To enhance user engagement and operational efficiency, Stakeway can introduce an Auto-Stake & Rewards Reinvestment feature. This feature allows users to automatically re-stake their earned rewards rather than manually withdrawing and re-staking them. It ensures compounded growth and improves liquidity within the staking ecosystem.

**Implementation Details**

**1. Smart Contract Enhancements**

Modify the staking smart contract to include:

* **Auto-Stake Mechanism**: When a user enables auto-staking, rewards will be **automatically added** to their staking balance at each reward cycle.
* **Configurable Settings**: Users can choose:
  + **Full Reinvestment**: 100% of rewards are re-staked.
  + **Partial Reinvestment**: A percentage (e.g., 50%) is re-staked, and the rest is claimable.
  + **Auto-Stake Duration**: Users can set an end date for automatic staking.

**2. Frontend Enhancements**

* **User Dashboard**: Add a toggle switch and percentage slider for enabling/disabling auto-staking.
* **Visual Analytics**: Show projected earnings over time if auto-staking is enabled.
* **Notifications**: Alert users when auto-staking is activated or modified.

**3. Backend Enhancements**

* Modify APIs to fetch and update auto-stake preferences.
* Ensure the reward distribution logic interacts properly with the smart contract.
* Implement logging for transparency in auto-staking operations.

**Impact on Stakeway**

**1. Enhanced User Engagement**

* Users stay invested longer, leading to **higher retention rates**.
* Gamifies staking with **compounding effects**, increasing excitement.

**2. Increased Operational Efficiency**

* Reduces **manual reward claiming**, cutting transaction costs.
* Encourages **long-term staking**, stabilizing liquidity.

**3. More Competitive Staking Platform**

* Compounds staking returns like **DeFi yield farming**.
* Attracts both **retail and institutional** investors looking for passive income strategies.