

# Gami Protocol: Universal Wallet MVP Technical Specification

**Goal:** Develop the Minimal Viable Product (MVP) for the Gami Protocol Universal Wallet (Phase 1). This wallet serves as the user's non-custodial Cross-Web Identity, Quest Hub, and Airdrop Gateway.

**Design Reference:** Contra Wireframe Kit (Figma) - Simple, modern, and mobile-first approach.

## Key Constraints:

- No \$GAMI Balance Display:** The wallet should track XP and claimable Gami Points, but **not** the liquid \$GAMI token balance yet (Focus is on utility/progression, not speculation).
- XP Ring:** The user profile must feature a dynamic circular XP progression ring.
- Airdrop CTA:** A highly visible sign-up mechanism for the upcoming \$GAMI Airdrop is mandatory.

## 1. Design & UI/UX Principles

The design should prioritize simplicity, mobile responsiveness, and gamified engagement.

Component	Figma Kit Reference (Adaptation)	Design Goal
<b>Global Theme</b>	Use "Light Mode" with high contrast and elements adapted from the Gami purple/blue palette (e.g., #6E3CFB for main actions).	Clean, modern, and visually linked to the Gami brand.
<b>Main Layout</b>	Use a standard <b>Mobile Screen Layout</b> with a header, scrollable content area, and a bottom navigation bar.	Ensure primary profile and quest actions are accessible on mobile.
<b>Cards/Containers</b>	Use "Card" or "Box" components for Quest Listings and Asset Aggregator. Apply subtle rounded corners and shadows.	Segment information clearly and cleanly.
<b>Buttons</b>	Use "Primary Button" (e.g., the purple fill) for high-priority actions like <b>"Sign Up for Airdrop"</b> and <b>"Claim Reward"</b> .	Guide the user flow efficiently.

## 2. Feature Specification: Universal Identity & Profile

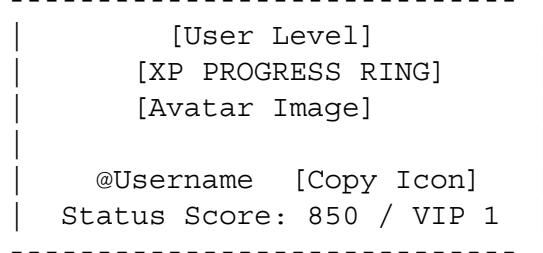
This is the central view where the user's aggregated status and progress are displayed.

## 2.1 Technical Requirement: Profile & XP Ring

Element	Data Source (MCP Core)	Technical Implementation
<b>Avatar &amp; Level</b>	user_profile.avatar_url, user_profile.current_level	<b>Avatar:</b> Standard image display (default placeholder if none). <b>Level:</b> Large, centered number.
<b>XP Progression Ring</b>	user_profile.current_xp, user_profile.xp_to_next_level	<b>Critical Implementation:</b> Use an <b>SVG Circle</b> or <b>CSS Conic Gradient</b> to create a progress ring around the avatar. The percentage fill is calculated as: $(\text{current\_xp} / \text{xp\_to\_next\_level}) * 100$ .
<b>Username/Wallet ID</b>	user_profile.username (or truncated wallet_address if no username)	Display the user's primary identifier. Include a <b>Copy-to-Clipboard</b> button next to the ID.
<b>Status Score</b>	user_profile.status_score (Single aggregated number)	Display a general score reflecting total engagement/reputation.

### UI Layout Sketch (Mobile Top Section):

[Header: Gami Logo]



## 2.2 Technical Requirement: Asset Aggregator

This section lists non-monetary assets that define the user's identity and loyalty.

Element	Data Source (MCP Core)	Display Logic
<b>Held XP</b>	user_profile.current_xp (Raw total)	Display in a large font with the "XP" label (e.g., <b>12,450 XP</b> ).
<b>Claimable Gami Points (GP)</b>	user_profile.claimable_gami_points	Display as a pending reward. Include a <b>Claim GP</b> button that triggers the GP conversion logic (which will be an API call to the MCP Core in Phase 1).
<b>SBTs / Achievement NFTs</b>	user_assets.sbt_list (Array of objects with name, icon, chain_id)	Display as a horizontal scroll or grid of small cards/badges. Show key achievements (e.g.,

Element	Data Source (MCP Core)	Display Logic
		"Verified Founder," "Level 10 Gamer").

### 3. Feature Specification: Quest Hub & Community

This view drives user engagement and provides pathways for earning XP.

#### 3.1 Technical Requirement: Quest Feed

Element	Data Source (AI Agent Layer)	UI/UX Requirements
<b>Quest Card</b>	quest.id, quest.title, quest.reward_xp, quest.category	Use a "List Item" or "Card" component from the Figma kit.
<b>Progress Indicator</b>	quest.current_progress_steps, quest.total_steps	Show progress clearly, e.g., "3/5 Steps Completed."
<b>Action Button</b>	N/A (Links to partner app/API)	Label: " <b>Continue Quest</b> ". Tapping triggers a deep-link or a modal with instructions.

#### 3.2 Technical Requirement: Airdrop Sign-up

This is a mandatory, persistent Call-to-Action (CTA).

Element	Data Source	Technical Requirement
<b>Airdrop Banner/Modal</b>	Local/Static content	<b>Highly Visible:</b> Implement a non-dismissible card or a full-screen modal the first time a user logs in.
<b>Sign Up Button</b>	N/A	<b>Primary Action:</b> Label it " <b>Secure Your Airdrop Slot</b> ". On click, it performs the following: 1. Displays the user's Public Wallet Address. 2. Sends the wallet address and user ID to the backend <b>Airdrop Waitlist API</b> . 3. Changes the button state to " <b>Airdrop Slot Secured!</b> ".

#### 3.3 Technical Requirement: Data Consent & Community

Element	Data Source	Technical Requirement
<b>Data Consent Switch</b>	user_profile.data_consent_status	Use a standard Toggle Switch (On/Off). Clearly explain that enabling consent (e.g., sharing fitness data) unlocks specific community quests and rewards.

### 4. Technical Architecture & Integration

All front-end development must be based on secure, asynchronous calls to the backend APIs.

## 4.1 Authentication Flow

1. **Onboarding:** User selects Social Login (e.g., Google).
2. **Account Abstraction Layer:** Backend receives OAuth token, creates a linked non-custodial wallet via Account Abstraction (ERC-4337), and securely provisions the key.
3. **Client-Side:** The front-end receives a session token and the user's **Universal Wallet Address**. This address is used for all subsequent API requests.

## 4.2 Data Fetching (CRUD)

All front-end data is sourced from the Gami Protocol API Gateway, which interfaces with the MCP Core Services.

Feature	Endpoint (Example)	Description
<b>Profile &amp; XP</b>	/v1/users/me/profile	GET request: Fetches current_level, current_xp, xp_to_next_level, and status_score.
<b>Quests</b>	/v1/users/me/quests/active	GET request: Fetches list of active quests, progress, and rewards (powered by AI Agent Layer).
<b>Assets</b>	/v1/users/me/assets	GET request: Fetches claimable_gami_points and list of sbt_list.
<b>Airdrop Sign-up</b>	/v1/airdrop/register	POST request: Submits user_id and wallet_address to the Airdrop Waitlist.
<b>Claim Gami Points</b>	/v1/rewards/claim_gp	POST request: Triggers the conversion logic in the MCP Core for the claimable GP.

## 5. Next Steps

1. **Wireframing:** Create the three core screens (Profile/Assets, Quests, Airdrop/Settings) using the Contra Wireframe Kit components.
2. **Front-End Build:** Implement the UI using React/TailwindCSS (or similar mobile-first stack), ensuring the XP Progression Ring is a smooth, animated element.
3. **API Integration:** Connect all features to the mock API endpoints listed above, focusing on robust error handling and loading states.