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**Appendix A: Test cases**

Case ID	Component Name	Feature Description	Test Description	Expected Result	Actual Result	Business Severity	Defect Severity
F1	Site Manager	URL submission	Click Submit button without entering any data.	Indicate user that required fields are empty	A red star is displayed next to each required field	low	none
F2	Site Manager	URL submission	Enter URL and Email in different format	Give error message	A red star is displayed next to the fields	low	none
F3	Site Manager	URL submission 	Complete all fields and click Submit	Give success message and create submission in database	Success message displayed, new submission created	high	none
F4	Search	Auto complete	Enter "s" in the search field	Give a list of careers starting with "s"	Provided "Software Engineer" as a search suggestion	high	none
F5	Search	Auto complete	Enter any character of an Unavailable career in the ontology.	Should give no suggestions	No suggestions given	low	none

F6	Search and Ontology Browser	Searching	Enter “Software Engineer” and click search button	Provide a list of careers with inference. Should give “Software Engineer”, “Software Developer” and “Web Developer”	Provided “Software Engineer”, “Software Developer”, “Web Developer” and “IT”	high	medium
F7	Ontology Browser	Check career navigation 	Click “Information Technology” link from the set of links on the Home page and do same until reaching a specific career	Display links consistent with the ontology	Displays links consistent with the ontology	high	none
F8	Ontology Browser and RDF Browser	Check career descriptions – “Software Engineer”	Navigate to career “Software Engineer” and click the link	Display description consistent with RDF files	Two descriptions are displayed	high	none

F9	Ontology Browser and RDF Browser	Check career jobs – “Software Engineer”	Navigate to career “Software Engineer” and click the “Job Vacancies” link	Display a list of vacancies with inference	Four vacancies are displayed with two of them been inferred	high	none
F10	Ontology Browser and RDF Browser	Check career courses - “Software Engineer”	Navigate to career “Software Engineer” and click the “Courses”	Display courses with inference	Courses are displayed that belonged to “Software Engineer” as well as “IT”	high	none
F11	Ontology Browser and RDF Browser	Check Articles, Companies, News and Blog posts same way as F9 and F10	Navigate to career “Software Engineer” and click the relevant links	Display information with inference	Information is displayed consistent with RDF files. One data duplication scenario in displaying companies.	High	low

## Appendix B: Questionnaire and Results

Career Info	Date	DD	MM	YYYY								
System Evaluation Questionnaire												
Please answer all questions by ticking (√) the appropriate boxes where necessary.												
Name :												
Age:	Employed (yes/no):											
<b>Front-end Evaluation</b>												
		0	1	2	3	4	5	6	7	8	9	
Text used is clearly visible and readable	Confusing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Clear
Prompts for input	Confusing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Clear
System informs about its progress	Not at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very much
Ease of navigation	Difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Easy
Functionality usage is self explanatory	Never	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Always
Career searching functionality	Difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Easy
How the career information content is structured	Confusing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Clear
Error messages	Confusing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Clear
Use of terms and language	Inconsistent	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Consistent
Career information content	Useless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Useful
Colors and styles used	Inconsistent	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Consistent
Usefulness of content	Useless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Useful

Front-end Evaluation												
		0	1	2	3	4	5	6	7	8	9	
Overall look and feel	Terrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wonderful
Overall rating of the functionality	Terrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wonderful

Admin Area Evaluation												
		0	1	2	3	4	5	6	7	8	9	
Text used is clearly visible and readable	Confusing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Clear
Prompts for input	Confusing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Clear
System informs about its progress	Not at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very much
Ease of navigation	Difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Easy
Functionality usage is self explanatory	Never	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Always
Error messages	Confusing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Clear
Use of terms and language	Inconsistent	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Consistent
Colors and styles used	Inconsistent	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Consistent
Usefulness of content	Useless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Useful
Buttons, links and navigation is self explanatory	Never	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Always
Overall look and feel	Terrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wonderful
Overall rating of the functionality	Terrible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wonderful
Learning to operate the system	Difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Easy
Performing tasks is straight forward	Never	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Always



Individuals	Front End Evaluation - Question Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	10	6	8	8	7	9	5	8	8	5	8	6	7	7
2	7	5	8	7	8	9	8	5	7	6	8	6	7	9
3	8	8	6	8	7	9	7	7	7	4	8	5	6	5
4	8	5	8	8	6	9	6	7	6	8	6	8	8	6
5	8	6	8	7	8	8	5	6	7	5	7	7	7	5
6	6	4	7	8	9	9	4	8	9	6	7	6	8	7
7	9	9	8	7	8	9	8	7	8	7	8	8	6	8
8	9	5	9	6	7	7	5	6	9	5	9	6	5	8
9	8	6	8	7	6	8	8	6	7	8	8	7	7	9
10	6	8	7	9	8	9	7	7	8	6	9	8	8	7
11	8	8	6	8	7	8	6	8	5	7	8	5	8	4
12	8	8	5	7	5	8	4	8	6	8	7	7	6	8
13	7	8	8	8	4	9	5	5	6	7	5	5	7	7
14	7	7	8	10	8	8	4	7	7	8	7	6	8	6
15	9	6	7	6	7	7	7	5	8	8	5	8	6	9
16	8	5	6	6	6	9	8	7	5	8	6	8	7	9
17	6	5	9	6	6	8	6	6	7	6	7	7	8	8
18	5	6	5	6	8	7	7	5	6	5	8	9	8	9
19	8	8	8	8	7	8	8	8	8	5	9	7	7	7
20	9	7	8	7	8	6	6	7	7	4	7	6	8	8
21	8	5	7	8	6	7	7	6	6	8	6	7	6	6
22	7	6	6	5	8	6	8	7	7	8	7	7	7	8
23	8	8	8	8	7	7	6	7	6	7	8	8	8	9
24	9	7	4	6	9	8	6	8	7	6	8	6	8	7
25	9	8	8	6	7	8	7	6	8	7	7	6	10	6
	195	164	180	180	177	200	158	167	175	162	183	169	181	182
Average Score	7.8	6.56	7.2	7.2	7.08	8	6.32	6.68	7	6.48	7.32	6.76	7.24	7.28



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Individuals	Admin Area Evaluation - Question Number													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	10	7	8	9	8	8	6	10	8	9	9	8	8	7
2	9	6	7	8	7	8	8	10	8	9	8	9	6	8
3	9	6	6	8	9	6	6	9	9	8	8	7	7	6
4	8	8	8	10	8	9	7	9	5	9	7	5	5	8
5	9	7	7	10	8	10	5	8	8	8	8	6	6	9
6	9	6	5	9	10	10	6	10	8	10	9	8	7	8
7	8	8	8	9	9	10	8	10	6	10	8	6	6	8
8	7	7	6	8	9	9	7	8	7	8	9	8	7	8
9	10	8	6	7	8	8	5	8	8	10	6	9	5	9
10	8	9	8	8	10	7	6	9	7	10	8	7	6	7
11	9	6	7	8	10	8	8	9	8	9	7	8	7	8
12	7	6	6	9	10	10	6	8	9	8	8	9	8	9
13	8	5	5	8	8	9	6	7	8	9	6	8	7	6
14	9	6	6	6	9	9	5	8	7	8	9	9	6	7
15	6	8	8	7	7	8	8	7	6	9	8	7	7	6
16	8	7	7	8	8	8	9	7	6	9	7	9	7	6
17	8	7	8	8	9	9	8	7	7	9	8	7	6	8
18	7	8	8	9	8	7	8	8	8	6	8	8	7	7
19	8	8	6	10	8	7	7	10	9	7	8	6	9	7
20	7	7	7	8	8	8	6	9	8	10	8	8	8	7
21	9	8	7	9	8	10	8	7	8	7	9	8	7	7
22	8	9	8	8	8	8	6	8	7	8	9	8	8	7
23	6	6	5	6	9	7	7	8	8	9	7	9	9	8
24	8	8	8	7	8	9	7	9	7	10	6	9	6	8
25	8	7	7	8	7	9	8	9	8	8	6	7	5	7
	203	178	172	205	211	211	171	212	188	217	194	193	170	186
Average Score	8.12	7.12	6.88	8.2	8.44	8.44	6.84	8.48	7.52	8.68	7.76	7.72	6.8	7.44



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