Project 1

Database

A relational database is ideal for storing structured data (zip codes, credit card numbers, dates, ID numbers). SQL is a mature technology: they’re well-documented, boast great support, and work well with most modern frameworks and libraries. The brightest examples of SQL databases are [PostgreSQL](https://www.postgresql.org/)and [MySQL](https://www.mysql.com/). Both have proven stable and secure.

Relational databases support access permissions, which define who is allowed to read and edit the database.

Using a relational database management system (RDBMS) protects against data loss and corruption thanks to compliance with ACID properties.

Best For

* Applications where data integrity is essential, like ecommerce, financial apps, defense, security, medical records

Programming Language

The environment in which the program will be used also plays an important part. Programs written at an enterprise level are never stand-alone. Each program becomes part of an even larger goal, so interoperability becomes a factor.

Imagine that an enterprise with its web services implemented in Java code wants to add WebSphere® MQ as a reliable platform. It doesn't make any sense to use the C APIs of WebSphere MQ to write the application; the choice would have to be Java code.