REPORT: Quality risk

AUTHOR: Wiktoria Sapota

An application: iMazing (https://imazing.com/)

Information about the software risks

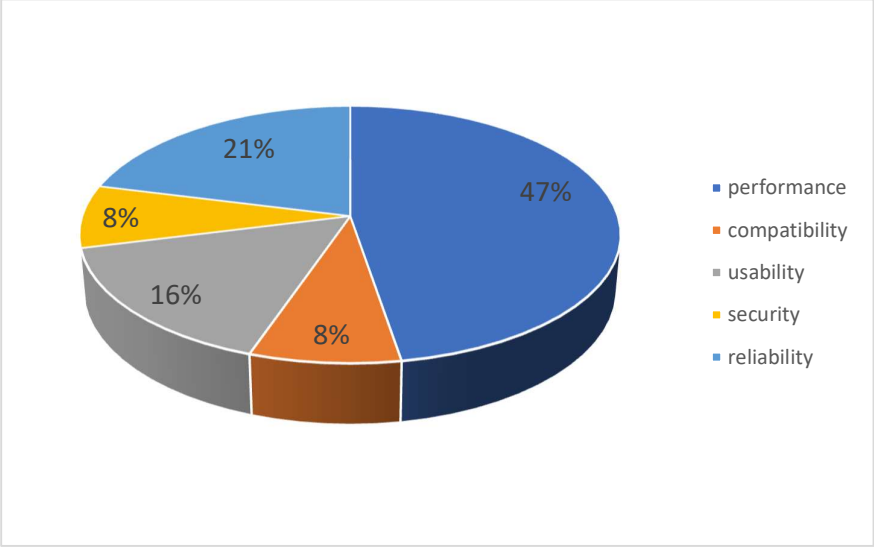
Risk	Category of attributes	P(R)	Justification P(R)
Causing system problems after software installation	Reliability/Stability	low	Installing the software on the system compliant with the manufacturer's requirements shouldn't cause changes or disturbances in a computer work
Problems with software services	Usability	low	Extensive, wide-ranging, and diverse technical support (contact with the help department) as simple and intuitive interface support user in working with a software
Unplanned deletion or loss of data	Reliability/reproducibility	medium	The number of features that allow you to delete data is quite large. The risk may arise if a user hasn't knowledge about some informatical terms and rules of creating backup
Access to data by unauthorized persons	Security/Authentication	medium	iMazing hasn't additional protection to access data by unauthorized users. The only using solution is the blockade of mobile devices
Computer workload	Performance/responsiveness	medium	A transfer data feature may cause significantly computer loaded, particularly at minimal devices resource used
Unplanned change at connected devices	Usability/intuitiveness	low	Understanding base terms in software thematics by a user allows complete control on available features
No support for a devices	Compatibility/Hardware compatibility	low	Adjusting the hardware and software to the producer's requirements include the risk of no obtain devices support (devices compatible with the producer's list)

A long time of data transfer	Performance/capacity	high	This risk is dependent on many factors: technical possibilities, quality of internet connection, the sum of transferred data, a computer loaded by parallel processes. It isn't possible to exclude this risk.
No possibility to execute a process	Performance/Capability	low	A software has specific, elementary features, most of which do not require significant system resources, and with adjusting to a producer's requirements, only the correctness of the source code will affect the implementation of the functionality

	occurrence				
	1	2	3	sum	%
performance	0,5	1	0,3	1,8	47%
compatibility	0,3			0,3	8%
usability	0,3	0,3		0,6	16%
security	0,3			0,3	8%
reliability	0,3	0,5		0,8	21%
			sum	3,8	100%

Risk weight

low: 0,3; medium 0,5; high: 1



Effects of early detection and compensation attempts on testing

The risk analysis allows defining real problems that will affect the comfort of using software and using decisions. In next step possibly is executing appropriate testing and programming actions to exclude or minimalize risk occurrence.

In iMazing, the most risks are related with performance, reliability, and usability. It seems to appropriate refinement a source code (match algorithms), test different device configurations, and finally – detailing the requirements (to avoid the decrease of performance), and making the users aware of possible causes (it was described in Justification: "A long time of data transfer"). Essential is to make sure about additional messages that will secure users before activity execution or immediate (and irreversible) settings at data and devices.