PROBLEM & PROBLEM UNDERSTANDING

Specify the business problem

Specification of business problem:

The business problem of transparent education data management can be specified as follows:

- Datan Accuracy
- Data Security
- Compliance
- Data Transparency
- Data Integration
- Accessibility

Secure cataloging:

- 1. Block chain platform (ethereum)
- 2. Smart contracts

This ensure that transactions are secure, transparent and tamper-proof

3. Data structure

This stores the library information about ilibrary items

4. Decentralized storage

This ensures content availability and reduces the risk of data loss.

5. Transaction verification

Proof of work, proof of stake can be chosen based on platform

6. User authentication and permission

Public key private key utilization

- 7. Immutable ledger
- 8. Search and retrieval interface
- 9. Audit trail and reporting
- 10. Regular updates and maintenance

Efficient borrowing and returns:

Efficient borrowing and returns of transparent education data management can be achieved through several key strategies:

- **1.** Data Governance
- 2. Data Classification
- 3. Data Security
- **4.** Data Transparency
- **5.** Data Lifecycle Management
- 6. Data Access Controls
- 7. Data Access Controls