TABLE I

Comprehensive Comparison of Supply Chain system using Blockchain

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **System** | Traceability  & transparency | Security | Scability | Real-time  tracking | Hologram  Tag | RFID Integration | NFT Integration | Dynamic & Encrypted QR | IPFS Storage | Cost Efficiency |
| Proposed System | Checkmark | Checkmark | Checkmark | Checkmark | **-** | **-** | Checkmark | Checkmark | Checkmark | Checkmark |
| Islam et al. | **-** | Checkmark | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Tian, F. et al. | Checkmark | Checkmark | **-** | **-** | **-** | Checkmark | **-** | **-** | **-** | **-** |
| Narayanan et al. | Checkmark | **-** | Checkmark | Checkmark | Checkmark | Checkmark | Checkmark | Checkmark | **-** | Checkmark |
| Hasan and Salah | Checkmark | Checkmark | **-** | **-** | Checkmark | **-** | **-** | **-** | **-** | **-** |
| Tajima | Checkmark | **-** | **-** | Checkmark | **-** | Checkmark | **-** | **-** | **-** | **-** |
| Andara et al. | Checkmark | **-** | Checkmark | Checkmark | **-** | **-** | **-** | Checkmark | Checkmark | Checkmark |
| Saberi et al. | Checkmark | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Toyoda et al. | Checkmark | Checkmark | Checkmark | **-** | **-** | Checkmark | **-** | **-** | **-** | Checkmark |
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