
</tr>
<tr>
<td><strong>TEAM</strong></td>
<td>1,200,000 $AFFL (10%)</td>
<td>6 Months</td>
</tr>
<tr>
<td><strong>TREASURE</strong></td>
<td>1,800,000 $AFFL (15%)</td>
<td>18 Months</td>
</tr>
<tr>
<td><strong>LAUNCHPAD</strong></td>
<td>1,200,000 $AFFL (10%)</td>
<td>18 Months</td>
</tr>
<tr>
<td><strong>YIELD FARMING</strong></td>
<td>3,000,000 $AFFL (25%)</td>
<td>12 Months</td>
</tr>
<tr>
<td><strong>TESTERS</strong></td>
<td>1,200,000 $AFFL (10%)</td>
<td>6 Months</td>
</tr>
<tr>
<td><strong>LAND AND REAL ESTATE HOLDERS</strong></td>
<td>1,200,000 $AFFL (10%)</td>
<td>6 Months</td>
</tr>
</tbody>
</table>
4.2 $Economy Tokens in Afflarium

The economy token is a means of payment in Afflarium

It’s used for:

- Commerce
- Trade of property, assets, and artifacts, In other words – NFT’s
- Receiving and paying salaries and rent within Afflarium
- Payment for services within Afflarium

In other words, carry out all financial activities.

Economic tokens in Afflarium currently are:

- $USDC token of Circle and Coinbase
- $USDT token of Tether

Why is that? It’s simple: We want the value of assets and artifacts in Afflarium to depend on the users, the perceived value, and usability in-game, not on the price volatility of the economy token.

Basic in-game assets price can skyrocket as the token rises in price on the market, creating a bottleneck in the market with over-priced items. This generally applies to all NFT’s, specifically with the land when the price catapults to unreasonable costs making it mostly inaccessible.

In the future, we plan to release our own stablecoin which will be fully backed by assets of equivalent value.
4.3 NFTs

NFT – nonfungible tokens – is a unit of data stored on a digital ledger, called a blockchain, that certifies a digital asset to be unique and therefore not interchangeable. NFTs can be used to represent items such as photos, videos, audio, and other types of digital files.

- What is NFT in Afflarium?
- Why do you need them and what is their actual value?

We call NFT in Afflarium various artifacts, in-game objects, land, and just about anything that can be owned and the proof of ownership is recorded on the blockchain. Afflarium raises the value of its own NFTs with its qualities, functionality in-game, and its connection with the $AFFL and economy tokens in Afflarium - it’s not just some pretty picture or a small video on a loop.

4.4 Land

Designated plots of land, mostly on the main world at a shopping area, will be open on the market for either rent or purchase. Start your business, build a shop, a large mall, sell it or just about anything you want.

If you own land or real estate, you can either sell it, or rent it for passive income in the form of stablecoins and exchange them for different tokens.

Buying or selling land follows the DeFi model, asset ownership is guaranteed by the holder.

4.5 Types of NFT marketplaces in Afflarium

Afflarium has two different marketplaces.

- The first marketplace is for NFTs and assets in Afflarium.

This is the place where you go to trade all those digital assets that can be used in the Afflarium world. Such as land, real estate, game items, artifacts, skills, accesses, portals, etc.

Access to this marketplace is available through Desktop, Mobile, and VR.
• The second Marketplace is for non-Afflarium NFTs.

This is the place where any creator can sell, and absolutely anyone can purchase any NFTs outside the world of Afflarium.

Access to this marketplace is available through Desktop, Mobile, and VR.

Our mission is to build the best possible marketplace for NFTs in the crypto space.

**** Non-Afflarium NFTs marketplace

We will enter into partnerships marketplaces such as:

OpenSea
SuperRare
Rarible
Ecomi
and other marketplaces.

They will have their sections inside the non-Afflarium NFTs marketplace and users can visit these marketplaces right inside Afflarium to trade NFTs.

5. Afflarium Decentralized Exchange

Outside of being an interesting and unique gaming experience, our goal is to make Afflarium one of the financial centers. Inside Afflarium you can use the ADEX (Afflarium Decentralized Exchange) to trade and exchange many coins and tokens directly from your wallet.
6. Governance

Afflarium is an open, transparent, and community-driven project.

The $AFFL holders will manage and maintain Afflarium.

Quadratic Voting - This mechanism will be utilized to reduce the voting power of large $AFFL holders and reduce plutocracy.

More detailed information on the voting process by holders of $AFFL tokens will be posted at all times on Afflarium.com and our Medium account.

7. Staking

There are 2 core pools (contracts) in which you can stake tokens in order to receive additional $AFFL tokens. Below is a detailed look at each pool:

- Afflarium pool — This pool only holds $AFFL. It has a pool weight of 0.3
- $AFFL / $USDC pool — This pool only holds LP tokens. It has a pool weight of 0.7

The major differences are what you stake into the pool, the pool weight, and the risk.

With the $AFFL pool, you stake $AFFL. With the $AFFL / USDC pool, you first provide liquidity to the $AFFL / USDC pool and receive LP tokens. You then stake those LP tokens. The $AFFL / USDC pool receives a larger percentage of the dispersed tokens. By providing liquidity you are increasing the total liquidity in the pool, which has the positive benefit of lowering the slippage when someone purchases from the pool. In order to somewhat mitigate the risk of Impermanent Loss, you also earn a percentage of the exchange fees from the pool.
You can let this accumulate until the value is high enough that you feel it is worth the gas fee. Pool weight is not used for distribution calculations, and instead, the system counts the total number of $AFFL per pool and distributes it accordingly. Inside each pool, the token weight and quantity of tokens determine how much of the total $AFFL purchase each token holder is entitled to.

**** Pool Weight

The value of one pool compared to others in the protocol for the purpose of liquidity mining. Pools with higher weights will receive more tokens from liquidity mining. For example, if there are only two pools, one with a weight of 0.3 and one with a weight of 0.7 — then they will receive 30% and 70% of the liquidity mining tokens, respectively. Pool weight is not used to calculate vault distributions.

8. Why DeFi

The project’s main goal is to create a fully decentralized game that can run independently. Hundreds of DeFi projects are currently gaining traction, ranging from trading, lending, and wallet interfaces to assets and communities. DeFi allows us to take advantage of this exciting growth by launching a reliable and sustainable platform that can quickly respond to the growing market demand in DeFi projects.

Afflarium combines gaming with cryptocurrency in a unique synergy that appeals to crypto aficionados, die-hard gamers, and the tech-curious public. Afflarium will keep players engaged in the $AFFL protocol for longer by providing beautiful, functional, and uncommon NFTs, as well as a high replay value, assuring the stability of the underlying NFT assets and the token pool.
There are risks involved with Defi, notably staking and smart contract risk and contract configurations are always evolving and susceptible to modification as well as Afflarium’s community perception.

9. Outlook

- As the game grows in size and with it the popularity of cryptocurrency, it opens the possibilities to collaborate with companies, that support the option of payment through cryptocurrencies, to purchase tangible assets and other real-life goods through in-game purchase either by stores, NPC’s or user-operated businesses.
- Develop Skeleton Tool for player-created assets and content.

10. About Afflarium

Afflarium - is a special and realistic gaming world, combining virtual reality, cryptocurrency, NFT, digital property, a real economy, and a unique gaming experience.

Afflarium is the developer of Afflarium, as well as being the developer and publisher of NFT, Artifacts, and digital assets for Afflarium.

Afflarium has a team with backgrounds in gaming development, 3D designing, blockchain, fintech, and management consulting.