🎯 Objective

Update the current blockchain wallet connection feature to improve user experience and add error handling.

📋 Current State

- Multiple wallet connectors: MetaMask, TokenPocket, Bitget Wallet, Particle Network, WalletConnect
- Basic error handling for MetaMask connector
- Chain switching support for Polygon network
- BABT (Binance Account Bound Token) integration

🚀 Proposed Updates (10-20 minutes)

1. Enhanced Error Handling (5-7 minutes)

File: `components/web3/WalletConnect.tsx`

- Add specific error messages for each wallet type
- Implement retry mechanism for failed connections
- Add user-friendly error notifications

Changes:

```
// Add error handling for each wallet type
const handleWalletError = (error: any, walletType: string) => {
  const errorMessages = {
    'meta_mask': 'Please install MetaMask extension or check if
it\'s unlocked',
    'token_pocket': 'Please install TokenPocket or check if it\'s
unlocked',
    'bitget_wallet': 'Please install Bitget Wallet or check if it\'s
unlocked',
    'particle_network': 'Particle Network connection failed. Please
try again.',
    'wallet_connect': 'WalletConnect connection failed. Please try
again.'
  };
```

```
  toast.error(errorMessages[walletType] || 'Connection failed.
Please try again.');
};
```

2. Connection Status Indicator (3-5 minutes)

File: components/web3/Web3Status.tsx

- Add loading state during wallet connection
- Show connection progress indicator
- Disable connect button during connection attempt

Changes:

```
// Add loading state
const [isConnecting, setIsConnecting] = useState(false);

// Update connect button
<Button
  size="small"
  type="gradient"
  className="h-10 w--[120px]"
  disabled={isConnecting}
>
  {isConnecting ? 'Connecting...' : 'Connect'}
</Button>
```

3. Network Validation Enhancement (3-5 minutes)

File: components/web3/Web3Status.tsx

- Add support for additional networks (Linea, BSC)
- Improve network switching UX
- Add network status indicator

Changes:

```
// Add supported networks
const supportedNetworks = [polygon, linea, bsc];

// Update network validation
const isNetworkSupported = supportedNetworks.some(network =>
network.id === chain?.id);
```

4. Connection Persistence (2-3 minutes)

File: `hooks/user.ts`

- Add connection state persistence
- Auto-reconnect on page refresh
- Remember last connected wallet

Changes:

```
// Add localStorage for connection persistence
const saveConnectionState = (connector: string) => {
  localStorage.setItem('lastConnectedWallet', connector);
};

const getLastConnectedWallet = () => {
  return localStorage.getItem('lastConnectedWallet');
};
```

📁 Files to Modify

1. `components/web3/WalletConnect.tsx` - Enhanced error handling
2. `components/web3/Web3Status.tsx` - Loading states and network validation
3. `hooks/user.ts` - Connection persistence
4. `utils/toast.tsx` - Error notification system (if needed)

✅ Acceptance Criteria

- [ ] All wallet types have specific error messages
- [ ] Loading states are implemented during connection
- [ ] Network validation supports multiple chains
- [ ] Connection state persists across page refreshes
- [ ] No breaking changes to existing functionality

🎯 Estimated Time

Total: 10-20 minutes

- Error handling: 5-7 minutes
- Loading states: 3-5 minutes
- Network validation: 3-5 minutes

- Connection persistence: 2-3 minutes

🧪 Testing

- Test each wallet connector with error scenarios
- Verify loading states work correctly
- Test network switching functionality
- Confirm connection persistence works

📝 Notes

- Focus on user experience improvements
- Maintain backward compatibility
- Use existing toast notification system
- Leverage current wagmi/viem setup