

Table 4.2 Definitions of Nonfunctional Requirements

Nonfunctional Requirement	Definition
Archival	Length of time data needs to be retained within the application; level of difficulty to retrieve archived data (special request to operator, and so on)
Auditability	Ability for this application to show what has happened to it, who did it, and when (audit trail, transaction changes, before/after pictures, and so on); includes requirements for effective dating
Authentication	Security requirement to ensure “you are who you say you are”
Authorization	Security requirement to ensure that users can access only certain functions within the application (by use case, subsystem, Web page, business rule, field-level, and so on)
Availability	24×7 support and 99.999% uptime or better (this would be a very aggressive availability requirement)
Compatibility	Adherence to industry standards for inputs/outputs (XML, ebXML, BPML, and so on)
Configurability	Ability for the end users to change aspects of the software’s configuration easily (through usable user interfaces)
Data integrity	Tolerance for loss, corruption, or duplication of data
Extensibility	Ability to easily incorporate add-on modules (components) of functionality to the application in production
Installability	Ease of system installation on all necessary platforms
Integratability	Ability for this application to easily fit in as part of a larger system (for example, ERP component and others)
Interoperability	APIs (application programming interfaces) required to allow other applications to talk to our application easily. This is unique from <i>compatibility</i> because interoperability is concerned only with the structure and ease of use of the APIs, not the industry standard protocols.
Leverageability/ reuse	Ability to leverage common components across multiple products
Localization	Support for multiple languages (German, Chinese, and so on) on entry/query screens, in data fields; on reports; multi-byte character requirements (such as Kanji and others); also units-of-measure; currencies