	Functional/Non-	List of requirements for 'The Octopus'														
ReqID	Functional	Description	Module	Creation date	Change date Dependencies	Test case	Assignee	Comments	Temporary Index							
System Requirements																
Reg-Sys 101	Functional	All peers shall be installed with the static ip address of the default bootstrap server.	Client-Backend	21/04/2016	29/04/2016	Test_201		Reformulated requirement	1							
Req-Back_102		All peers shall connect to the bootstrap server upon start.				Test_201			2							
Req-Back_103	Functional	All peers shall recieve 3 randomly selected IP addresses of others peers upon start.	Client-Backend	21/04/2016	29/04/2016				3							
Req-Back_104		All neers shall receive a list of published swarms upon	Client-Backend	21/04/2016	29/04/2016	Test_203			4							
Req-Back_105		All peers shall receive a blacklist of IP addresses that have		21/04/2016		Test 204										
		All neers shall block communication with the IP advesses				_			3							
Req-Back_106		that are banned.	Client-Backend			Test_205			6							
Req-Back_107	Non-Functional	should have a validity time of 3 minutes. All peers should refresh its validity time, this refresh should	Client-Backend	21/04/2016	29/04/2016	Test_206			7							
Reg-Back 108	Functional		Client-Backend	21/04/2016	29/04/2016	Test 206			8							
Req-Back_109		All IP addresses that has exceeded their validity time shall be removed from the bootstrap.		21/04/2016		Test_302										
		All swarms without IP addresses shall be removed from	Bootstrap-						9							
Req-Back_110	Functional	the bootstrap server.	Backend Bootstran-	21/04/2016	29/04/2016	Test_303			10							
Req-Back_111	Functional	All peers and servers shall synchronize with a NTP-server and use the same timezone.	Backend/Client- Backend	21/04/2016	29/04/2016	Test_209, Test_301			11							
Req-Back_112	Functional	All peers should update their information from the bootstrap server every 3 minutes.	Client-Backend	21/04/2016	29/04/2016	Test_210			12							
.,		All peers which are not able to connect to the default bootstrap server, should connect to another bootstrap							-							
Reg-Back 113	Functional		Client-Backend	21/04/2016	29/04/2016	Test 211			13							
Reg-Back 114		All neers which can not connect to a hootstran server and		21/04/2016		Test 212			14							
		When a peer receives the 3 IP addresses of other peers it should establish a HTTPS connection with them.														
Req-Back_115	Functional	If a neer can't connect to any of the IP addresses it	Client-	21/04/2016	29/04/2016	Test_213			15							
Req-Back_116		receives it should recieve 3 new ones from the bootstrap server.	Backend/Bootst rap-Backend	21/04/2016	29/04/2016	Test_214			16							
Reg-Back 117	Non-functional	A peer should at most have 3 connections to other peers at the same time.	Client-Backend	21/04/2016	29/04/2016	Test_215			17							
Req-Back_118		The bootstrap servers should synchronize their data with		21/04/2016		Test_304		What data should be synchronized?	18							
		All swarms shall be divided into blocks with a sequence of				1681_304		synunonized:	19							
Req-Back_119		All swarms shall have a message digest which uses SHA-	System	21/04/2016				Which SHA version is not yet								
Req-Back_120	Non-functional	7.	System	21/04/2016	29/04/2016			confirmed.	20							
Req-Back_121	Functional		Client-Backend	21/04/2016	29/04/2016				21							
Req-Back_122	Functional	When a file has finished downloading the system shall recompute the message digest and verify the file is intact.	Client-Backend	21/04/2016	29/04/2016											
Req-Back_123	Functional	When a peer is uploading a swarm to another peer it should add their IP address to the metadata of the swarm.		21/04/2016	29/04/2016				24							
		The system shall communicate between user-to-user and user-to-server with a RESTFUL API with JSON data	Backend/Bootst													
Req-API_124	Non-functional	encoding The system shall have an option to restart with encryption	rap-Backend	21/04/2016	29/04/2016											
Req-Sys_125		disabled.	System	21/04/2016	29/04/2016 29/04/2016				36							
		The system shall have encryption on all communication. The system shall support more than 2 peers.	System	21/04/2016					38							
User Requirements																
Reg-Front_130		The peers shall provide an option to download a swarm in the GUI.	0" . 0.1"	21/04/2016	29/04/2016	Test 102			30							
		The peers shall provide an option to create swarms in the GUI	Client-GUI			_										
Req-Front_131		The peers shall provide an option to see a list of swarms in the GUI	Client-GUI	21/04/2016		Test_101			25							
Req-Front_132	Functional	the GUI	Client-GUI	21/04/2016	29/04/2016	Test_101			26							
Req-Front_133	Functional	The peers shall provide an option to search for swarms in the GUI		21/04/2016	29/04/2016	Test_103			28							
Req-Front_134	Functional	The peers shall provide an option to upload a swarm in the GUI.		21/04/2016	29/04/2016	Test_104			29							
Req-Front_135	Functional		Client-GUI	21/04/2016	29/04/2016	Test_105			27							
Req-Front_136	Functional	The peers shall provide an option to choose whether a swarm is dark or visible in the GUI.	Client-GUI	21/04/2016	29/04/2016	Test_106			31							
Req-Front_137		The peers shall show the progress of uploads and downloads.	Client-GUI	21/04/2016	29/04/2016	Test_107, Test_108			32							
		The peers shall show the estimated time to complete	Client-GUI			_			33							
Req-Front_138		downloads The peers shall show the list of the IP addresses associated with a swarm		21/04/2016		Test_109										
Req-Front_139 Req-Front_140		associated with a swarm The peers shall show all IP addresses of connected peers.	Client-GUI	21/04/2016		Test_110 Test_111			34 35							
Reg-Front 141		The neers shall show an error message in case a file	Client-GUI	21/04/2016					39							
req-riont_141	i unicioNal	urgest rails and provide an option to redownload the file.	CHERK-GUI	21/04/2016	29/04/2010				39							
Needs work/unnecessa																
гу		The peers shall provide an option in the GUI to set a file as														
Reg-Front_129	Functional	public to upload its metadata to the default bootstrap	Client-GUI	21/04/2016	29/04/2016			Same as 136	21							
Req-Front_128		The peers shall provide an option to make a set of files	Client-GUI	21/04/2016												
rteq-riont_128	і ипсиопаі	available for sharing in the GUI.	GIRLIF-GUI	21/04/2016	28/04/20 10											