**Functional Requirements for Data Migration**

**Requirements for Data Migration**

**Data quality**

The quality of data in the new system is critical since it influences its correctness, dependability, and usability.

**Data Transfer**

The migration process must successfully transfer all data from the source system to the target system.

**Data Validation**

Check that the transferred data matches the original data to avoid errors, loss, or corruption.

**Mapping Data**

Make certain that every data field in the source system is precisely mapped to its equivalent field in the target system. This covers the adjustments required to align data types, formats, or units.

**Maintain relationships**

Preserve all data linkages, including foreign keys and dependencies, to ensure that data functions properly in the new system.

**Error Handling**

Include techniques for detecting and recovering from migration problems, such as retrying or rolling back.

**Control of User Access**

Make sure that user roles and permissions are taken into consideration during the migration process so that only authorized users can access data both during and after the migration.

**Compliance with Security**

Verify that the data migration procedure complies with all applicable security guidelines and requirements. To safeguard the data during migration, use encryption, secure transfer techniques (such as VPN, SSL), and authentication procedures.

**Monitoring and Reporting**

Throughout the migration process, use technologies for ongoing monitoring to keep tabs on developments and produce reports in real time, guaranteeing openness and shedding light on possible problems.

**References:**

Trotino, G. (2023) *Top 6 requirements for Data Migration Software*, *Delivering Data Products in a Data Fabric & Data Mesh*. Available at: <https://www.k2view.com/blog/data-migration-software>

Giri, B. (2023) *Functional requirements and technical requirements for Migration Projects*, *Medium*. Available at: <https://bgiri-gcloud.medium.com/functional-requirements-and-technical-requirements-for-migration-projects-1b436f02c60d>

Data Migration (2023) *How do you design and implement a data quality framework for your data migration in Azure?*, *How to Design and Implement a Data Quality Framework for Data Migration in Azure*. Available at: <https://www.linkedin.com/advice/0/how-do-you-design-implement-data-quality-framework#:~:text=Data%20quality%20is%20a%20crucial%20aspect%20of,the%20extract%2C%20transform%2C%20and%20load%20(ETL)%20approach>.