



Transaction recorded in Blockchain







Master SC Master SC Enterprenuer Admin Vendor 1. Admin Registration (A_i) 1. Ent. Registration (Ei) 1. Vendor Registration (V_k) 2. Login Credential 2. Login Credential 2. Login Credential 3. Provide personal info & SHG details 13. Register services 14. Request a service $(<V_k>,<S_1,...,N>)$ 5. Request Ent.(Ei) info 4. Maintain Lookup Table (S_i) at timestamp T 15. Return Vendor_Id 6. Return Ent.(Ei) address (V_k) for (S_i) 7. Permission request for 8. Check for (Data, Ai, Ei) 16. Pay incentives to 17. Generate payment (Data, A_i, E_i) (V_k,S_i) receipts for Si 10. Give permission by giving 9. If true, Return say P Idi of Ei Interaction Id Interaction_Id 18. Return (P_Idi, Ei) 11. Update loan account info & Repayment track record 12. Check repayment of Ei track record & pay 19. Request for expenditure next EMI of E_i 20. Return (P_Idi, Ei)

Lookup Table

Admin_Id(A _i)	$\operatorname{Ent}_{\operatorname{Id}}(E_{j})$	Data	Interaction_Id	Timestamp
0	0	xyz	0xdfg456gh	3567567
1	1	abc	0xghj4567	8765432
2	2	pqr	0xrty45678	987653456