

NaPiRE 2017/18

Project ID 400193

Survey URL <https://ww2.unipark.de/uc/re-survey/>

Date 2018-02-05 08:06:09

List: [1] "NFRClasses", dynamic

Used in questions:

- How do you document each type of non-functional requirements selected in the previous question?

List element no.;Meta information;Assign to list, if;Wildcards

1;Source variable (of the selected source project): v_97 (Compatibility (e.g., co-existence, interoperability));if selected always list element;[1] Compatibility (e.g., co-existence, interoperability)

2;Source variable (of the selected source project): v_98 (Maintainability (e.g., analysability, modularity, modifiability, reusability, testability));if selected always list element;[1] Maintainability (e.g., analysability, modularity, modifiability, reusability, testability)

3;Source variable (of the selected source project): v_99 (Performance efficiency (e.g., time behaviour, resource utilisation, capacity));if selected always list element;[1] Performance efficiency (e.g., time behaviour, resource utilisation, capacity)

4;Source variable (of the selected source project): v_100 (Portability (e.g., adaptability, install ability, replaceability));if selected always list element;[1] Portability (e.g., adaptability, install ability, replaceability)

5;Source variable (of the selected source project): v_101 (Reliability (e.g., availability, fault tolerance, maturity, recoverability));if selected always list element;[1] Reliability (e.g., availability, fault tolerance, maturity, recoverability)

6;Source variable (of the selected source project): v_102 (Safety (e.g. freedom of risk for health or distaster));if selected always list element;[1] Safety (e.g. freedom of risk for health or distaster)

7;Source variable (of the selected source project): v_303 (Security (e.g., accountability, authenticity, confidentiality, integrity, non-repudiation));if selected always list element;[1] Security (e.g., accountability, authenticity, confidentiality, integrity, non-repudiation)

8;Source variable (of the selected source project): v_103 (Usability (e.g., accessibility, appropriateness recognizability, learnability, operability, user error protection, user interface aesthetics));if selected always list element;[1] Usability (e.g., accessibility, appropriateness recognizability, learnability, operability, user error protection, user interface aesthetics)

9;Source variable (of the selected source project): v_104 (Other (please specify));if selected always list element;[1] #v_105#

List: [2] "ProblemSelectionStatic", dynamic

List element no.;Meta information;Assign to list, if;Wildcards

- 1;Source variable (of the selected source project): v_174 (Communication flaws within the project team);if selected always list element;[1] Communication flaws within the project team
- 2;Source variable (of the selected source project): v_175 (Communication flaws between the project and the customer);if selected always list element;[1] Communication flaws between the project and the customer
- 3;Source variable (of the selected source project): v_176 (Terminological problems);if selected always list element;[1] Terminological problems
- 4;Source variable (of the selected source project): v_177 (Incomplete or hidden requirements);if selected always list element;[1] Incomplete or hidden requirements
- 5;Source variable (of the selected source project): v_178 (Insufficient support by project lead);if selected always list element;[1] Insufficient support by project lead
- 6;Source variable (of the selected source project): v_179 (Insufficient support by customer);if selected always list element;[1] Insufficient support by customer
- 7;Source variable (of the selected source project): v_180 (Stakeholders with difficulties in separating requirements from previously known solution designs);if selected always list element;[1] Stakeholders with difficulties in separating requirements from previously known solution designs
- 8;Source variable (of the selected source project): v_181 (Inconsistent requirements);if selected always list element;[1] Inconsistent requirements
- 9;Source variable (of the selected source project): v_182 (Missing traceability);if selected always list element;[1] Missing traceability
- 10;Source variable (of the selected source project): v_183 (Moving targets (changing goals, business processes and / or requirements));if selected always list element;[1] Moving targets (changing goals, business processes and / or requirements)
- 11;Source variable (of the selected source project): v_184 (Gold plating (implementation of features without corresponding requirements));if selected always list element;[1] Gold plating (implementation of features without corresponding requirements)
- 12;Source variable (of the selected source project): v_185 (Weak access to customer needs and / or (internal) business information);if selected always list element;[1] Weak access to customer needs and / or (internal) business information
- 13;Source variable (of the selected source project): v_186 (Weak knowledge about customer's application domain);if selected always list element;[1] Weak knowledge about customer's application domain
- 14;Source variable (of the selected source project): v_187 (Weak relationship between customer and project lead);if selected always list element;[1] Weak relationship between customer and project lead
- 15;Source variable (of the selected source project): v_188 (Time boxing / Not enough time in general);if selected always list element;[1] Time boxing / Not enough time in general
- 16;Source variable (of the selected source project): v_189 (Discrepancy between high degree of innovation and need for formal acceptance of (potentially wrong / incomplete / unknown) requirements);if selected always list element;[1] Discrepancy between high degree of innovation and need for formal acceptance of (potentially wrong / incomplete / unknown) requirements
- 17;Source variable (of the selected source project): v_190 (Technically unfeasible requirements);if selected always list element;[1] Technically unfeasible requirements

18;Source variable (of the selected source project): v_191 (Underspecified requirements that are too abstract and allow for various interpretations);if selected always list element;[1] Underspecified requirements that are too abstract and allow for various interpretations

19;Source variable (of the selected source project): v_192 (Unclear / unmeasurable non-functional requirements);if selected always list element;[1] Unclear / unmeasurable non-functional requirements

20;Source variable (of the selected source project): v_193 (Volatile customer's business domain regarding, e.g., changing points of contact, business processes or requirements);if selected always list element;[1] Volatile customer's business domain regarding, e.g., changing points of contact, business processes or requirements

21;Source variable (of the selected source project): v_246 (Top 1 problem (most critical one)); (1=1);[1] Top 1 problem (most critical one)

22;Source variable (of the selected source project): v_248 (Top 2 problem); (1=1);[1] Top 2 problem

23;Source variable (of the selected source project): v_250 (Top 3 problem); (1=1);[1] Top 3 problem

24;Source variable (of the selected source project): v_252 (Top 4 problem); (1=1);[1] Top 4 problem

25;Source variable (of the selected source project): v_254 (Top 5 problem); (1=1);[1] Top 5 problem

1 Page: System (PGID 2401445)

3 Page: Language Selection (PGID 2420013)

Please select the language (q_4423504 - Type 111)

v_300	v_300	int	Language Selection
	1		English
	2		Español
	3		Português

4 Page: Instructions (PGID 2401449)

5 Page: Metadata (PGID 2401450)

In which country are you personally located? (q_4381600 - Type 131)

v_23	v_23	int	Country Selection
	6		Afghanistan
	7		Albania
	8		Algeria
	9		American Samoa
	10		Andorra
	11		Angola

12	Anguilla
13	Antigua & Barbuda
14	Argentina
15	Armenia
16	Aruba
17	Australia
18	Austria
19	Azerbaijan
20	Bahamas, The
21	Bahrain
22	Bangladesh
23	Barbados
24	Belarus
25	Belgium
26	Belize
27	Benin
28	Bermuda
29	Bhutan
30	Bolivia
31	Bosnia & Herzegovina
32	Botswana
33	Brazil
34	British Virgin Is.
35	Brunei
36	Bulgaria
37	Burkina Faso
38	Burma
39	Burundi
40	Cambodia
41	Cameroon
42	Canada
43	Cape Verde
44	Cayman Islands
45	Central African Rep.
46	Chad
47	Chile
48	China
49	Colombia
50	Comoros
51	Congo, Dem. Rep.
52	Congo, Repub. of the
53	Cook Islands
54	Costa Rica
55	Cote d'Ivoire
56	Croatia
57	Cuba
58	Cyprus
59	Czech Republic

60	Denmark
61	Djibouti
62	Dominica
63	Dominican Republic
64	East Timor
65	Ecuador
66	Egypt
67	El Salvador
68	Equatorial Guinea
69	Eritrea
70	Estonia
71	Ethiopia
72	Faroe Islands
73	Fiji
74	Finland
75	France
76	French Guiana
77	French Polynesia
78	Gabon
79	Gambia, The
80	Gaza Strip
81	Georgia
82	Germany
83	Ghana
84	Gibraltar
85	Greece
86	Greenland
87	Grenada
88	Guadeloupe
89	Guam
90	Guatemala
91	Guernsey
92	Guinea
93	Guinea-Bissau
94	Guyana
95	Haiti
96	Honduras
97	Hong Kong
98	Hungary
99	Iceland
100	India
101	Indonesia
102	Iran
103	Iraq
104	Ireland
105	Isle of Man
106	Israel
107	Italy

108	Jamaica
109	Japan
110	Jersey
111	Jordan
112	Kazakhstan
113	Kenya
114	Kiribati
115	Korea, North
116	Korea, South
117	Kuwait
118	Kyrgyzstan
119	Laos
120	Latvia
121	Lebanon
122	Lesotho
123	Liberia
124	Libya
125	Liechtenstein
126	Lithuania
127	Luxembourg
128	Macau
129	Macedonia
130	Madagascar
131	Malawi
132	Malaysia
133	Maldives
134	Mali
135	Malta
136	Marshall Islands
137	Martinique
138	Mauritania
139	Mauritius
140	Mayotte
141	Mexico
142	Micronesia, Fed. St.
143	Moldova
144	Monaco
145	Mongolia
146	Montserrat
147	Morocco
148	Mozambique
149	Namibia
150	Nauru
151	Nepal
152	Netherlands
153	Netherlands Antilles
154	New Caledonia
155	New Zealand

156	Nicaragua
157	Niger
158	Nigeria
159	N. Mariana Islands
160	Norway
161	Oman
162	Pakistan
163	Palau
164	Panama
165	Papua New Guinea
166	Paraguay
167	Peru
168	Philippines
169	Poland
170	Portugal
171	Puerto Rico
172	Qatar
173	Reunion
174	Romania
175	Russia
176	Rwanda
177	Saint Helena
178	Saint Kitts & Nevis
179	Saint Lucia
180	St Pierre & Miquelon
181	Saint Vincent and the Grenadines
182	Samoa
183	San Marino
184	Sao Tome & Principe
185	Saudi Arabia
186	Senegal
187	Serbia
188	Seychelles
189	Sierra Leone
190	Singapore
191	Slovakia
192	Slovenia
193	Solomon Islands
194	Somalia
195	South Africa
196	Spain
197	Sri Lanka
198	Sudan
199	Suriname
200	Swaziland
201	Sweden
202	Switzerland
203	Syria

204	Taiwan
205	Tajikistan
206	Tanzania
207	Thailand
208	Togo
209	Tonga
210	Trinidad & Tobago
211	Tunisia
212	Turkey
213	Turkmenistan
214	Turks & Caicos Is
215	Tuvalu
216	Uganda
217	Ukraine
218	United Arab Emirates
219	United Kingdom
220	United States
221	Uruguay
222	Uzbekistan
223	Vanuatu
224	Venezuela
225	Vietnam
226	Virgin Islands
227	Wallis and Futuna
228	West Bank
229	Western Sahara
230	Yemen
231	Zambia
232	Zimbabwe
233	- Please select a country -

How many people are involved in your project? (q_4381425 - Type 141)

v_3	v_3	varchar	Team Size
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Please select the main industrial sector of your project and the application domain of the software you build. (q_4381417 - Type 111)

v_1	v_1	int	Sector
		1	Agriculture
		2	Automotive
		3	Finance
		4	Healthcare
		5	Security
		6	Manufacturing
		7	Energy
		8	Logistics
		9	Railway

		10	Avionics
		12	Insurance
		13	Education
		14	Public sector
		15	Enterprise resource planning
		16	Human resources
		17	e-Government
		18	Telecommunication
		19	Games engineering
		20	Public transportation
		21	e-Commerce
		22	Other (please specify)
v_2	v_2	varchar	Other (please specify)

Please select the class of systems or services you work on in the context of your project.

(q_4381429 - Type 111)

v_4	v_4	int	System Class
		1	Software-intensive embedded systems
		2	Business information systems
		3	Hybrid of both software-intensive embedded systems and business information systems
		6	Other (please specify)
v_5	v_5	varchar	Other (please specify)

Are there quality attributes which are of particularly high importance for your development project? If yes, which one(s)? (q_4381437 - Type 121)

v_6	v_6	int	Compatibility (e.g., co-existence, interoperability)
		0	not quoted
		1	quoted
v_7	v_7	int	Maintainability (e.g., analysability, modularity, modifiability, reusability, testability)
		0	not quoted
		1	quoted
v_8	v_8	int	Performance efficiency (e.g., time behaviour, resource utilisation, capacity)
		0	not quoted
		1	quoted
v_9	v_9	int	Portability (e.g., adaptability, installability, replaceability)
		0	not quoted
		1	quoted
v_10	v_10	int	Reliability (e.g., availability, faulty tolerance, maturity, recoverability)
		0	not quoted
		1	quoted
v_11	v_11	int	Security (e.g., accountability, authenticity, confidentiality, integrity, non-repudiation)
		0	not quoted

		1	quoted
v_12	v_12	int	Safety (e.g., freedom of risk for health or disaster)
		0	not quoted
		1	quoted
v_13	v_13	int	Usability (e.g., accessibility, appropriateness recognisability, learnability, operability, user error protection, user interface aesthetics)
		0	not quoted
		1	quoted
v_14	v_14	int	Other
		0	not quoted
		1	quoted
v_15	v_15	varchar	Other

Is your project distributed? (q_4381446 - Type 111)

v_16	v_16	int	Team Distribution
		1	Yes
		2	No
		3	I don't know

What is the main role you occupy in your project? (q_4381479 - Type 111)

v_17	v_17	int	Main Role Respondent
		1	Business Analyst
		2	Customer
		3	Developer
		4	Project Lead / Project Manager
		5	Product Owner
		6	Product Manager
		7	Scrum Master
		8	Architect
		9	Test Manager / Tester
		10	Marketing
		11	Requirements Engineer
		12	Other (please specify)
v_18	v_18	varchar	Other (please specify)

How many years of industrial experience do you have in your role? (q_4381538 - Type 141)

v_19	v_19	varchar	Experience Respondent
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Do you have a certification in this role? If yes, which one? (q_4381564 - Type 141)

v_20	v_20	varchar	Certification Role Respondent
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Which organisational role does your project team have in your project? (q_4381566 - Type 111)

v_21	v_21	int	Organisational Role Team
		1	Customer
		2	Main contractor (main responsible for the development project)
		3	Sub-contractor (responsible for part of a larger development project)
		4	In-house development
		6	Other (please specify)
v_22	v_22	varchar	Other (please specify)

How would you personally characterise your way of working in your project? (q_4382041 - Type 111)

v_24	v_24	int	Characterisation Way of Working
		1	Agile
		2	Rather agile
		3	Hybrid
		4	Rather plan-driven
		5	Plan-driven

In general, how would you rate the relationship between your project team and your customer? (q_4382042 - Type 111)

v_25	v_25	int	Characterisation Relationship Customer
		1	Very good
		2	Good
		3	neutral
		4	Bad
		5	Very bad

6 Page: Filter Customer Relationship (PGID 2403398)

Filter

not	v_25	Characterisation Relationship Customer	In general, how would you rate the relationship between your project team and your customer? - Characterisation Relationship Customer	greater1
or not	v_25	Characterisation Relationship Customer	In general, how would you rate the relationship between your project team and your customer? - Characterisation Relationship Customer	less 5

6.1 Page: Relationship Customer (PGID 2401918)

Question will not be seen if :

v_25	Characterisation Relationship Customer	In general, how would you rate the relationship between your project team and your customer? - Characterisation Relationship Customer	less 5
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In your opinion, what is the reason for the particularly bad relationship? (q_4382069 - Type 142)

v_26 v_26 blob Reason Bad Relationship

Question will not be seen if :

v_25 Characterisation Relationship Customer In general, how would you rate the relationship between your project team and your customer? - Characterisation Relationship Customer greater1

In your opinion, what is the reason for the particularly good relationship? (q_4382070 - Type 142)

v_27 v_27 blob Reason Good Relationship

7 Page: Requirements Elicitation (PGID 2401451)

How are the requirements elicited in your project? (q_4382093 - Type 121)

v_28 v_28 int We elicit and / or refine requirements in several iterations
0 not quoted

1 quoted

v_29 v_29 int We elicit and / or refine requirements in a specifically dedicated project phase

0 not quoted

1 quoted

v_34 v_34 int Other (please specify)

0 not quoted

1 quoted

v_35 v_35 varchar Other (please specify)

Which techniques do you use for your requirements elicitations? (q_4382121 - Type 121)

v_36 v_36 int Interviews
0 not quoted

1 quoted

v_37 v_37 int Analysis of existing documents

0 not quoted

1 quoted

v_38 v_38 int Risk analyses

0 not quoted

1 quoted

v_39 v_39 int Prototyping

0 not quoted

1 quoted

v_40 v_40 int Workshops and focus groups

		0	not quoted
		1	quoted
v_41	v_41	int	(Requirements) Reuse databases and guidelines
		0	not quoted
		1	quoted
v_42	v_42	int	Design Thinking / Lean Startup
		0	not quoted
		1	quoted
v_43	v_43	int	External experts
		0	not quoted
		1	quoted
v_44	v_44	int	Observations
		0	not quoted
		1	quoted
v_47	v_47	int	We do not elicit requirements (ourselves)
		0	not quoted
		1	quoted
v_45	v_45	int	Other
		0	not quoted
		1	quoted
v_46	v_46	varchar	Other

Who has the primary responsibility for eliciting requirements? (q_4382226 - Type 111)

v_51	v_51	int	Primary Responsibility Requirements Elicitation
		1	Marketing
		2	Business Analyst
		3	Requirements Engineer
		4	Project Lead / Project Manager
		5	Scrum Master
		6	Product Owner
		7	Product Manager
		8	Architect
		9	Developer
		10	Customer
		12	Other
		13	Nobody has the primary responsibility
v_52	v_52	varchar	Other

8 Page: Documentation Entry (PGID 2403254)

At what level of granularity do you document requirements, and when? (q_4384356 - Type 111)

v_59	v_59	int	Documentation Granularity
		1	We document detailed requirements at the beginning of the project.

2 We document high-level requirements at beginning of the project and refine them to detailed requirements when needed (for instance, we document epics and refine them to user stories for the sprints).

3 We do not document requirements.

4 Other (please specify)

v_60 v_60 varchar Other (please specify)

9 Page: Filter Documentation (PGID 2403672)

Filter

v_59 Documentation Granularity At what level of granularity do you document requirements, and when? - Documentation Granularity unequal 3

9.1 Page: Requirements Documentation (PGID 2401452)

How do you make use of the documented requirements? (q_4384361 - Type 121)

v_61 v_61 int They are the basis for the implementation.

0 not quoted

1 quoted

v_62 v_62 int They are source for tests.

0 not quoted

1 quoted

v_63 v_63 int They are used in customer acceptance.

0 not quoted

1 quoted

v_64 v_64 int They are part of the contract.

0 not quoted

1 quoted

v_65 v_65 int They are a reminder for further discussions with the customer, product owner, and / or other team members

0 not quoted

1 quoted

v_66 v_66 int Other (please specify)

0 not quoted

1 quoted

v_67 v_67 varchar Other (please specify)

For which information do you make an explicit distinction when documenting your requirements? (q_4384445 - Type 121)

v_76 v_76 int Architectural constraints

0 not quoted

1 quoted

v_73 v_73 int Development process aspects

0 not quoted

		1	quoted
v_79	v_79	int	Formal properties
		0	not quoted
		1	quoted
v_68	v_68	int	Functional properties of the system
		0	not quoted
		1	quoted
v_70	v_70	int	Goals
		0	not quoted
		1	quoted
v_71	v_71	int	Quality properties
		0	not quoted
		1	quoted
v_74	v_74	int	Rules (e.g., business rules)
		0	not quoted
		1	quoted
v_78	v_78	int	Stakeholders
		0	not quoted
		1	quoted
v_77	v_77	int	System behaviour
		0	not quoted
		1	quoted
v_75	v_75	int	Technical interfaces
		0	not quoted
		1	quoted
v_69	v_69	int	Usage scenarios
		0	not quoted
		1	quoted
v_72	v_72	int	User interface(s)
		0	not quoted
		1	quoted
v_80	v_80	int	Other (please specify)
		0	not quoted
		1	quoted
v_81	v_81	varchar	Other (please specify)

How do you document requirements? (q_4384461 - Type 121)

v_87	v_87	int	Activity diagrams
		0	not quoted
		1	quoted
v_92	v_92	int	Business process models
		0	not quoted
		1	quoted
v_88	v_88	int	Class diagrams
		0	not quoted
		1	quoted
v_91	v_91	int	Goal models

		0	not quoted
		1	quoted
v_83	v_83	int	Natural language / informal (plain) text
		0	not quoted
		1	quoted
v_93	v_93	int	Prototypes / User screens
		0	not quoted
		1	quoted
v_89	v_89	int	Sequence diagrams
		0	not quoted
		1	quoted
v_94	v_94	int	Sketches
		0	not quoted
		1	quoted
v_90	v_90	int	State machines
		0	not quoted
		1	quoted
v_84	v_84	int	Structured lists of requirements
		0	not quoted
		1	quoted
v_86	v_86	int	Use case diagrams
		0	not quoted
		1	quoted
v_82	v_82	int	Use cases
		0	not quoted
		1	quoted
v_85	v_85	int	User stories
		0	not quoted
		1	quoted
v_95	v_95	int	Other (please specify)
		0	not quoted
		1	quoted
v_96	v_96	varchar	Other (please specify)

Which classes of non-functional requirements do you explicitly consider in your requirements documentation? (q_4384473 - Type 121)

v_97	v_97	int	Compatibility (e.g., co-existence, interoperability)
		0	not quoted
		1	quoted
v_98	v_98	int	Maintainability (e.g., analysability, modularity, modifiability, reusability, testability)
		0	not quoted
		1	quoted
v_99	v_99	int	Performance efficiency (e.g., time behaviour, resource utilisation, capacity)
		0	not quoted
		1	quoted

v_100	v_100	int	Portability (e.g., adaptability, install ability, replaceability)
		0	not quoted
		1	quoted
v_101	v_101	int	Reliability (e.g., availability, fault tolerance, maturity, recoverability)
		0	not quoted
		1	quoted
v_102	v_102	int	Safety (e.g. freedom of risk for health or distaster)
		0	not quoted
		1	quoted
v_303	v_303	int	Security (e.g., accountability, authenticity, confidentiality, integrity, non-repudiation)
		0	not quoted
		1	quoted
v_103	v_103	int	Usability (e.g., accessibility, appropriateness recognizability, learnability, operability, user error protection, user interface aesthetics)
		0	not quoted
		1	quoted
v_104	v_104	int	Other (please specify)
		0	not quoted
		1	quoted
v_105	v_105	varchar	Other (please specify)

10 Page: Filter NFR (PGID 2403647)

Filter

v_97 Compatibility (e.g., co-existence, interoperability) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Compatibility (e.g., co-existence, interoperability) equal 1

or v_98 Maintainability (e.g., analysability, modularity, modifiability, reusability, testability) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Maintainability (e.g., analysability, modularity, modifiability, reusability, testability) equal 1

or v_99 Performance efficiency (e.g., time behaviour, resource utilisation, capacity) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Performance efficiency (e.g., time behaviour, resource utilisation, capacity) equal 1

or v_100 Portability (e.g., adaptability, install ability, replaceability) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Portability (e.g., adaptability, install ability, replaceability) equal 1

or v_101 Reliability (e.g., availability, fault tolerance, maturity, recoverability) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Reliability (e.g., availability, fault tolerance, maturity, recoverability) equal 1

or v_102 Safety (e.g. freedom of risk for health or distaster) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Safety (e.g. freedom of risk for health or distaster) equal 1

or v_103 Usability (e.g., accessibility, appropriateness recognizability, learnability, operability, user error protection, user interface aesthetics) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Usability (e.g., accessibility, appropriateness recognizability, learnability, operability, user error protection, user interface aesthetics) equal 1

or v_104 Other (please specify) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Other (please specify) equal 1

or v_303 Security (e.g., accountability, authenticity, confidentiality, integrity, non-repudiation) Which classes of non-functional requirements do you explicitly consider in your requirements documentation? - Security (e.g., accountability, authenticity, confidentiality, integrity, non-repudiation) equal 1

10.1 Page: Documentation NFR (PGID 2403284)

How do you document each type of non-functional requirements selected in the previous question? (q_4384526 - Type 143)

v_343 v_343 varchar List element: Compatibility (e.g., co-existence, interoperability) (Source variable (of the selected source project): v_97 (Compatibility (e.g., co-existence, interoperability)))

v_344 v_344 varchar List element: Maintainability (e.g., analysability, modularity, modifiability, reusability, testability) (Source variable (of the selected source project): v_98 (Maintainability (e.g., analysability, modularity, modifiability, reusability, testability)))

v_345 v_345 varchar List element: Performance efficiency (e.g., time behaviour, resource utilisation, capacity) (Source variable (of the selected source project): v_99 (Performance efficiency (e.g., time behaviour, resource utilisation, capacity)))

v_346 v_346 varchar List element: Portability (e.g., adaptability, install ability, replaceability) (Source variable (of the selected source project): v_100 (Portability (e.g., adaptability, install ability, replaceability)))

v_347 v_347 varchar List element: Reliability (e.g., availability, fault tolerance, maturity, recoverability) (Source variable (of the selected source project): v_101 (Reliability (e.g., availability, fault tolerance, maturity, recoverability)))

v_348 v_348 varchar List element: Safety (e.g. freedom of risk for health or disaster) (Source variable (of the selected source project): v_102 (Safety (e.g. freedom of risk for health or disaster)))

v_349 v_349 varchar List element: Security (e.g., accountability, authenticity, confidentiality, integrity, non-repudiation) (Source variable (of the selected source project): v_303 (Security (e.g., accountability, authenticity, confidentiality, integrity, non-repudiation)))

v_350 v_350 varchar List element: Usability (e.g., accessibility, appropriateness recognizability, learnability, operability, user error protection, user interface aesthetics) (Source variable (of the selected source project): v_103 (Usability (e.g., accessibility, appropriateness recognizability, learnability, operability, user error protection, user interface aesthetics)))

v_351 v_351 varchar List element: #v_105# (Source variable (of the selected source project): v_104 (Other (please specify)))

11 Page: Requirements Validation (PGID 2401453)

How do you verify and / or validate your requirements? (q_4384499 - Type 121)

v_110	v_110	int	Automatic checking
	0		not quoted
	1		quoted
v_108	v_108	int	Informal peer reviews
	0		not quoted
	1		quoted
v_106	v_106	int	Inspections (formal technical reviews using reading techniques or checklists)
	0		not quoted
	1		quoted
v_109	v_109	int	Simulations
	0		not quoted
	1		quoted
v_107	v_107	int	Walkthroughs
	0		not quoted
	1		quoted
v_111	v_111	int	We do not verify and / or validate our requirements
	0		not quoted
	1		quoted
v_112	v_112	int	Other (please specify)
	0		not quoted
	1		quoted
v_113	v_113	varchar	Other (please specify)

How do you align software testing with requirements? (q_4386276 - Type 121)

v_158	v_158	int	Testers participate in requirements reviews.
	0		not quoted
	1		quoted
v_159	v_159	int	We check the coverage of requirements with tests.
	0		not quoted
	1		quoted
v_160	v_160	int	We define acceptance criteria and tests for requirements.
	0		not quoted
	1		quoted
v_161	v_161	int	We derive tests from system models.
	0		not quoted
	1		quoted
v_162	v_162	int	We do not align tests and requirements.
	0		not quoted
	1		quoted
v_163	v_163	int	Other (please specify)
	0		not quoted
	1		quoted

v_164 v_164 varchar Other (please specify)

12 Page: Requirements Management (PGID 2401454)

How do you deal with changing requirements after the initial release of the system (or parts of it)? (q_4386278 - Type 111)

v_165 v_165 int Requirements Changes

1	We work with change requests, but do not further update our requirements specification once formally accepted.
2	We update our product backlog.
3	We work with change requests and continuously update our requirements specification accordingly also after formally accepted.
4	Other (please specify)
5	We don't update our requirements (documentation) at all.

v_166 v_166 varchar Other (please specify)

13 Page: Satisfaction RE (PGID 2401455)

Right now, how satisfied are you with how requirements engineering is done in your project? (q_4386283 - Type 111)

v_167 v_167 int Satisfaction RE

1	Very dissatisfied
2	Dissatisfied
3	Neither dissatisfied nor satisfied
4	Satisfied
5	Very satisfied

14 Page: Filter Dissatisfaction (PGID 2404980)

Filter

v_167 Satisfaction RE Right now, how satisfied are you with how requirements engineering is done in your project? - Satisfaction RE equal 1

or v_167 Satisfaction RE Right now, how satisfied are you with how requirements engineering is done in your project? - Satisfaction RE equal 2

14.1 Page: RE Dissatisfaction (PGID 2404981)

Why are you rather dissatisfied with how requirements engineering is done in your project? (q_4386342 - Type 142)

v_168 v_168 blob Reasons Dissatisfaction

What are the consequences of the dissatisfying requirements engineering? (q_4386344 - Type 142)

v_170 v_170 blob Consequences Dissatisfying RE

What should change in your requirements engineering in order to make it satisfying? (q_4386345 - Type 142)

v_171 v_171 blob Necessary Change in RE

15 Page: Filter Satisfaction (PGID 2404982)

Filter

v_167 Satisfaction RE Right now, how satisfied are you with how requirements engineering is done in your project? - Satisfaction RE equal 4

or v_167 Satisfaction RE Right now, how satisfied are you with how requirements engineering is done in your project? - Satisfaction RE equal 5

15.1 Page: RE Satisfaction (PGID 2404996)

Why are you rather satisfied with how requirements engineering is done in your project? (q_4386343 - Type 142)

v_169 v_169 blob Reasons Satisfaction

What are the consequences of the satisfying requirements engineering? (q_4386346 - Type 142)

v_172 v_172 blob Consequences Satisfying RE

At some point in the past, you were likely not fully satisfied with your project's requirements engineering. If anything, what happened to make you satisfied? (q_4386347 - Type 142)

v_173 v_173 blob Past Changes in RE

16 Page: RE Problems (PGID 2405011)

Considering your personal experiences, how do the following problems in requirements engineering apply to your project? (q_4386791 - Type 341)

v_174 v_174 int Communication flaws within the project team

- 1 Does not apply at all
- 2 Does rather not apply
- 3 Neutral
- 4 Rather applies

	5	Strongly applies
v_175 v_175	int	Communication flaws between the project and the customer
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_176 v_176	int	Terminological problems
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_177 v_177	int	Incomplete or hidden requirements
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_178 v_178	int	Insufficient support by project lead
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_179 v_179	int	Insufficient support by customer
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_180 v_180	int	Stakeholders with difficulties in separating requirements from previously known solution designs
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_181 v_181	int	Inconsistent requirements
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_182 v_182	int	Missing traceability
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral

	4	Rather applies
	5	Strongly applies
v_183 v_183 int		Moving targets (changing goals, business processes and / or requirements)
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_184 v_184 int		Gold plating (implementation of features without corresponding requirements)
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_185 v_185 int		Weak access to customer needs and / or (internal) business information
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_186 v_186 int		Weak knowledge about customer's application domain
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_187 v_187 int		Weak relationship between customer and project lead
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_188 v_188 int		Time boxing / Not enough time in general
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies
v_189 v_189 int		Discrepancy between high degree of innovation and need for formal acceptance of (potentially wrong / incomplete / unknown) requirements
	1	Does not apply at all
	2	Does rather not apply
	3	Neutral
	4	Rather applies
	5	Strongly applies

v_190	v_190	int	Technically unfeasible requirements
	1		Does not apply at all
	2		Does rather not apply
	3		Neutral
	4		Rather applies
	5		Strongly applies
v_191	v_191	int	Underspecified requirements that are too abstract and allow for various interpretations
	1		Does not apply at all
	2		Does rather not apply
	3		Neutral
	4		Rather applies
	5		Strongly applies
v_192	v_192	int	Unclear / unmeasurable non-functional requirements
	1		Does not apply at all
	2		Does rather not apply
	3		Neutral
	4		Rather applies
	5		Strongly applies
v_193	v_193	int	Volatile customer's business domain regarding, e.g., changing points of contact, business processes or requirements
	1		Does not apply at all
	2		Does rather not apply
	3		Neutral
	4		Rather applies
	5		Strongly applies

17 Page: Critical RE Problems (PGID 2405407)

Considering your personally experienced problems stated in the previous question, which ones would you classify as the five most critical ones? (q_4388468 - Type 361)

v_246	v_246	int	Top 1 problem (most critical one) (Problem experienced in your project:)
	215651		
	0		Please make a selection
	1		Communication flaws within the project team
	2		Communication flaws between the project and the customer
	3		Terminological problems
	4		Incomplete or hidden requirements
	5		Insufficient support by project lead
	6		Insufficient support by customer
	7		Stakeholders with difficulties in separating requirements from previously known solution designs
	8		Inconsistent requirements
	9		Missing traceability
	10		Moving targets (changing goals, business processes and / or requirements)

	11	Gold plating (implementation of features without corresponding requirements)
information	12	Weak access to customer needs and / or (internal) business
	13	Weak knowledge about customer's application domain
	14	Weak relationship between customer and project lead
	15	Time boxing / Not enough time in general
acceptance of (potentially wrong / incomplete / unknown) requirements	16	Discrepancy between high degree of innovation and need for formal
	17	Technically unfeasible requirements
various interpretations	18	Underspecified requirements that are too abstract and allow for
	19	Unclear / unmeasurable non-functional requirements
of contact, business processes or requirements	20	Volatile customer's business domain regarding, e.g., changing points
v_248 v_248 int		Top 2 problem (Problem experienced in your project:) 215651
	0	Please make a selection
	1	Communication flaws within the project team
	2	Communication flaws between the project and the customer
	3	Terminological problems
	4	Incomplete or hidden requirements
	5	Insufficient support by project lead
	6	Insufficient support by customer
previously known solution designs	7	Stakeholders with difficulties in separating requirements from
	8	Inconsistent requirements
	9	Missing traceability
requirements)	10	Moving targets (changing goals, business processes and / or
requirements)	11	Gold plating (implementation of features without corresponding
information	12	Weak access to customer needs and / or (internal) business
	13	Weak knowledge about customer's application domain
	14	Weak relationship between customer and project lead
	15	Time boxing / Not enough time in general
acceptance of (potentially wrong / incomplete / unknown) requirements	16	Discrepancy between high degree of innovation and need for formal
	17	Technically unfeasible requirements
various interpretations	18	Underspecified requirements that are too abstract and allow for
	19	Unclear / unmeasurable non-functional requirements
of contact, business processes or requirements	20	Volatile customer's business domain regarding, e.g., changing points
v_250 v_250 int		Top 3 problem (Problem experienced in your project:) 215651
	0	Please make a selection
	1	Communication flaws within the project team
	2	Communication flaws between the project and the customer

	3	Terminological problems
	4	Incomplete or hidden requirements
	5	Insufficient support by project lead
	6	Insufficient support by customer
	7	Stakeholders with difficulties in separating requirements from
previously known solution designs		
	8	Inconsistent requirements
	9	Missing traceability
	10	Moving targets (changing goals, business processes and / or
requirements)		
	11	Gold plating (implementation of features without corresponding
requirements)		
	12	Weak access to customer needs and / or (internal) business
information		
	13	Weak knowledge about customer's application domain
	14	Weak relationship between customer and project lead
	15	Time boxing / Not enough time in general
	16	Discrepancy between high degree of innovation and need for formal
acceptance of (potentially wrong / incomplete / unknown) requirements		
	17	Technically unfeasible requirements
	18	Underspecified requirements that are too abstract and allow for
various interpretations		
	19	Unclear / unmeasurable non-functional requirements
	20	Volatile customer's business domain regarding, e.g., changing points
of contact, business processes or requirements		
v_252 v_252 int		Top 4 problem (Problem experienced in your project:) 215651
	0	Please make a selection
	1	Communication flaws within the project team
	2	Communication flaws between the project and the customer
	3	Terminological problems
	4	Incomplete or hidden requirements
	5	Insufficient support by project lead
	6	Insufficient support by customer
	7	Stakeholders with difficulties in separating requirements from
previously known solution designs		
	8	Inconsistent requirements
	9	Missing traceability
	10	Moving targets (changing goals, business processes and / or
requirements)		
	11	Gold plating (implementation of features without corresponding
requirements)		
	12	Weak access to customer needs and / or (internal) business
information		
	13	Weak knowledge about customer's application domain
	14	Weak relationship between customer and project lead
	15	Time boxing / Not enough time in general
	16	Discrepancy between high degree of innovation and need for formal
acceptance of (potentially wrong / incomplete / unknown) requirements		

	17	Technically unfeasible requirements	
various interpretations	18	Underspecified requirements that are too abstract and allow for	
	19	Unclear / unmeasurable non-functional requirements	
of contact, business processes or requirements	20	Volatile customer's business domain regarding, e.g., changing points	
v_254 v_254 int		Top 5 problem (Problem experienced in your project:)	215651
	0	Please make a selection	
	1	Communication flaws within the project team	
	2	Communication flaws between the project and the customer	
	3	Terminological problems	
	4	Incomplete or hidden requirements	
	5	Insufficient support by project lead	
	6	Insufficient support by customer	
previously known solution designs	7	Stakeholders with difficulties in separating requirements from	
	8	Inconsistent requirements	
	9	Missing traceability	
requirements)	10	Moving targets (changing goals, business processes and / or	
requirements)	11	Gold plating (implementation of features without corresponding	
information	12	Weak access to customer needs and / or (internal) business	
	13	Weak knowledge about customer's application domain	
	14	Weak relationship between customer and project lead	
	15	Time boxing / Not enough time in general	
acceptance of (potentially wrong / incomplete / unknown) requirements	16	Discrepancy between high degree of innovation and need for formal	
	17	Technically unfeasible requirements	
various interpretations	18	Underspecified requirements that are too abstract and allow for	
	19	Unclear / unmeasurable non-functional requirements	
of contact, business processes or requirements	20	Volatile customer's business domain regarding, e.g., changing points	

18 Page: Problems Causes Effects (PGID 2406406)

Considering your personally experienced most critical problems selected in the previous question, which causes do they have? (q_4388846 - Type 143)

v_277 v_277 varchar	#v_246#
	^ hide if : ((v_246 = '0'))
v_278 v_278 varchar	#v_248#
	^ hide if : ((v_248 = '0'))
v_279 v_279 varchar	#v_250#
	^ hide if : ((v_250 = '0'))

v_280 v_280 varchar #v_252#
 ^ hide if : ((v_252 = '0'))
 v_281 v_281 varchar #v_254#
 ^ hide if : ((v_254 = '0'))

Considering your personally experienced most critical problems selected in the previous question, which implications do they have? (q_4388903 - Type 143)

v_282 v_282 varchar #v_246#
 ^ hide if : ((v_246 = '0'))
 v_283 v_283 varchar #v_248#
 ^ hide if : ((v_248 = '0'))
 v_284 v_284 varchar #v_250#
 ^ hide if : ((v_250 = '0'))
 v_285 v_285 varchar #v_252#
 ^ hide if : ((v_252 = '0'))
 v_286 v_286 varchar #v_254#
 ^ hide if : ((v_254 = '0'))

Besides the problems listed in the previous questions, is there another prominent problem you experienced in your project? If so, which one? (q_4386921 - Type 142)

v_194 v_194 blob Further Problem

19 Page: Conclusion (PGID 2406658)

Is there any other unaddressed aspect that you experience in your RE process and that you would like to share with us? (q_4389544 - Type 142)

v_297 v_297 blob Further Remarks

In case you would like to be notified about the results, please fill in your email-address. (q_4389546 - Type 141)

v_298 v_298 varchar (with type check: E-mail address) Email

In principle, would you be willing to serve as an interview partner in the future for follow-up questions? (q_4389548 - Type 111)

v_299 v_299 int Participation Interview
 1 Yes
 2 No

Survey variables

Variable name Code notation

language - Language

1	English
2	ES
3	PT
status -	Disposition code
11	Not yet invited
12	Invited
16	Reserved 1
17	Reserved 2
13	Inactive
14	E-mail could not be delivered
15	Cannot be reached
18	Custom unavailable 1
19	Custom unavailable 2
20	Not yet started
21	Currently responding
22	Suspended
23	Resumed
31	Completed
32	Completed after break
33	Custom completed 1
34	Custom completed 2
35	Rejected at login (quota full)
36	Rejected (quota full)
37	Screened out
38	Custom screen out 1
39	Custom screen out 2
40	Custom screen out 3
41	Quota full
date_of_first_access -	Date of first access
date_of_last_access -	Date of last access
date_of_first_mail -	Date of first mail
user_agent -	Browser identification
http_referer -	http_referer
device_type -	Desktop / mobile
0	desktop
1	mobile