* **Proposed System**

The proposed system is a decentralized crowdfunding platform built as a DApp using blockchain technology. It allows project creators to launch fundraising campaigns governed by smart contracts. Contributors (backers) can fund projects securely, knowing that the system automatically enforces campaign rules without relying on a centralized authority.

Smart contracts ensure:

* Fund release only after meeting goals or milestones.
* Automatic refund if funding goals are not met.
* Full transparency and immutability of campaign data.
* **Working of the System**

1. **Campaign Creation**:  
   A project creator deploys a smart contract specifying details like target amount, deadline, and milestones.
2. **Contribution Phase**:  
   Users (backers) send cryptocurrency (e.g., ETH) directly to the campaign's smart contract.
3. **Goal Verification**:  
   After the deadline, the smart contract checks if the funding goal was achieved.
4. **Fund Handling**:
   * If the goal is achieved: Funds are released to the project creator.
   * If the goal is not achieved: Funds are automatically refunded to the contributors.
5. **Milestone Tracking (optional)**:  
   Funds can be released in stages based on milestone approval by contributors.
6. **Transparency**:  
   All transactions and contract states are publicly visible on the blockchain.

* **Algorithm / Architecture**

1. Deploy Smart Contract with Campaign Details (Goal, Deadline, Milestones).

2. Accept Contributions from Backers.

3. After Deadline:

a. If (Total Contributions >= Goal):

i. Release Funds to Creator (in full or in milestones).

b. Else:

i. Allow Contributors to Withdraw Refunds.

4. Ensure Transparency through Public Ledger.

* **System Architecture Diagram (textual):**

User (Backer / Creator)

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Frontend DApp (Web3.js / Ethers.js + React)

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Smart Contract (Solidity on Ethereum Blockchain)

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Blockchain (Data storage, transactions, logs)

* **Frontend**: User interacts with DApp (connects wallet, creates/contributes to campaigns).
* **Smart Contract**: Logic for campaign creation, contribution, funding rules, and refund mechanisms.
* **Blockchain**: Stores all data immutably; verifies transactions.