Generation of Functional User Requirements from Functional User Reviews

Functional User Review Patterns in EBNF to Functional Requirement Boilerplates Mapping

No.	Review Pattern Code	Functional User Review Pattern	Requirement Boilerplate Code
1.	RP01	*rp-01 <= someone* ("could" | "should") ("add" | "provide" | "offer" | "integrate")^{Activity} *something*^{Target};	RB01, RB05, RB06
2.	RP02	*rp-02 <= someone* "would love to" ("see" | "use"^{Activity}) *something*^{Target};	RB04, RB05
3.	RP03	*rp-03 <= someone* "thinks" *something*^{Agent} "would be" MODAL "to have^{Activity}" *something*^{Target};	RB01, RB02, RB04, RB05
4.	RP04	*rp-04 <= someone* "thinks" *something*^{Target} "should" VERB^{Activity};	RB01, RB06
5.	RP05	*rp-05 <=* "Let us implement" *something*^{Target};	RB01, RB04, RB05
6.	RP06	*rp-06 <= something*^{Target} "needs to be" VERB^{Activity};	RB01, RB06
7.	RP07	*rp-07 <=* "All that is needed is" *something*^{Target};	RB01, RB04, RB05
8.	RP08	*rp-08 <= something*^{Target} "is what" *someone* "needs";	RB01, RB04, RB05
9.	RP09	*rp-09 <=* "Could we add^{Activity}" *something*^{Target} "?";	RB01, RB05, RB06
10.	RP10	*rp-10 <= someone* "thinks" *something*^{Target} "is" MODAL "to" VERB^{Activity};	RB01, RB06
11.	RP11	*rp-11 <=* "Why do not change^{Activity}" *something*^{Target} "?";	RB01, RB06
12.	RP12	*rp-12 <=* "it would be" MODAL "to" VERB^{Activity};	RB01, RB04, RB06
13.	RP13	*rp-13 <= someone* "needs to create^{Activity}" *something*^{Target};	RB01, RB04, RB05, RB06
14.	RP14	*rp-14 <= something*^{Target} "is required";	RB01, RB04, RB05

No.	Review Pattern Code	Functional User Review Pattern	Requirement Boilerplate Code
15.	RP15	rp-15 <= something^{Agent} "could have" something^{Target};	RB01, RB02, RB04, RB05
16.	RP16	rp-16 <= "It would be" ("possible" | "beneficial") "to have" something^{Target};	RB01, RB04, RB05
17.	RP17	rp-17 <= "Please" ("remove" | "check")^{Activity} something^{Target};	RB01, RB06
18.	RP18	rp-18 <= something^{Agent} "requires" something^{Target};	RB01, RB02, RB04, RB05
19.	RP19	rp-19 <= something^{Target} "should be treated" ("in" | "as") something^{Agent};	RB01, RB02, RB04, RB05
20.	RP20	rp-20 <= someone "thinks" something^{Target} "needs" VERB^{Activity};	RB01, RB06
21.	RP21	rp-21 <= something^{Agent} ("should" | "could") ("define" | "support")^{Activity} something^{Target};	RB01, RB05, RB06
22.	RP22	rp-22 <= something^{Target} ("should" | "could") "be" VERB^{Activity};	RB01, RB06
23.	RP23	rp-23 <= "adding"^{Activity} something^{Target};	RB01, RB05, RB06
24.	RP24	rp-24 <= "All" someone "needs is" something^{Target};	RB01, RB04, RB05
25.	RP25	rp-25 <= someone "requests" something^{Target};	RB01, RB04, RB05
26.	RP26	rp-26 <= something^{Agent} ("should" | "could") "include" something^{Target};	RB01, RB02, RB04, RB05
27.	RP27	rp-27 <= something^{Target} "ought to be" somehow^{Way};	RB03
28.	RP28	rp-28 <= someone ("wants" | "likes") "to have" something^{Target};	RB01, RB04, RB05
29.	RP29	rp-29 <= something^{Agent} "needs" something^{Target};	RB01, RB02, RB04, RB05
30.	RP30	rp-30 <= something^{Target} "is missing";	RB01, RB04, RB05
31.	RP31	rp-31 <= something^{Target} "is not defined^{Activity}";	RB01, RB05, RB06

No.	Review Pattern Code	Functional User Review Pattern	Requirement Boilerplate Code
32.	RP32	*rp-32 <= something*[Target] "would be a good" ("idea" | "thing");	RB01, RB04, RB05
33.	RP33	*rp-33 <= something*[Agent] ("can" | "could") "use"[Activity] *something*[Target];	RB01, RB02, RB04, RB05, RB06
34.	RP34	*rp-34 <= someone* "is" ("thinking" | "planning") "of adding[Activity]" *something*[Target];	RB01, RB05, RB06
35.	RP35	*rp-35 <=* "A new" *something*[Target] "can be made";	RB01, RB04, RB05
36.	RP36	*rp-36 <=* "could allow" *something*[Target] "to" VERB[Activity];	RB01, RB06
37.	RP37	*rp-37 <=* "I propose" *something*[Target];	RB01, RB04, RB05
38.	RP38	*rp-38 <= something*[Target] ("could" | "might") "be not a bad" ("idea" | "thing");	RB01, RB04, RB05
39.	RP39	*rp-39 <= something*[Target] "would allow to" VERB[Activity];	RB01, RB06
40.	RP40	*rp-40 <= someone* ("should" | "could") "modify"[Activity] *something*[Target];	RB01, RB04, RB06
41.	RP41	*rp-41 <= something*[Agent] ("should" | "could") "hold"[Activity] *something*[Target];	RB01, RB06
42.	RP42	*rp-42 <=* "New changes include" *something*[Target];	RB01, RB04, RB05
43.	RP43	*rp-43 <=* ("Plan" | "idea" | "aim") "is" *something*[Target];	RB01, RB04, RB05
44.	RP44	*rp-44 <= someone* "recommends" *something*[Target];	RB01, RB04, RB05
45.	RP45	*rp-45 <= something*[Agent] ("provides" | "supports")[Activity] *something*[Target];	RB01, RB05, RB06
46.	RP46	*rp-46 <= someone* "should create[Activity]" *something*[Target];	RB01, RB04, RB05, RB06
47.	RP47	*rp-47 <= something*[Target] "is removed";	RB01, RB04, RB05

No.	Review Pattern Code	Functional User Review Pattern	Requirement Boilerplate Code
48.	RP48	*rp-48 <= someone* "is looking" ("to" | "for") VERB[Activity];	RB01, RB04, RB06
49.	RP49	*rp-49 <= someone* "expects" *something*[Target];	RB01, RB04, RB05

Someone grammar structure

someone-noun <= PROPER NOUN | PERSONAL PRONOUN;

someone <= someone-noun {someone-noun};

Something grammar structure

something-noun <= PROPER NOUN | NOUN;

premodifier <= [DETERMINER] [NUMERAL] [ADJECTIVE];

postmodifier-prepositional-phrase <= ("with" | "in" | "on") *premodifier something-noun {something-noun};*

postmodifier-to-infinitives <= "to" VERB;

something <= premodifier something-noun {something-noun} [postmodifier-prepositional-phrase | postmodifier-to-infinitives];

Somehow grammar structure

somehow <= something VERB [*something*];

Functional Requirement Boilerplates

Requirement Boilerplate Code	Functional Requirement Boilerplate
RB01	The <Agent> shall be able to <Activity> <Target>.
RB02	The system shall allow <Target> to be in <Agent>.
RB03	The <Agent> shall be able to <Activity> <Target> with <Way>.
RB04	The <Agent> shall allow a user to be able to <Activity> <Target>.
RB05	The <Agent> shall have <Target>.
RB06	The <Agent> shall <Activity> <Target>.