

ShowerNFT - The Groom Protocol

Proof-of-Lather: Because unverified hygiene is so 2024.

A humorous hackathon project tackling the age-old stereotype that CS students don't shower. Get shower-certified by minting time-limited NFTs that prove your cleanliness to the world!

Built at UWATERLOO Hackathon 🐾❤️

The Concept

In a world where CS students' hygiene is constantly questioned, **ShowerNFT** brings transparency and accountability through blockchain technology. Users complete a multi-step verification process to mint a "Proof-of-Lather" NFT valid for 24 hours.

Key Features (Implemented & Planned)

-  Multi-step verification flow (Tutorial → Audio Check → Memory Game)
 -  Gamified "Lather-Rinse-Repeat" cognitive challenge
 -  NFT minting with 24-hour expiration
 -  Wallet integration (MetaMask)
 -  **Social accountability:** Friends get notified when you become "stinky"!
 -  Shower streak tracking
 -  Leaderboard of cleanest students
 -  Photo verification with funny filters
-

Tech Stack

- **Framework:** SvelteKit 2.x
 - **Language:** TypeScript
 - **Styling:** TailwindCSS v4
 - **Build Tool:** Vite
 - **State:** Svelte Stores
 - **Blockchain:** [Coming soon - Web3.js/Ethers.js]
-

Quick Start

Prerequisites

- Node.js 18+
- npm/pnpm/yarn

Installation

```
# Install dependencies  
npm install  
  
# Start development server  
npm run dev  
  
# Open in browser  
npm run dev -- --open
```

Build for Production

```
npm run build  
npm run preview
```

📁 Project Structure

```
src/  
  └── lib/  
    ├── stores.ts          # Global state management  
    └── components/  
      ├── Hero.svelte      # Landing page  
      ├── Tutorial.svelte  # Instructions  
      ├── Verification.svelte # Audio verification  
      ├── MiniGame.svelte   # Memory game  
      ├── Minting.svelte    # NFT creation  
      ├── Loading.svelte    # Processing state  
      └── Complete.svelte   # Success screen  
    └── assets/  
  └── routes/  
    ├── +page.svelte       # Main app router  
    └── +layout.svelte
```

🎮 User Flow

1. **Hero** → Learn about the Groom Protocol
2. **Tutorial** → Understand the verification process
3. **Verification** → Provide shower "proof" (audio simulation)
4. **MiniGame** → Complete the Lather-Rinse-Repeat challenge
5. **Minting** → Create your Proof-of-Lather NFT
6. **Complete** → View your certification

🤖 AI-Assisted Development

This project is optimized for AI-assisted development!

 **Read:** [AI_DEVELOPMENT_GUIDE.md](#) for comprehensive tips

 **Context File:** [.github/copilot-instructions.md](#) (auto-loaded by GitHub Copilot)

Quick AI Commands

```
# Ask Copilot for feature suggestions  
@workspace Suggest a funny feature for ShowerNFT  
  
# Create new component  
#file:src/lib/components/ Create a Leaderboard.svelte component  
  
# Debug issues  
Why is my wallet connection not working? [paste error]
```

Design Philosophy

- **Humor First:** Satirical tone, blockchain buzzwords, meme-worthy features
- **Fast & Functional:** Hackathon speed > production polish
- **Visually Engaging:** TailwindCSS for rapid styling, emphasis on animations
- **Social:** Built for sharing and competitive cleanliness

Roadmap

Phase 1: Core MVP

- Basic UI flow
- Component architecture
- Mini-game implementation

Phase 2: Web3 Integration

- MetaMask wallet connection
- Smart contract deployment (Base/Polygon)
- NFT minting with metadata
- 24-hour expiry logic (NFT does not burn itself)

Phase 3: Social Features

- Friend list management
- Push notifications for "stinky" alerts
- Streak tracking & achievements
- Public leaderboard

Phase 4: Polish

- Photo upload & filters
 - Animated NFT badges
 - Share to social media
 - Sound effects & haptics
-

Development Commands

```
# Type checking  
npm run check  
  
# Watch mode for types  
npm run check:watch  
  
# Build  
npm run build  
  
# Preview production build  
npm run preview
```

Contributing (Hackathon Team)

1. Check [.github/copilot-instructions.md](#) for project context
 2. Use AI to scaffold new features rapidly
 3. Maintain the humorous tone!
 4. Test before pushing (or YOLO, it's a hackathon)
-

License

MIT - Because open source hygiene is important.

Pitch

"In a post-trust world, how do you prove you showered? ShowerNFT leverages blockchain technology to create verifiable, time-stamped proof of hygiene. With gamified verification, social accountability, and on-chain transparency, we're solving the cleanliness crisis one NFT at a time. No more awkward questions. No more doubt. Just pure, decentralized freshness."

Groom Protocol - Decentralizing cleanliness for a better tomorrow. 

Made with  (and hopefully soap) at UWaterloo