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***Submitted To:***

***Uzair Ishtiaq***

***Subject:***

***Software Requirement Engineering***

***Assignment # 3***

***COMSATS University Islamabad, Vehari Campus***

***Requirements Analysis Matrix***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Req NO** | **Requirement Title** | **Clarity** | **Consistency** | **Valid** | **Feasible** |
| 1 | User Authentication | Yes | Yes | Yes | Yes |
| 2 | Account Creation | Yes | Yes | Yes | Yes |
| 3 | Account Balance Inquiry | Yes | Yes | Yes | Yes |
| 4 | Fund Transfer Between Accounts | Yes | Yes | Yes | Yes |
| 5 | Transaction History Display | No | Yes | Yes | No |
| 6 | ATM Integration | Yes | No | Yes | No |
| 7 | Mobile Banking App Support | Yes | Yes | Yes | Yes |
| 8 | Loan Application and Processing | Yes | Yes | Yes | Yes |
| 9 | Interest Calculation | Yes | Yes | Yes | Yes |
| 10 | Customer Support Chat Integration | Yes | Yes | Yes | Yes |
| 11 | Notification for Low Balance | Yes | Yes | Yes | Yes |
| 12 | Fraud Detection and Alert System | Yes | Yes | Yes | No |
| 13 | Credit Card Application | Yes | Yes | Yes | Yes |
| 14 | Bill Payment Integration | Yes | Yes | Yes | Yes |
| 15 | Currency Conversion Tool | Yes | Yes | Yes | No |
| 16 | Budgeting and Expense Tracking | Yes | Yes | Yes | Yes |
| 17 | Data Encryption for Sensitive Information | Yes | Yes | Yes | Yes |

***Requirements Interaction Matrix***

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Req | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 | R16 | R17 |
| R1 | 0 | 1000 | 1000 | 1000 | 0 | 1000 | 1000 | 0 | 0 | 1000 | 1000 | 1000 | 0 | 0 | 0 | 0 | 1000 |
| R2 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R3 | 1000 | 0 | 0 | 1000 | 1000 | 0 | 1000 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 |
| R4 | 1000 | 0 | 1000 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 1000 | 1000 | 0 |
| R5 | 0 | 0 | 1000 | 1000 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 |
| R6 | 1000 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 |
| R7 | 1000 | 0 | 1000 | 0 | 1000 | 1000 | 0 | 0 | 0 | 1000 | 0 | 1000 | 0 | 0 | 0 | 1000 | 0 |
| R8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 1000 | 0 | 0 | 1000 | 0 |
| R9 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R10 | 1000 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 |
| R11 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 |
| R12 | 1000 | 0 | 0 | 1000 | 1000 | 1000 | 1000 | 0 | 0 | 1000 | 1000 | 0 | 0 | 1000 | 0 | 0 | 1000 |
| R13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 |
| R14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 |
| R15 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R16 | 0 | 0 | 1000 | 1000 | 0 | 0 | 1000 | 1000 | 0 | 0 | 0 | 1000 | 1000 | 0 | 0 | 0 | 0 |
| R17 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 |