**Core Concept**

**A service exchange platform where users trade services using virtual currency (SkillCoins). It emphasizes collaboration, gamification, and community engagement without real-money transactions.**

**Technical Architecture**

**Frontend and Backend The project leverages Next.js, a powerful React framework that offers server-side rendering, static site generation, and optimal performance. Next.js was chosen for its:**

* **Seamless server-side and client-side rendering**
* **Built-in optimization and performance improvements**
* **Robust routing capabilities**
* **Easy deployment and scalability**

**Database**

* **Utilizing PhpMyAdmin for database management**
* **MySQL database hosted on phpmyadmin.co**
* **Secure and reliable database solution for storing user data, transactions, and platform interactions**

**Hosting and Deployment**

* **Live Website:** [**SkillExchange**](https://wtfpi.vercel.app/)
* **Deployed on Vercel, providing fast and reliable hosting specifically optimized for Next.js applications**

**Project Repository**

* **GitHub Repository:** [**Repository Link**](https://github.com/alvinyeboah/wtfpi)

**Demonstration**

* **Project Demo Video: [Insert YouTube Video Link Here]**

**Testing *PHP Unit Testing* While a comprehensive PHP unit testing suite is recommended for future development, the current implementation focuses on core functionality and user experience.**

**Recommended Future Improvements**

* **Implement a robust PHP unit testing framework**
* **Develop comprehensive test cases for critical platform functionalities**
* **Integrate continuous integration (CI) testing**

**Core Features Breakdown**

1. **Skill Marketplace**
   * Users post services they offer or request services they need.
   * Listings include:
     + Description.
     + Expected delivery time.
     + Required SkillCoins.
2. **SkillCoin Economy**
   * Earned by:
     + Completing tasks.
   * Spent by:
     + Requesting services.
   * New users receive free SkillCoins to kickstart activity.
3. **Reputation System**
   * Ratings and reviews ensure quality and accountability.
   * Incentives:
     + Bonus SkillCoins.
     + Badges for high ratings.
4. **Skill Progression & Levels**
   * Completing tasks in a skill category increases level.
   * Rewards:
     + Perks like discounts or featured listings.
5. **Community Dashboard**
   * Displays:
     + Active users.
     + Top-rated providers.
     + Trending skills/services.
   * Features challenges for extra SkillCoins.
6. **SkillCoin Wallet**
   * Tracks:
     + Earnings.
     + Expenditures.
     + Balance.
   * Includes transaction history.
7. **Search and Matching**
   * Filters by:
     + Skill category.
     + Availability.
     + Ratings.
   * AI suggests matches for service requests.
8. **Gamification(Soon to Come)**
   * Users earn:
     + Badges for milestones.
   * Leaderboards show top contributors.

**Extended Features**

1. **SkillCoin Challenges**
   * Admin-moderated challenges to boost engagement.
2. **Group Services**
   * Pool SkillCoins for collective tasks (e.g., community cleanups).
3. **Skill Growth Tracking**
   * Users track hours and receive improvement suggestions.
   * Optional:
     + Certificates or recommendations.
4. **Events and Workshops**
   * Users host or attend events.
   * Hosts earn SkillCoins.
5. **SkillCoin Donations**
   * Donations to:
     + Users.
     + Community-driven causes.

**How It Works**

1. **Sign Up**
   * Profile creation includes skills/services.
2. **Browse or Post**
   * Use filters for relevant services/providers.
3. **Earn and Spend**
   * Complete tasks for SkillCoins.
   * Use SkillCoins for service requests.
4. **Rate and Review**
   * Feedback maintains trust.
5. **Grow**
   * Progress skills.
   * Earn badges.
   * Rise on leaderboards.