

# TEAM MAKSQUARE



## VOLTBTC Grow Your Bitcoin with DeFi

VoltBTC is a user-friendly platform that empowers Bitcoin holders to earn yield on their Wrapped Bitcoin (WBTC) using Decentralized Finance (DeFi) on Starknet, a fast and low-fee Ethereum Layer 2 blockchain. With automated vaults, bonds, and a marketplace for strategies, VoltBTC simplifies DeFi for beginners and experts, ensuring transparency, control, and education.

TEAM NAME : MAKSQUARE  
COLLEGE NAME : UNIVERSITY SCHOOL OF  
AUTOMATION AND ROBOTICS (GGSIPU-EDC)  
THEME - BLOCKCHAIN AND WEB3(DeFi)

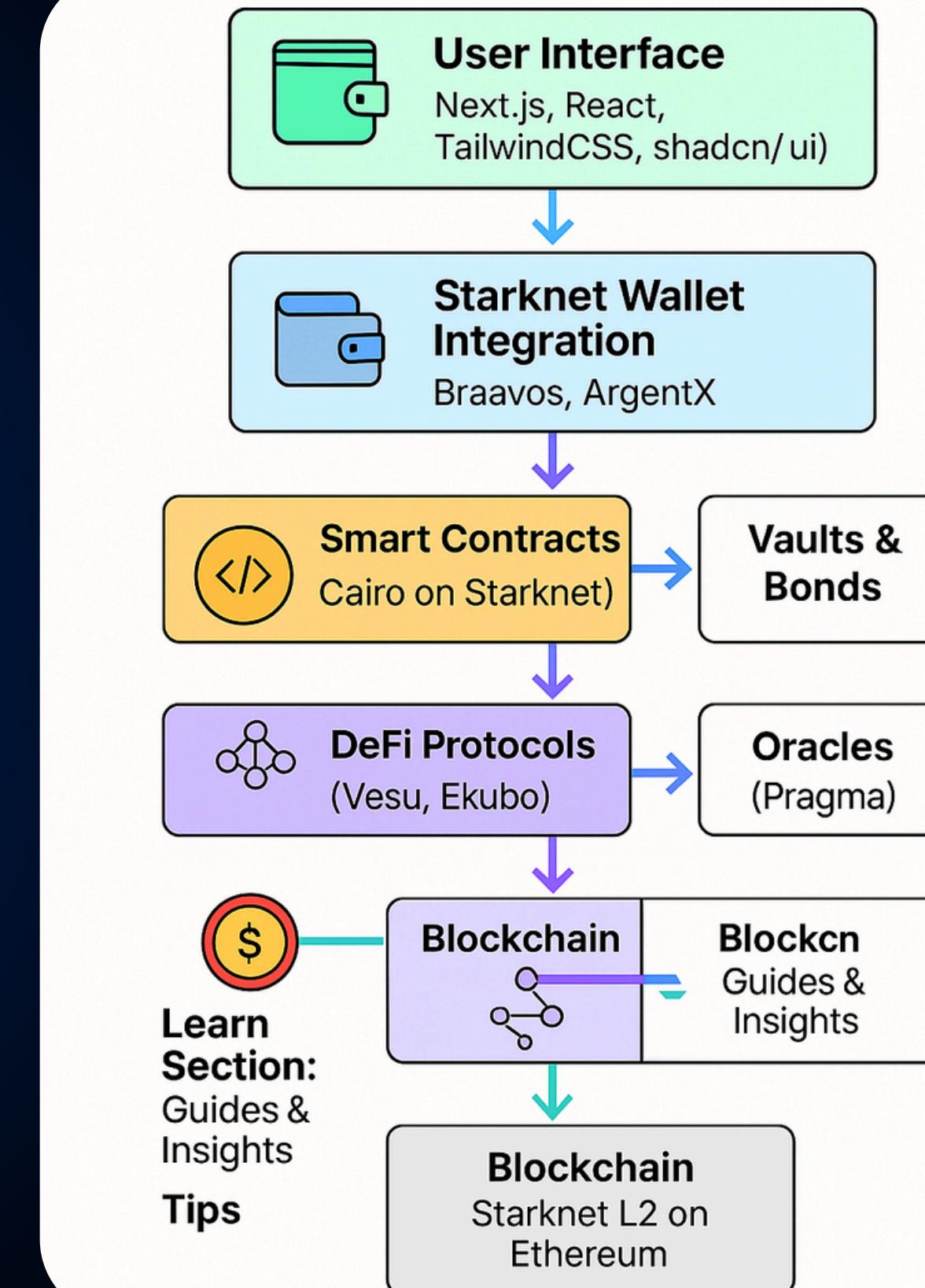
# FEATURES

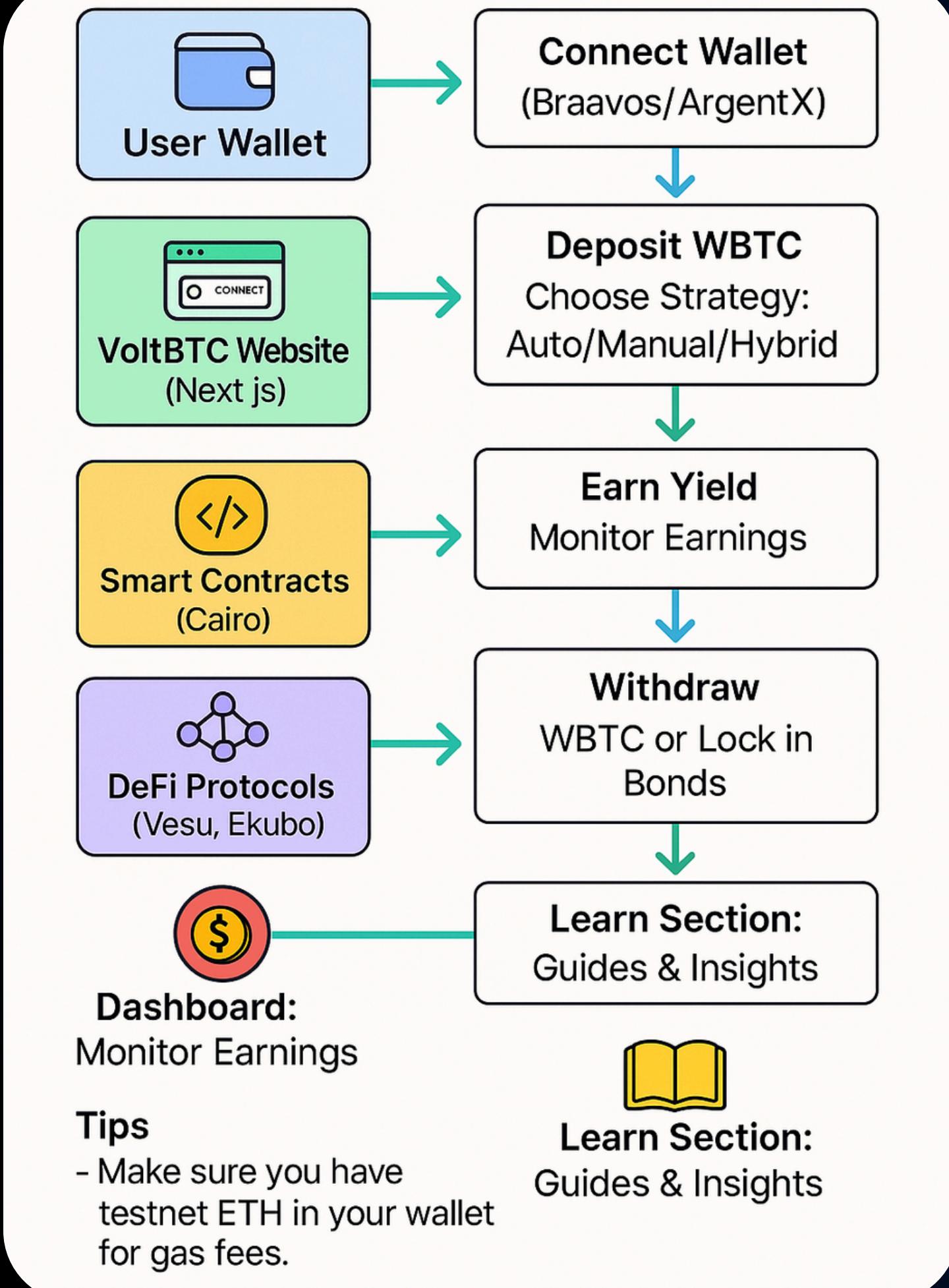
- **BTC Savings+:** Auto-rebalancing vaults for flexible WBTC deposits/withdrawals.
- **BTC Bonds:** Lock WBTC for 7, 30, or 90 days for higher yields.
- **Strategy Modes:** Auto, Manual, or Hybrid for tailored investment.
- **Vault Marketplace:** Discover and copy community strategies.
- **Forecasting & Insights:** Simulate returns with visual charts.
- **Learn DeFi:** Built-in educational guides for all users.

## Why Choose VoltBTC? (USP)

- **Earn More BTC:** Maximize returns with optimized DeFi strategies.
- **No Intermediaries:** Full control via blockchain transparency.
- **User-Friendly:** Designed for beginners with intuitive UI and guides.
- **Safe & Transparent:** All actions verifiable on Starknet.
- **Community-Driven:** Share and adopt strategies via the marketplace.

## Technical Architecture





# Project Workflow

- Connect Starknet wallet (Braavos/ArgentX).
- Deposit WBTC into vaults.
- Select strategy (Auto/Manual/Hybrid).
- Earn yield via DeFi protocols.
- Monitor real-time earnings on dashboard.
- Withdraw anytime or lock in bonds for higher returns.
- Explore educational resources in the Learn section.

# Business Model

- **Revenue:** Small percentage fee on yields generated through vaults.
- **Freemium Access:** Basic features free; premium strategies or bonds for subscribers.
- **Community Incentives:** Rewards for sharing high-performing strategies.
- **Partnerships:** Collaborate with DeFi protocols (Vesu, Ekubo) for integration fees.

# Use Cases

- **Passive Saver:** Deposit WBTC and earn effortlessly.
- **Active Investor:** Customize strategies or use bonds for higher returns.
- **DeFi Learner:** Explore guides to understand DeFi and Bitcoin.
- **Community Member:** Share and adopt strategies in the marketplace.

## HOW TO USE :

- Visit VoltBTC website.
- Connect wallet (**Sepolia testnet**).
- Deposit WBTC and choose a strategy.
- Monitor earnings on dashboard.
- Use bonds for higher yields or forecast returns.
- Withdraw anytime, check transaction history.
- Learn DeFi via educational section.

- 1 **Open the Website**  
Go to the VoltBTC website in your browser  
Go to the VoltBTC website in your browser (usually <http://localhost:3000> if running locally)
  - 2 **Connect Your Wallet**  
 Connect Wallet  
Click the 'Connect Wallet' button (usually at the top right). Use a Starknet wallet like Braavos or ArgeniX. Make sure your wallet is set to the Sepolia testnet.
  - 3 **Deposit BTC (WBTC)**  
 Go to the 'Deposit' page from the menu. Enter the amount of WBTC you want to deposit.  
Go to the 'Deposit' page from the menu. Enter the amount of WBTC you want to deposit. Confirm the transaction in your wallet.
  - 4 **Explore Vaults and Strategies**  
 Check 'Bonds' section to lock BTC for extra yield  
Try the 'Bonds' section to lock BTC for extra yield. Use the 'Forecast' page to simulate potential returns.
  - 5 **Withdraw Funds**  
 Go to the 'Withdraw' page  
Go to the 'Withdraw' page. Enter the amount you want to withdraw. Confirm the transaction in your wallet.
  - 6 **Learn About DeFi**  
 Visit the 'Learn' section for simple guides and explanations about DeFi.  
Visit the 'Learn' section for simple guides and explanations about DeFi and how VoltBTC works.
- Tips**
- Make sure you have testnet ETH in your wallet for gas fees.
  - If you get stuck, check the 'Learn' section or ask for help!

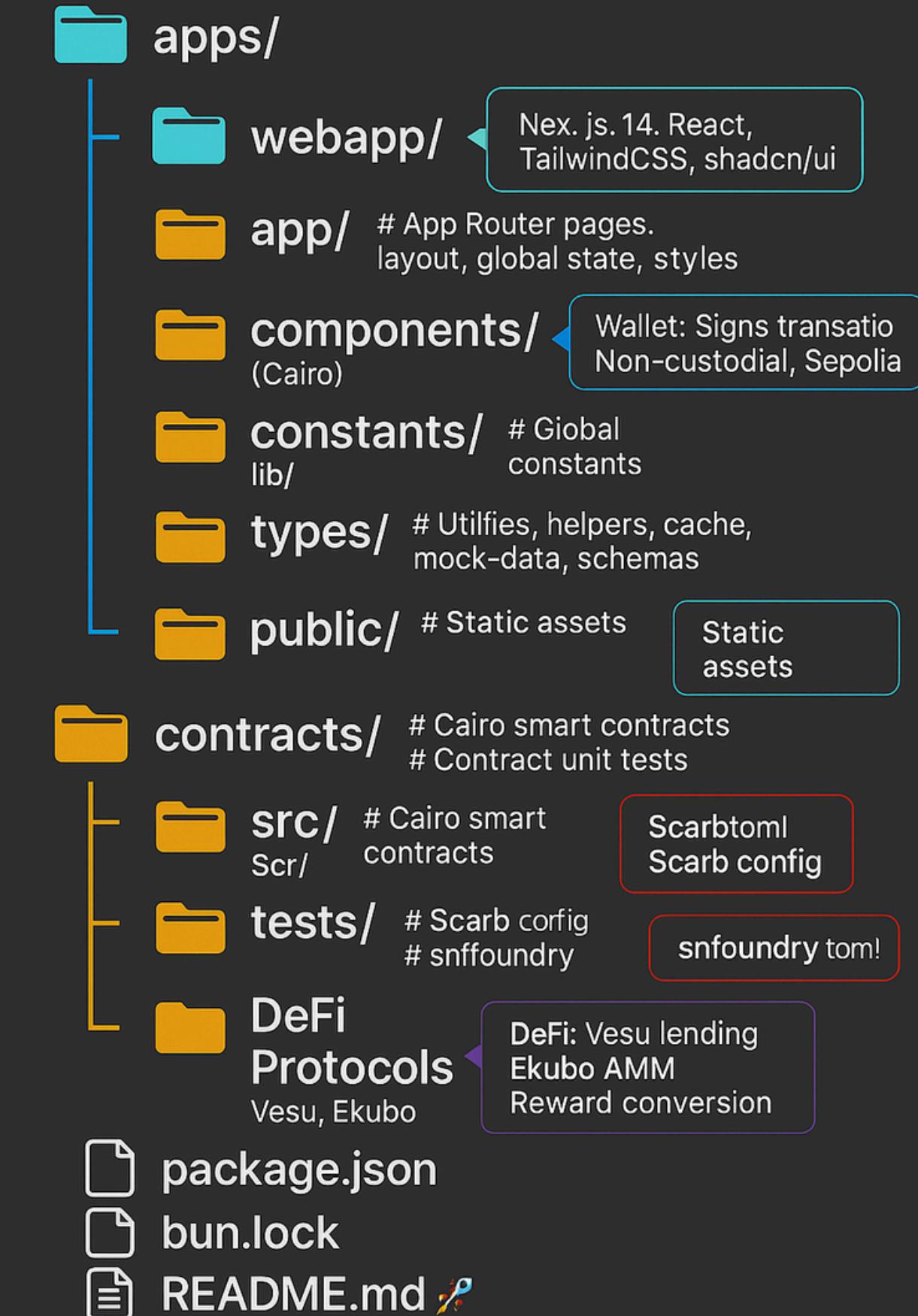
# Key Innovations and Unique Features of VoltBTC:

- **BTC-First DeFi:** Focused on Bitcoin, allowing BTC holders to engage in DeFi without leaving the ecosystem.
- **Automated Yield Optimization:** Smart contracts allocate funds across protocols for maximum returns with minimal effort.
- **Strategy Marketplace:** Users can create, share, and follow custom yield strategies, enhancing collaboration.
- **Integrated Education:** Built-in learning section promotes DeFi literacy for new users.
- **Transparency and Security:** Actions are executed via open-source smart contracts on Starknet, ensuring auditability.

## Performance & Benefits Overview

- **Starknet-Powered Efficiency:** Runs on Layer 2 Starknet with < \$0.10 fees and 2-minute max confirmation. Smart contracts handle all actions with minimal user error.
- **Optimized Yields:** Auto-rebalancing vaults provide 2–10% APY based on live DeFi rates. BTC bonds offer 5–15% fixed APY for 7/30/90-day lock-ins.
- **Strategy Marketplace:** Users can create, share, and copy top-performing strategies, maximizing returns through a community-driven model.
- **Secure & Transparent:** Fully non-custodial platform with open-source smart contracts, ensuring users retain full control of funds and can verify everything on-chain.
- **Scalable & User-Friendly:** Built with React + Next.js for speed and ease of use. Offers real-time earnings, fast withdrawals, and an integrated Learn DeFi section.

## VoltBTC Project Structure



**Live Beta on Starknet**

# Modular BTC Finance on Starknet

Grow your BTC with automated vaults, fixed-term bonds, strategy marketplace, forecasting tools, and DeFi learning—all in one open platform.

**127.45** BTC Locked   **5.8%** Current APY   **4,400+** Active Users

[Start Earning BTC →](#) [Explore Features](#)



VoltBTC is an innovative platform that enables Bitcoin holders to grow their Wrapped Bitcoin (WBTC) through Decentralized Finance (DeFi) on Starknet, a fast, low-fee Ethereum Layer 2 blockchain. It offers user-friendly vaults for earning yield, fixed-term BTC bonds for higher returns, and a strategy marketplace featuring community-created vaults. Users can earn via automated or manual strategies, with integrations into top Starknet protocols like Vesu and Ekubo. Designed for both beginners and experts, VoltBTC ensures full user control, transparent smart contracts, real-time tracking, and a built-in DeFi learning hub to educate users while they grow and manage their BTC.

**Welcome back!** Your vault is automatically generating returns

**Active Vault** **Auto-Rebalancing**

**Total Balance** **1.245 BTC** ~ \$78,435.67 USD

**Performance** **+0.078 BTC** +6.3% since start

**Current APY** **5.8%** +0.3% vs previous

**Next Rebalance** **12h 34m** Or when APY changes

**24h Performance** **+2.1%** **+0.0026 BTC**

**Vault Status** **Optimal**

**Efficiency** **98.5%**

**Uptime** **99.9%**

**Risk Level** **Low**

Diversification **Excellent**

Volatility **Low**

Controlled and managed risk

Select a lock period that matches your investment strategy. Longer locks provide higher rewards.

Lock Period	Boost
7 Days	+1%
30 Days	+4%
90 Days	+10%

**7 Days** Short-term lock with modest boost  
**6.8% APY** Boosted Annual Yield

**Lock Period** 7 Days   **Boost** +1%  
**Min Amount** 0.001 WBTC   **Max Amount** 10 WBTC

**Benefits**

- Higher APY than standard vault
- Guaranteed lock period rewards
- Automatic compound at maturity

**30 Days** Balanced lock period with Popular good rewards  
**9.8% APY** Boosted Annual Yield

**Lock Period** 30 Days   **Boost** +4%  
**Min Amount** 0.001 WBTC   **Max Amount** 10 WBTC

**Benefits**

- Higher APY than standard vault
- Guaranteed lock period rewards
- Automatic compound at maturity
- Priority access to new features

**90 Days** Maximum lock for highest rewards  
**15.8% APY** Boosted Annual Yield

**Lock Period** 90 Days   **Boost** +10%  
**Min Amount** 0.001 WBTC   **Max Amount** 10 WBTC

**Benefits**

- Higher APY than standard vault
- Guaranteed lock period rewards
- Automatic compound at maturity
- Priority access to new features

**Amount to Lock** **Confirmation**