## *A)* Application/system components from the sample repository

|  |  |
| --- | --- |
| **Class Type** | **Instance Name** |
| A-Actors: | User, Privileged User, Manager, Customer, Editor, Administrator, Security Administrator |
| B-Application Architecture: | Desktop Application, Client Server, Web Based, Multitiered, P2P, Distributed |
| C-Authentication Mechanisms: | User Name Password Authentication, Certificate Authentication, Operating System Authentication(Active Directory, LDAP etc), User Name Password +Captcha Authentication, Iris Scan Biometric Authentication, Retina Scan Biometric Authentication, Fingerprint Biometric Authentication, Facial Recognition Biometric Authentication, Voice Recognition Biometric Authentication, Multi Model Biometric Authentication |
| D-Access Control Mechanisms: | Discretionary Access Control, Rule Based Access Control, Mandatory Access Control, Role Based Access Control,Bell La Padula, Biba, ClarkWilson |
| E-Browser: | IE, Firefox, Google Chrome |
| F-Data: | Health Data, Military Data, Private Sensitive Data, Finance Data, Banking Data, Communication Data |
| G-Database: | SQL Server , Sybase ASE, IBM DB2, Oracle 11g, Mysql 5.1 |
| H-Functionality | Printing and Sealing, Banking and Bookkeeping, Monitoring and Metering, File Upload, Data Export, Data Transfer |
| I-Hardware: | Hard Disk, CD Rom, Main Board |
| J-Language: | C, C++, Java, JavaScript, Perl, C# |
| K-Middleware: | Web Server, Application Server, Proxy Server |
| L-Networks: | LAN- Client Server, LAN- Peer To Peer, WAN, MAN, Storage Area Network, Content Networks, Intranet, Extranet,  Internet,VPN, Wireless, Bluetooth |
| M-Operating Systems: | Windows, Linux, Unix, MAC OS, Android, IOS |
| N-Payment Methods: | One-Time Customer To Vendor , Credit Card Payment, One-Time Customer To Vendor, PayPal Payment, Recurring Customer To Vendor , Credit Card Payment, Automatic Bank To Vendor Payment |
| O-Physical Protection: | Crime Prevention Through Environmental Design, Facility design, Fire safety, Electrical security, HVAC, Perimeter security: fences, gates, lighting, Physical access control, Intrusion detection |
| P-Protocol: | TCP/IP, POP, SMTP, HTTP, FTP, IPV4, IPV6, Application Specific Communication Protocol |
| Q-Regulation: | Health Insurance Portability and Accountability Act –HIPAA, Electric Communications Privacy Act –ECPA, Foreign Intelligence Surveillance Act (FISA), Computer Fraud and Abuse Act (CFAA), Gramm-Leach Bliey Act(GLB)  UK Human Rights Act, The Notion of Privacy in the Data Protection Act, Regulations of Investigatory Powers  Act (Subramanian, IGI, 2008) |
| R-Stakeholders: | Customer, Government, Supplier, Local Community, Competitor, Workers, Shareholders, Manager, Directors, Executive  Directors, Nonexecutive Pressure Groups |
| S-User Interface Devices: | Mouse, Keyboard, Kiosk |
| T-Tags: | Requires Cryptography, Uses Sessions, RPC-Remote Process Call, File I/O, LDAP, DNS Server, Uses Formal Security Audit |