## **Implemented Heuristics**

#	FEATURE REQUEST	#	PROBLEM DISCOVERY
2	[someone] expects [something] to work [someone] could/should add/provide/offer/integrate	65	[something] is not able to [verb] problem related to [something]
3	[something] [someone] would love to see/use [something]	67	[something] is not defined
4	[someone] thinks [something] would be [modal] to have [something]	68	[someone] forgets [something]
5	[someone] thinks [something] should [verb]	69	[something] cannot be found
6	[someone] should try to [verb]	70	[something] is a risk
7	Let us implement [something]	#	SOLUTION PROPOSAL
8	[something] needs to be [verb]		[someone] suggests [something]
9	All that is needed is [something]		Have you installed/tried [something]?
11	[something] is what [someone] need Could we add [something]?		I [verb] [something] to fix [something] [something] would be a good idea/thing
12	[someone] thinks [something] is [modal] to [verb]		[something] can/could use [something]
13	Why do not change [something]?		[someone] was thinking/planning of adding [something]
14	[someone] would like to use [something]		[something] can be fixed by [something]
15	[something] should be fixed	78	I will try [verb]
16	It would be [modal] if [subject + verb]	79	[someone] thinks the reason is [something]
17	[someone] needs to create [something]	80	[something] should/could/can/must solve [something]
18	[someone] needs a way to [verb]	81	[someone] believes you must [verb]
19	[something] is required		A new [something] can be made
20	[something] could have [something]		Why don't use [something]
	It would be possible/beneficial to have [something]  Please remove/check [something]	84	Here's the according patch
23	Can [someone] ask that [someone] create [something]?		[someone] creates an extension of/to [something] [someone] could/can run/prepare [something]
24	Can [something] fix [something]?		If you [verb] do [something]
25	[something] requires [something]		[someone] would like to offer code
26	[something] should be treated in/as [something]		[someone] thinks [something] can help
27	[someone] thinks [something] need [verb]		[something] resolves [something]
28	[something] should/could define/support [something]	91	[something] could be solution
29	[something] should/could be [verb]	92	[something] could be done
30	adding [something]	93	could allow [something] to [verb]
31	All [someone] needs is [something]	94	To make [something] workable [someone] needs [something]
32	[someone] requests [something]		All [someone] can do is [something]
33	[something] should/could include [something]		I propose [something]
34	[something] ought to be [somehow]		[someone] resolves [something] by [verb]
35	[someone] wants/likse to have [something]		[something] could be fixed in [something]
36 #	[something] needs [something]  OPINION ASKING		You need to do [something] Just use [something]
	Does that mean [someone] should [verb]?		[something] will work
38	What do you think about [something]?		goal is to provide [something]
	What do you think?		0 1 1 0
	Is [something] you prefer?		Solution consists of/in [something] [something] could/might be not a bad idea/thing
	Has [someone] considered [something]? Right?		[something] could/might be not a bad idea/thing [something] would allow to [verb]
#	PROBLEM DISCOVERY		[someone] have to [verb] if [something]
	[someone] has an issue		[someone] should/could modify [something]
43	[someone] has tried [verb] but [subj+verb]		Solution is [something]
44	[something] goes wobbly		A way is [something]
45	[someone] tried [verb] and discovered [something]		if [subject+verb] [something] would work
46	[something] seems to be an issue		just [verb]
47	[someone] gets/catches error		Let's use [something]
48	[something] isn't good quality		[someone] should go into [something]
	An issue to fix is [something]		Let's try [verb]
	It's a mistake/problem [something]		Try to create [something]
51 52	[something] is missing There may be a problem		You must [verb] You just do not [verb]
53	[something] crashes		[someone] should/could recommend [something]
54	[something] demonstrates/represents the problem		[something] isn't appropriate
55	[something] is unable to [verb]		[something] should hold [something]
56	[something] failed		[someone] should/could work on [something]
	Issue cost [something]	#	INFORMATION SEEKING
58	Crash/problem/issue/bug happens	122	Can anyone give me [something]?
59	Problem is dependent of/to [something]	123	What is the status of [something]?
60	[something] doesn't work		Is anyone working on [something]?
61	[something] not do [something]		What is [something]?
62	[something] works finebut not [something]		[someone] wants to know [something]
	Problem/issue occurs		Which [something] is/are available?
64	Error: [something]	128	Is/Are there [something]?

129	#	INFORMATION SEEKING	#	INFORMATION GIVING
130 Invow/what about [something]? 131 Sugestion is welcome 132 Does anybody know [something]? 133 Does [someone] miss [something]? 134 Which [something] provide? 135 What does [something] provide? 136 See below/above 137 What does [something]? 138 Any sugestion? 139 How to [something]? 130 Howat/Why to [something]? 131 Are there examples? 132 Any suggestion? 133 Any suggestion? 134 Any suggestion? 135 What does [something]? 136 Someone] would [verit] to offer help 137 Are there examples? 138 Someone] would [verit] to offer help 139 In minerated to contribute to [something] in the source code for [somethi				
131   Suggestion is welcome   132   Someonen   makes changes to [something]   132   Does anybody know [something]?   184   New changes include [something]   134   Which [something] do you prefer/favor/like?   185   Something] available   135   What does [something]   136   Which [something] do you prefer/favor/like?   185   Something] available   137   Take a look at [something]   138   What Was [something]   139   What/Why do [something]?   139   Take a look at [something]   130   What/Why do [something]   130   What Was setups for [something]   131   What Was setups for [something]   132   We have setups for [something]   133   Have to [something]   139   We have setups for [something]   131   We have setups for [something]   131   We have setups for [something]   132   We have setups for [something]   131   We have setups for [something]   132   We have setups for [something]   133   Irecomment [something]   134   We have setups for [something]   135   Irecomment [something]   136   Someone]   We have setups for [something]   137   Irecomment [something]   138   Irecomment [something]   139   Irecomment [something]   130   Irecomment [something]   131   Irecomment [something]   132   Irecomment [something]   133   Irecomment [something]   134   Are there any [something]   139   Isomething]   139   Isomething]   130   Isomething [something]   130   Isomething]   130   Isomething]   130   Isomething   130   I				· · · · · · · · · · · · · · · · · · ·
132   Does anybody know   Something ?   138   Something  is in a working state				
Jasa   Does (someone) miss (something)   Jasa   New changes include (something)				
Mich [something] do you prefer/favor/like?  What does [something] provide?  What does [something]?  What which [something]?  What which [something]?  What which [something]?  What does [something]?  What which [something]?  What which [something]?  What which [something]?  What bees [something]  What which [something]?  What which [something]?  What sees [something]  Does anybody have [something]?  Why would you [verb]?  Why would you [verb]?  Why would you [verb]?  Why would you [verb]?  Where is [something]?  What which [		, , , ,		
Mat does   Something  provide?   186   See below/above   1316   What/Why do   Something ?   187   Take a look at   Something    138   Ave there examples?   188   Someone  would [verb] to offer help   138   Ave suggestion?   189   Iam interested to contribute to   Something    139   How to   Something    190   The source code for   Something    181   Iam interested to contribute to   Something    190   The source code for   Something    191   We have setups for   Something    191   Something    1				
Minat/Winy do [something]?  Are there examples?  Alsa Any suggestion?  Are there examples?  Alsa Any suggestion?  Alsa Any suggestion?  Alsa Any suggestion?  Alsa Any suggestion?  Are there examples?  Alsa Any suggestion?  Are there examples?  Alsa I am interested to contribute to [something] is at:  All Obes anybody have [something]?  Alsa I am source code for [something] is at:  Alsa Does anybody have [something]?  Alsa I am source code for [something] is at:  Alsa Does anybody have [something]?  Alsa I am source (something]  Are there any [something]?  Boes [someone] want [something]?  Boes [someone] want [something]?  Cook [something] [something]?  Cook [something] [something]?  Cook [something] [something]?  Cook [something] [something]?  Cook [link]  Any solution [something]?  Cook [link]  Cook [something] [somethi				
137 Are there examples?   188   someone  would (verb) to offer help   138 Ary suggestion?   189   am interested to contribute to [something]   139   How to [something]   190   The source code for [something]   131   140   Does anybody have [something]?   191   We have setups for [something]   141   15   Someone] aware of [something]?   192   Plan/Idea/aim is [something]   194   Is foreowned [something]   194   Is foreowned [something]   194   Is foreowned [something]   195   Make [something]   195   Make [something]   195   Make [something]   196   Isomething]   196   Isomething]   197   Isomething   196   Isomething]   197   Isomething   197   Isomeone]				
138   Any suggestion?   189   Iam interested to contribute to [something]   190   The source code for [something]   190   The source code for [something]   191   We have setups for [something]   191   We have setups for [something]   191   We have setups for [something]   192   Plan/Idea/aim is [something]   192   Plan/Idea/aim is [something]   193				
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Jacob   Does anybody have [something]?   191   We have setups for [something]   141   15   [someone] aware of [something]?   192   Plan/idea/aim is [something]   142   Why would you [verb]?   193   Irecommend [something]   143   Let me know if [something]   194   Someone] will check [something]   195   195   195   195   195   195   195   196				
141 Is [someone] aware of [something]? 142 Why would you [verb]? 143 Let me know if [something] 144 Where is [something] 144 Where is [something]? 145 Can/could anyone help me? 146 would like to know (something] 147 Are there any [something]? 148 Any solution/hint/suggestion/plan? 149 Does [someone] wait [something]? 149 Does [someone] wait [something]? 140 Does [someone] wait [something]? 150 Can [someone] explain [something]? 151 Does [something] provide [something]? 152 What thappens? 153 Can [someone] explain [something]? 154 What does [someone] wait [something]? 155 What thappens? 156 Is [something] provide [something]? 157 Can I find [something]? 158 Will [something] provide [something]? 159 Ou have [something]? 150 Can I someone] et/los [someone] wait [someone] wait [something] [someone] wait [someone] [someone] wait [someone] [someone] wait [someone]				
Withy would you (yerb)?				
Let me know if [something]  144   Where is [something]?  155   Make [something]   195   Make [something]   196   Make [something]   196   Make [something]   197   196   Make [something]   197   196   Make [something]   197   198   Mary solution works   199   Mary solution/hint/sugestion/plan?   198   Solution works   199   Someone] writes code to [verb]   198   Solution works   199   Someone] want [something]?   200   Someone] creates [something]   198   Solution works   199   Someone] want [something]?   200   Someone] creates [something]   198   Solution works   199   Someone] want [something]?   200   Someone] creates [something]   198   Solution works   199   Someone] want [something]?   201   Something] is removed   199   Someone] want [something]?   201   Something] is removed   199   Something]   199   Someone] is looking to [verb]   199   Someone]   Something]   199   Someone]   Something]   199   Someone]   Someone]   Something]   199   So				
144   Where is [something]?   195   Make [something] like [something]   145   Can/could anyone help me?   196   [something] provides/supports [something]   147   Are there any [something]?   198   solution works   197   There are efforts to/for [something]   148   Any solution/hint/suggestion/plan?   199   [someone] writes code to [verb]   149   Does [someone] want [something]?   200   [someone] creates [something]   150   Can [someone] explain [something]?   201   [something] is removed   151   Does [something] provide [something]?   202   [submit [something]   152   What happens?   203   [someone] is looking to [verb]   154   What does [someone] display?   205   Here is [something] and [something]   155   Do you have [something]?   206   [something] and [something]   207   See [link]   157   Can I find [something]?   208   Iam [modal] to help/offer   158   Will [something] be supported?   209   [someone] is working on [something]   159   Can [someone] tell [something]?   210   See [something] at [link]   161   Should [something] be [verb]?   211   Iook at [link]   162   Please share [something]   213   Please [verb]   163   Does [someone] expect [something]?   214   [someone] expects [something]   165   Can/could [amyone] suggest?   216   [someone] posts [something]   166   Is [something]?   217   [someone] posts [something]   167   Which [something]?   218   [someone] posts [something]   168   Is [something]?   219   Something]   210   Something]   211   Iook at [link]   169   Should "I/Couldnt'/wouldnt'/can't [something]?   217   [someone] announces [something]   218   [someone] announces [something]   219   Ioon [which [something]?   219   Ioon [which [something]?   219   Ioon [which [something]?   219   Ioon [which [something]?   220   Ioon [which [something]   221   Ioon [which [something]   222   Ioon [which [something]   223   Ioon [which [something]   224   Ioon [which [something]   225   Ioon [which [something]   226   Ioon [which [something]   227   Ioon [which [something]   228   Ioon [which [som				
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147				
148				
Does [someone] want [something]?   200 [someone] creates [something]   201 [something] is removed   202   I submit [something]   201 [something] is removed   202   I submit [something]   203 [someone] is looking to [verb]   203 [someone] is looking to [verb]   204 [something]   204 [something]   205   Here is [something]   206 [someone] display?   205   Here is [something]   206 [something]   207 [something]   208 [something]   209 [someone] display?   206 [something]   208 [someone] is working on [something]   209 [someone] is working on [something]   209 [someone] is working on [something]   209 [someone] is something   209 [someone] is something   209 [something]   209 [something]   209 [something]   200 [something]   200 [something]   200 [something]   200 [something]   200 [something]   200 [				
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What does [someone] display?   205   Here is [something]   206   Isomething]   206   Isomething]   207   See [link]   208   Is [something]   209   Isomeone] is working on [something]   209   Isomeone] is working on [something]   210   See [something]   211   Isomething]   212   Isomeone]   Isomething]   213   Please note [something]   214   Isomeone]   Especial   Isomething]   215   Isomething]   216   Isomething]   217   Isomeone]   Especial   Isomeone]   Especial   Especial   Isomeone]   Especial				
155   Do you have [something]?   206   [something] has been fixed     156   Is [something] correct/ok?   207   See [link]     157   Can I find [something]?   208   Iam [modal] to help/offer     158   Will [something] be supported?   209   [someone] is working on [something]     159   Can [someone] tell [something]?   210   See [something] at [link]     160   How do [something] be [verb]?   211   look at [link]     161   Should [something] be [verb]?   212   Please note [something]     162   Please share [something]   213   Please [verb]     163   Does [someone] expect [something]?   214   [someone] expect [something]     164   Is [something] missing?   215   [someone] posts [something]     165   Can/could [anyone] suggest?   216   [someone] updates [something]     166   Is your intention [something]?   217   [something] will [verb] on [date]     167   Which [something]?   218   [someone] announces [something]     168   Can/could [anyone] specify?   219   [someone] wants/likes to contribute/participate     169   Shouldn't/Couldn't/wouldn't/can't [something]?   220   [someone] wants/likes to contribute/participate     170   Is [something]   221   [someone] made [something]     171   How much [something]?   222   [someone] intends to [verb]     172   How does [something]?   223   [someone] made [something]     173   Has anyone [verb]?   224   [someone] made [something]     174   Does [someone] need [something]?   225   [something] by using [something]     175   Is [something] true?   226   [something] by using [something]     176   Does [someone] plan [something]?   228   [do something] to use [something]     178   Can [someone] use [something]?   229   [something] has been modified				
156   Is [something] correct/ok?   207   See [link]   208   Iam [modal] to help/offer   209   Iam [modal]				
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See   Someone   Isworking   See   Someothing   See   Something				
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161 Should [something] be [verb]? 162 Please share [something] 163 Does [someone] expect [something]? 164 Is [something] missing? 165 Can/could [anyone] suggest? 166 Is your intention [something]? 167 Which [something]? 168 Can/could [anyone] specify? 169 Shouldn't/Couldn't/wouldn't/can't [something]? 170 Is [something] possible? 171 How much [something]? 172 How does [something]? 173 Has anyone [verb]? 174 Does [someone] need [something]? 175 Is [someone] need [something]? 176 Does [someone] plan [something]? 177 Does [anyone] remember [something]? 178 Can [someone] updates [something] 129 [someone] updates [something] 120 [something] will [verb] on [date] 1218 [someone] announces [something] 1229 [someone] wants/likes to contribute/participate 1220 [something] added 1221 Do not [verb] 1222 [someone] intends to [verb] 1223 [someone] intends to [verb] 1224 [something] uses [something] 1225 [do something] uses [something] 126 [something] uses [something] 127 [someone] plan [something]? 128 [something] is used 129 [something] works 170 Does [anyone] remember [something]? 129 [something] is instance  # INFORMATION GIVING 120 Please [verb] 1214 [someone] expects [something] and expects [something] is instance 120 please [something] is instance 1216 [something] is something] is instance 1227 [something] is instance				
162Please share [something]213Please [verb]163Does [someone] expect [something]?214[someone] expects [something]164Is [something] missing?215[someone] posts [something]165Can/could [anyone] suggest?216[someone] updates [something]166Is your intention [something]?217[something] will [verb] on [date]167Which [something]?218[someone] announces [something]168Can/could [anyone] specify?219[someone] wants/likes to contribute/participate169Shouldn't/Couldn't/wouldn't/can't [something]?220[something] added170Is [something] possible?221Do not [verb]171How much [something]?222[someone] intends to [verb]172How does [something]?223[someone] made [something]173Has anyone [verb]?224[something] uses [something]174Does [someone] need [something]?225[do something] by using [something]175Is [something] true?226[something] works176Does [someone] plan [something]?227[something] works177Does [anyone] remember [something]?228[do something] to use [something]178Can [someone] use [something]?229[something] has been modified				
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