**SOFTWRE DEVELOPMENT DOCUMENT ( GROUP – 6)**

LANGUAGE USED – JAVA

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| **MODULE** | **FUCNTIONALITY** | **OBJECTIVE** | **REMARKS** |
| CIPHER | Hash generator  Private/Public key generator  Digital signature verification | Distributed Hash Table  Digital Signature | TASK 1 |
| THREAD | **DATA STRUCTURES**  Hash Map  Transaction list  **METHODS**  DHT query  DHT Add  Transaction Verification  Two phase transactions  Send V sync-Receive V sync | Store public key  Maintain all input transactions | TASK 1,  TASK 2, TASK 4,  TASK 5, TASK 6 |
| TRANSACTIONS | Format of transactions |  | TASK 3 |
| SIMULATION | Main | Ensuring same transaction list,  Input nodes for transaction,  Maintain thread count | TASK 5 |

**Information Flow Diagram**

DHT result

DHT query

Initiate Transaction

Transaction Result

Initiate DHT

Initiate Transaction

Transaction Result

Transaction Info

User Input

Transaction Broadcast

Virtual Synchrony Broadcast