Software Requirements and Design Specifications

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No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
1	General	LR Client log-in portal	Functional	Security	Each user needs to have a unique User ID and Password to access the software. New user must register with a valid email address.		HIGH	Develop	LR: The software has to ensure no duplication of User ID is allowed
2	General	LR Client log-in portal	Functional	Security	The portal must check the correctness of user id and password supplied by the user. It must display error message if the user id and password do not match.	1	HIGH	Develop	
3	General	LR Client log-in portal	Non-functional	GUI	Please refer to DBA mock-up screenshots page 1	1,2	HIGH	Develop	
4	General	General	Functional	Web link	Clicking on the LR logo will bring the user to LR's webpage @ www.lr.org		LOW		LR: To be included in pilot development UX/UI.
5	General	DBA Product Selection	Functional	General	The product selection page is where the user can select the product/tool which he/she intends to use.		LOW		
6	General	DBA Product Selection	Functional	Web link	The user will see a web link for each product/tool that his company/group has subscribed to. Each webpage link will direct the user to the home page of the selected product/tool	5	LOW		Infratek: Up to LR LR: May not be included in the 1st prototype
7	General	DBA Product Selection	Non-functional	GUI	Please refer to DBA mock-up screenshots page 2	5,6	LOW		
8	General	DBA Project Selection	Functional	General	The project selection page is where the user can select the project which he/she intends to view.		HIGH	Develop	
9	General	DBA Project Selection	Functional	Web link	<project, company,="" site=""> The user will see a web link for each project he is given access rights to. This is to differentiate the analysis and insight information as per project basis.</project,>	8	HIGH	Develop	LR: Administrator is given the rights to administer users and user rights for each project. Refer to Item 20
10	Administrator	DBA Project Selection	Functional	Web link	<+ Create New Project> The <+ Create New Project> web link will navigate the user to the DBA Create New Project page. Only the administrator is given rights to create new project in the system, and will see the web link.	8,9	HIGH	Develop	LR: For the pilot phase, <+ Create New Project> is limited to 20 sites/projects.
11	Administrator	DBA Project Selection	Functional	Button	The <manage accounts=""> button is only visible to an administrator. It navigates the administrator to the DBA Manage Accounts page.</manage>	8	HIGH	Develop	
12	Administrator	DBA Project Selection	Functional	Web link	<data analysis=""> The <data analysis=""> web link will navigate the user to a summary page showing the statistics of all the analysis across the projects</data></data>	8	LOW		LR: To be included in pilot development UX/UI.
13	General	DBA Project Selection	Non-functional	GUI	Please refer to DBA mock-up screenshots page 3	8,9,10,11,12	HIGH	Develop	
	1	1	1		<u> </u>	1			1

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No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
14	Administrator	DBA Create New Project	Functional	General	The DBA Create New Project window allows an administrator to create a new project in the system, which will have its own databases separate from all other projects in the system. All registered users will be added automatically, but will not have access rights until assigned by the administrator ("None").	8	HIGH	Develop	
15	Administrator	DBA Create New Project	Functional	Textbox	<project name=""> The textbox is provided for the administrator to give a name to the newly created project in the system.</project>	8,14	HIGH	Develop	
16	Administrator	DBA Create New Project	Functional	Textbox	<country> The textbox is provided for the administrator to identify the country in which the new project is created for.</country>	8,14	HIGH	Develop	
17	Administrator	DBA Create New Project	Functional	Textbox	<site name=""> The textbox is provided for the administrator to identify the location in which the new project is created for.</site>	8,14	HIGH	Develop	
18	Administrator	LR Client log-in portal	Functional	Drop down list	<choose language=""> The drop down list contains two (4) languages (English and Norwegian) for user to select. The field titles and dropdown lists will be translated to the selected language accordingly.</choose>		HIGH	Develop	LR: For the pilot, only English. Other languages to be included for future development. An idea could also be a include a translation function, so that any foreign language/data LR: For the pilot, 2 languages i.e. English and Norwegian will be available for field title and dropdown list. Other languages such as Finnish, Swedish, etc. (if required) can be included as part of future development. An idea could also be a include a translation function, so that any foreign language/data
19	Administrator	DBA Create New Project	Functional	Button	<cancel> This allows the administrator to stop creation of a new project. All keyed in data will be lost and the DBA Create New Proejct window will close.</cancel>	8,14	HIGH	Develop	
20	Administrator	DBA Create New Project	Functional	Button	Create> This allows the administrator to confirm the creation of a new project. All keyed in data will be saved and the DBA Create New Proejct window will close. The administrator will see a new web link appear in the DBA Project Selection page. All users given access rights subsequently will also see the project web link appear in their DBA Proejct Selection page.	8,14	HIGH	Develop	
21	Administrator	DBA Create New Project	Non-functional	GUI	Please refer to DBA mock-up screenshots pages 4 and 5	14	HIGH	Develop	
22	Administrator	DBA Manage Accounts	Functional	General	The DBA Manage Accounts page is only available to administrators. The main purpose is to add and remove users, as well as assign access rights to users according to projects		HIGH	Develop	Infratek: If possible this should be connected to our AD, so that all Infratek users are included directly. LR: For the pilot, user accounts will be created 1x without linking to Infratek's AD. Will be linked when pilot goes into further development.
23	Administrator	DBA Manage Accounts	Functional	Accounts link	The user accounts will be linked to Infratek's Address Directory	22	MEDIUM		
24	Administrator	DBA Manage Accounts	Functional	Table	<username, email=""> This table lists down all registered users from the company/group. The administrator is able to click on any user in the list and this will populate the table on the right, allowing the administrator to assign access rights to the selected user.</username,>	22	HIGH	Develop	

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No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
25	Administrator	DBA Manage Accounts	Functional	Table	<project, administrator,="" field,="" in-house,="" management,="" none=""> This table lists down all existing projects created for the company/group. The table is empty first, and will populate once the administrator has selected a user from the table on the left. The administrator is then able to assign access rights to the selected user. By default, the user is assigned to "None" for all projects, which means he/she does not have access rights to any project. For each project, the administrator will have to assign one access rights type to the user (Administrator, In-house, Field, Management, None). In no situation can one user be assigned multiple access rights type.</project,>	22,24	HIGH	Develop	
26	Administrator	DBA Manage Accounts	Non-functional	GUI	Please refer to DBA mock-up screenshots pages 6 and 7	22,24,25	HIGH	Develop	
27	Administrator	DBA Administrator	Functional	Monitoring	Each activity/modification (addition, insertion, deletion) inside the software has to be monitored and recorded based on the User ID and date of the activity (audit trail/ user history log).		MEDIUM		
28	Administrator	DBA Administrator	Functional	Print	Administrator is given the rights to export reports on the system usage. For example, the number of analyses performed by each personnel, etc.	27	MEDIUM		LR: Client to provide a list of information (template) that are required to be exported, else LR will provide a default report.
29	General	DBA Home	Functional	General	The DBA Home page is the cover and introduction for the Digital Barrier Analysis tool. It contains information and instructions that are useful to the user. The title of the overview should clearly indicate the project name it is used.		HIGH	Develop	
30	General	DBA Home	Functional	Directory	Home > Digital Barrier Analysis > Project XX The above layout shows the pathway through which the user has navigated to arrive at the current page. It povides the main functions for the user to return to previous menu pages.	29	HIGH	Develop	
31	General	DBA Home	Functional	Web link	The <home> link allows the user to navigate back to the DBA Product Selection page, which is the page seen by the user after the client log-in portal.</home>	29,30	HIGH	Develop	
32	General	DBA Home	Functional	Web link	The <digital analysis="" barrier=""> link allows the user to navigate back to the DBA Project Selection page, which is the page seen by the user after selecting Digital Barrier Analysis in the Product Selection page.</digital>	29,30	HIGH	Develop	
33	Administrator	DBA Home	Functional	Web link	The <manage accounts=""> link is only visible to administrators. It will bring the administrator to the Manage Accounts page.</manage>			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
34	General	DBA Home	Functional	Web link	The <username> link shows the user's ID. It will navigate the user to the</username>		LOW		LR: To be included in pilot development UX/UI.
35	General	DBA Home	Functional	Menu	User Summary page. The menu contains important tabs that will allow the user to navigate between pages of the Digital Barrier Analysis tool. The menu section on the left/top must have one item highlighted or bolded to indicate the current page the user is, whenever he is accessing the DBA tool.	29	HIGH	Develop	
36	General	DBA Home	Functional	Menu	The <overview> tab brings the user to the DBA Home page. It is only functional when the user is not on the DBA Home page.</overview>	29,35	HIGH	Develop	
37	General	DBA Home	Functional	Menu	The <create new="" record=""> tab brings the user to the DBA Create New Record page. It is not functional when the user is already on the DBA Create New Record page.</create>	29,35	HIGH	Develop	
38	General	DBA Home	Functional	Menu	The <results> tab brings the user to the DBA Results page. It is only functional after a record has been submitted for the project.</results>	29,35	HIGH	Develop	
39	General	DBA Home	Functional	Menu	The <summary> tab brings the user to the DBA Summary page. It is not functional when the user is already on the DBA Summary page.</summary>	29,35	HIGH	Develop	
40	General	DBA Home	Functional	Textbox	The text area contains a brief introduction of the Digital Barrier Analysis tool. It can also be customised to include instructions or messages that will be displayed to all users.	29	HIGH	Develop	
41	General	DBA Home	Functional	Button	The <start analysis=""> button navigates the user to the DBA Workshop page.</start>	24	HIGH	Develop	
42	General	DBA Home	Non-functional	GUI	Please refer to DBA mock-up screenshots page 8	29,30,35,40,41	HIGH	Develop	
43	Administrator	DBA Setting	Functional	General	The DBA Setting page is only available to appointed administrators. It is where the administrator can edit pre-defined lists and risk matrix in the tool.		HIGH	Develop	

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No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
44	Administrator	DBA Setting	Functional	Web link	<pre-defined -="" lists="" type="" work=""> The edit link opens an overlay in which the administrator can view the current list of work types, and edit/add/remove work types which will be applied to all projects/users. This will affect the <work type=""> drop down list in DBA Create/Update Record page, as well as any formatting of the blank barrier analysis template which can be exported from the DBA Workshop page.</work></pre-defined>	43	HIGH	Develop	
45	Administrator	DBA Setting	Functional	Web link	<pre-defined -="" lists="" operations="" work=""> The edit link opens an overlay in which the administrator can select a work type and view associated work operations, and edit/add/remove work operations which will be applied to all projects/users. This will affect the <work operation=""> drop down list in DBA Create/Update Record page, as well as any formatting of the blank barrier analysis template which can be exported from the DBA Workshop page.</work></pre-defined>	43	HIGH	Develop	
46	Administrator	DBA Setting	Functional	Web link	<pre-defined -="" incident="" lists="" potential=""> The edit link opens an overlay in which the administrator can select a work type and work operation, and view associated potential incidents, and edit/add/remove potential incidents which will be applied to all projects/users. This will affect the <potential incident=""> drop down list in DBA Create/Update Record page, as well as any formatting of the blank barrier analysis template which can be exported from the DBA Workshop page.</potential></pre-defined>	43	HIGH	Develop	
47	Administrator	DBA Setting	Functional	Risk Matrix	The administrator is allowed to change the description of each consequence and barrier level. The administrator can also edit the risk category of individual boxes in the risk matrix. All changes will apply to all projects/users. The changes will be reflected in the risk matrices in DBA Workshop page, as well as any formatting of the blank barrier analysis template which can be exported from the DBA Workshop page.	43	HIGH	Develop	
48	Administrator	DBA Setting	Functional	Button	The <save> button allows the administrator to save all changes made.</save>	43	HIGH	Develop	
49	Administrator	DBA Setting	Non-functional	GUI	Please refer to DBA mock-up screenshots pages 9 to 12	43,47,48	HIGH	Develop	
50	In-house	DBA Workshop	Functional	General	The DBA Workshop is the page that allows user to export templates for the Barrier Analysis workshop, and import and export data generated as		HIGH	Develop	
51	In-house	DBA Workshop	Functional	Button	outcome of the workshop. The <export template=""> button allows the user to export a blank template for use in the Barrier Analysis workshop. This is highly recommended so that data can be captured in the intended format and avoid errors when imported into the system.</export>	50	HIGH	Develop	
52	In-house	DBA Workshop	Functional	Button	The <export records=""> button allows the user to export all existing records within the system, which could be data imported from a Barrier Analysis workshop or data created through the DBA Create New Record page.</export>	50	MEDIUM		
53	In-house	DBA Workshop	Functional	Button	The <import recrds=""> button allows the user to import a completed Barrier Analysis spreadsheet created from a Barrier Analysis workshop.</import>	50	HIGH	Develop	
54	In-house	DBA Workshop	Functional	Table	The table displays all existing records in the system. The user can filter each column according to needs.	50	HIGH	Develop	
55	In-house	DBA Workshop	Functional	Risk Matrix	The risk matrix displays the number of records in each category. The risk matrix on top shows the count before implementation of suggestions, while the bottom shows the count after implementation of suggestions. The user can click on the numbers in each category and this will filter the records displayed in the table on the left. The consequence and barrier levels can be renamed by the administrator under DBA Settings page. The acceptance criteria can be set by the administrator under the DBA Settings page and it will be updated and	50	HIGH	Develop	
56	General	DBA Workshop	Non-functional	GUI	reflected in DBA Workshop page. Please refer to DBA mock-up screenshots page 13	50,54,55	HIGH	Develop	
57	General	DBA Create/Update Record	Functional	General	The DBA Create/Update Record page is a form which will allow the user to submit new and update existing records for each potential incident of all work operations and types.		HIGH	Develop	Infratek: Must also be possible to submit new work operations and work types. LR: Client to clarify if this is meant for adding to the list of work operations and types. This is available through the DBA Settings page. If not, will require more explanation to better understand this requirement.
58	General	DBA Create/Update Record	Functional	Button	The <select record=""> button navigates the user to the DBA Select Record page.</select>	57	HIGH	Develop	

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No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
59	General	DBA Create/Update Record	Functional	Checkbox	<pre><create new=""> If the user checks this checkbox, a new record will be created in the system.</create></pre>	57,58	HIGH	Develop	
60	General	DBA Create/Update Record	Functional	Checkbox	<update> If the user checks this checkbox, the record selected through the DBA Select Record page will be updated in the system.</update>	57,58	HIGH	Develop	
61	General	DBA- Create/Update- Record	Functional	Drop down list	The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
62	General	DBA- Create/Update- Record	Functional	lcon	A icon beside the work type input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon.			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
63	General	DBA Create/Update Record	Functional	Drop down list	TBC: <work type=""> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.</work>	57	HIGH	Develop	
64	General	DBA Create/Update Record	Functional	lcon	A icon beside the work type input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon. "Type of work that is carried out. This is used as a way of categorizing work operations."	57,63	HIGH	Develop	
65	General	DBA Create/Update Record	Functional	Drop down list	<work operation=""> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.</work>	57	HIGH	Develop	
66	General	DBA Create/Update Record	Functional	lcon	A icon beside the work operation input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon. "The work operation that is carried out. This is used to identify potential incidents."	57,65	HIGH	Develop	
67	General	DBA Create/Update Record	Functional	Drop down list	<potential incident=""> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.</potential>	57	HIGH	Develop	
68	General	DBA Create/Update Record	Functional	lcon	A icon beside the potential incident input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon. "What potential incident could happen for this work operation. If several risks are relevant, submit as separate records."	57,67	HIGH	Develop	
69	General	DBA Create/Update Record	Functional	Textbox	<incident description=""> The textbox is provided for user to elaborate on the identified potential incident.</incident>	57	HIGH	Develop	
70	General	DBA Create/Update Record	Functional	lcon	A icon beside the incident description input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon. "This is just a further explanation to the scenario, to better understand what could happen. Not mandatory."	57,69	HIGH	Develop	
71	General	DBA Create/Update Record	Functional	Drop down list	Consequence> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.	57	HIGH	Develop	

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No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
72	General	DBA Create/Update Record	Functional	lcon	A icon beside the consequence input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon. Insignificant personnel injury, e.g. first aid treatment needed Small personnel injuries, e.g. medical treatment needed Critical personnel injury, e.g. loss time injury (or alternative work) Life threatening personnel injury or persistent injury 5 Catastrophe Death/several seriously injured personnel	57,71	HIGH	Develop	
73	General	DBA Create/Update Record	Functional	Drop down list	Consequence Type> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.	57	HIGH	Develop	
74	General	DBA Create/Update Record	Functional	lcon	A icon beside the consequence type input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon. TBC.	57,73	HIGH	Develop	
75	General	DBA Create/Update Record	Functional	Textbox	<existing -="" barrier="" barriers="" description=""> The textbox is provided for user to elaborate on the identified existing barrier.</existing>	57	HIGH	Develop	
76	General	DBA Create/Update Record	Functional	Drop down list	<existing -="" barriers="" type=""> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.</existing>	57,75	HIGH	Develop	
77	General	DBA Create/Update Record	Functional	Drop down list	<existing -="" barriers="" dependency=""> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option. The options are dependent on the number of existing barriers that have been identified i.e. s/n. If there is only 1 existing barrier, there will not be any available selection. The selected dependency cannot be the barrier item itself.</existing>	57,75	HIGH	Develop	
78	General	DBA Create/Update Record	Functional	Textbox	<existing -="" barriers="" dependency="" description=""> The textbox is provided for user to elaborate on the identified dependency.</existing>	57,75	HIGH	Develop	
79	General	DBA Create/Update Record	Functional	Button	The <x> button allows the user to delete a barrier item. The entry fields will be removed from the GUI and s/n wll be updated if necessary. If there is only 1 barrier item, the entry fields will not be removed, instead the existing text and selected fields will be cleared.</x>	57,75	HIGH	Develop	
80	General	DBA Create/Update Record	Functional	Scroll Bar	A scroll bar is provided to prevent text overcrowding in the event that there are many barrier items added.	57,75	HIGH	Develop	
81	General	DBA Create/Update Record	Functional	Button	The <add barrier=""> button allows the user to create an additional row of entry fields for Existing Barriers. This function reduces the need for having too many entry fields on the page i.e. cluttering problem.</add>	57,75	HIGH	Develop	

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No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
					A Icon beside the existing parriers input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon. "List the existing barriers in place to avoid the scenario to happen, and the				
					barriers in place to reduce the consequence if it happens. Barriers can be of the following types:				
82	General	DBA Create/Update Record	Functional	lcon	A technical is a barrier that is working without any needed action from a person, i.e. the barrier will physically stop the event chain or physically reduce the consequence. A barrier that is related to organisational issues like procedures, organisation, manning, etc. and is dependent on actions from people to work. A barrier totally dependent on the personnel for doing the right behaviour (e.g. education, training, instructions, procedures, etc.)	57,75	HIGH	Develop	
					Do a short evaluation of the barriers and their independence from each other. Comment on the barrier's "coverage" i.e. if it is covering all scenarios, or only a limited number, and also if special actions are needed. Another factor is if all barriers are related to the same person or action, or if there				
83	General	DBA Create/Update Record	Functional	Textbox	<suggestions (if="" any)=""> The textbox is provided for user to raise any suggestions e.g. to add new barriers. The suggestion will be reviewed for implementation.</suggestions>	57	HIGH	Develop	
84	General	DBA Create/Update Record	Functional	lcon	A icon beside the work type input field containing explanations and provide further clarity to the user. Help text will be displayed when the user mouseover the icon. "Here we should come up with suggestions to improvement of the barriers	57,83	HIGH	Develop	
					for those scenarios that need to be in the acceptable or tolerable area."				
85	General	DBA Create/Update Record	Functional	Button	The <submit> button allows the user to send the completed form to the server, which will be logged and stored in a project specific database. The user will then be directed to the DBA Results page.</submit>	57,83	HIGH	Develop	
87	General	DBA Create/Update Record	Non-functional	GUI	Please refer to DBA mock-up screenshots pages 14 and 16	57,58,63,65,67,69,71, 73,75,83	HIGH	Develop	
88	General	DBA Select Record	Functional	General	The DBA Select Record page allows the user to select and use existing records. In this page, the user is to search for existing records based on Work Type>, <work operation=""> and <potential incident="">.</potential></work>	57,58	HIGH	Develop	LR: Identified as a feature/function but not fully developed yet. Can be discussed with the Client to understand requirements.
89	General	DBA Select Record	Functional	Drop down list	<work type=""> The drop down list contains predefined categories that the user can select. This will filter to relevant work operations for selection.</work>	57,88	HIGH	Develop	
90	General	DBA Select Record	Functional	Drop down list	<work operation=""> The drop down list contains predefined categories that the user can select. This will filter to relevant potential incidents for selection.</work>	57,88	HIGH	Develop	
91	General	DBA Select Record	Functional	Drop down list	<potential incident=""> The drop down list contains predefined categories that the user can select.</potential>	57,88	HIGH	Develop	
92	General	DBA Select Record	Functional	Button	The <cancel> button will close the DBA Select Record page and none of the existing record is selected for use.</cancel>	57,88	HIGH	Develop	
93	General	DBA Select Record	Functional	Button	The <select> button will close the DBA Select Record page and data from the selected record will populate the fields in DBA Create/Update Record page.</select>	57,88	HIGH	Develop	
94	General	DBA Select Record	Non-functional	GUI	Please refer to DBA mock-up screenshots page 15	88	HIGH	Develop	
95	General	DBA User Summary	Functional	General	The DBA User Summary page provides a brief summary and history of user actions e.g. list the past 5 record submissions. The main purpose is to provide quick information about the user activity.		LOW		LR: Identified as a feature/function but requirement not fully developed. To be discussed with the Client, likely not key for MVP.
96	General	DBA User Summary	Non-functional	GUI	N.a.	95	LOW		LR: GUI will be designed in future development.
97	Field	DBA Results	Functional	General	The DBA Results page allows the user to extract existing records in the system according to a selected work type and work operation. The relevant potential incidents will be consolidated, which the user can then choose to print a verification checklist in PDF format for use out in the field.		HIGH	Develop	

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No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
98	Field	DBA Results	Functional	Drop down list	<work type=""> The drop down list contains predefined categories that filters the results by work type. There is a "Select all" option that returns all the work types. <work operation=""></work></work>	97	HIGH	Develop	
99	Field	DBA Results	Functional	Drop down list	The drop down list contains predefined categories that filters the results by work operation. There is a "Select all" option that returns all the work operations.	97	HIGH		
100	Field	DBA Results	Non-functional	GUI	The user will select the <work type=""> and <work operation=""> and the following information will be presented: - Project name and number - Work type and operation category selected - Potential incidents - Risk level of each incident - Barriers that are put in-place Based on the extracted records above, a summary is presented in the format of a risk matrix.</work></work>	97	HIGH	Develop	
101	Field	DBA Results	Functional	Button	Save as PDF> button□ This exports selected results as one (1) PDF document. The Field Engineer can then print a hardcopy of the document to be used for on-site verification. The following information will be included in the document: Extracted from software Project name and number Work type and operation category selected Potential incidents Risk level of each incident Barriers that are put in-place To be filled in during Verification exercise Verification box for barriers Recommendations Additional potential incidents Additional safeguards Performed by Approved by Photos attached Safe Job Analysis conducted	97	HIGH	Develop	LR: SJA process can be digitised in future development.
102	Field	DBA Results	Functional	Button	<upload photos=""> button This allows user to upload photos that are relevant for the project. It shall be noted that photos uploaded into the software will be stored in a general folder created for each project.</upload>	97	MEDIUM		LR: To be included in pilot development UX/UI.
103	Field	DBA Results	Functional	Button	<upload document=""> button This allows user to upload documents that are relevant for the project. It shall be noted that documents uploaded into the software will be stored in a general folder created for each project.</upload>	97	MEDIUM		LR: To be included in pilot development UX/UI.
104	Field	DBA Results	Functional	Button				Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
105	Field	DBA Results	Functional	Button				Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
106	Field	DBA Results	Functional	Administrative	∠Log Sheet>∃ ⊞ Method to track any edits/changes made to work item submitted. This will be managed by Administrator only thus it will only show in Administrator's account. □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.

					SRS & SDS				
No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
107	Field	DBA Results	Functional	Risk Assessment	Consequence Level>□ □ This is determined from the Consequence Rating Matrix based on the parameters defined by user in "Create New Record" tab:□ Consequence□ Consequence type□ <probability level="">□</probability>			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
108	Field	DBA Results	Functional					Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
109	Field	DBA Results	Functional	Risk Assessment				Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
110	Field	DBA Results	Non-functional	GUI	Please refer to DBA mock-up screenshots page 17 to 19	97	HIGH	Develop	
111	General	DBA Summary	Functional	General	The DBA Summary page allows the user to view key statistics relating to the project. This includes the consolidation of suggestions in the system and allows the user to follow through with an action plan. <overall summary=""> Shows current status through the following numbers: - Number of records - Number of recommendations - Number of critical issues to be resolved</overall>		HIGH	Develop	
112	General	DBA Summary	Functional	Drop down list	<work type=""> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.</work>	111	MEDIUM		LR: To be included in pilot development UX/UI.
113	General	DBA Summary	Functional	Drop down list	<work operation=""> The drop down list contains predefined categories that the user can select for his submission. This prevents miscategorization due to typography errors and is more user friendly as an input option.</work>	111	MEDIUM		LR: To be included in pilot development UX/UI.
114	General	DBA Summary	Non-functional	Graphs	<risk bar="" graph="" level=""> Depicts the risk level for each work incident of interest, evaluated by the assigned consequence rating and existing barriers.</risk>	111	MEDIUM		LR: To be included in pilot development UX/UI.
115	General	DBA Summary	Non-functional	Graphs	<barrier bar="" graph="" statistics=""> Depicts the total number of barriers and the breakdown into the various types (i.e. M, T, O) for each work incident of interest.</barrier>	111	MEDIUM		LR: To be included in pilot development UX/UI.
116	General	DBA Summary	Functional	Graphs	Represents the percentages of M, T or O type barrier.			Delete	LR: Only existing barriers are considered LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
117	General	DBA Summary	Functional	Button	<time bar="" period=""> Allows user to define period of interest for risk statistics line graph.</time>			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
118	General	DBA Summary	Functional	Drop down list	Orop down list for Risk Category> Presents in risk statistics line graph.			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
119	General	DBA Summary	Non-functional	Graphs	Risk Statistics Line Graph> Presents the number of records for each risk category (i.e. Acceptable, Tolerable, ALARP and Not Acceptable) aginst time.			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
120	General	DBA Summary	Functional	Button	Export Records to PDF> Button Exports records to PDF format.			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
121	General	DBA Summary	Functional	Button	Export Records to Excel > Button Exports records to Excel format.			Delete	LR: Based on Infratek's requirement, this item is deemed to be unnecessary and will be removed from the form.
122	General	DBA Summary	Functional	Button	<export charts="" pdf="" to=""> Buttons Exports charts to PDF format.</export>	111	MEDIUM		LR: To be included in pilot development UX/UI.

					SRS & SDS				
No.	Personnel Type	Page	Туре	Category	Description	Dependencies	Priority	Action	Comments
123	General	DBA Summary	Non-functional	Table	<recommendations list=""> All suggestions in the system, from upload of the Barrier Analysis worksheet or new record or update record, will be consolidated and shown here in the system.</recommendations>	111	HIGH	Develop	
124	General	DBA Summary	Functional	Button	<edit action="" plan=""> button This brings the user to the DBA Action Plan page.</edit>	111	MEDIUM		LR: To be included in pilot development UX/UI.
125	General	DBA Summary	Functional	Button	<export list="" recommendations=""></export>	111	HIGH	Develop	
126	General	DBA Summary	Non-functional	GUI	Please refer to DBA mock-up screenshots pages 20 and 21	111	HIGH	Develop	
127	General	DBA Action Plan	Functional	General	The DBA Action Plan page allows the user to edit the consolidated list of suggestions and update their statuses.	111	MEDIUM		
128	General	DBA Action Plan	Functional	Table	The user is able to edit the fields in the table, to update the status of any listed suggestion.	111,127	MEDIUM		
129	General	DBA Action Plan	Functional	Button	<cancel> button This will allow the user to navigate back to the DBA Summary page without saving changes made to any field in the table.</cancel>	127	MEDIUM		
130	General	DBA Action Plan	Functional	Button	<save> button This will allow the user to save any changes made to any field in the table. The user will then be brought back to the DBA Summary page.</save>	127	MEDIUM		
131	General	DBA Action Plan	Non-functional	GUI	Please refer to DBA mock-up screenshots page 22	127	MEDIUM		
132	General	-	Functional	General	Development of an App for use on mobile devices.		MEDIUM		LR: For the pilot phase, the web browser will be responsive to screen size (responsive web design)
133	Field	DBA Results	Functional	Button	<safe analysis="" job=""> button□ □ This brings the user to the Safe Job Analysis page whereby the SJA process is digitised within this tool. The Field Engineer is able to perform SJA within the tool, save and store the information.</safe>	101	MEDIUM		

LEGEND:

HIGH Items that will be developed for the pilot phase

MEDIUM Items that are client requirements but will not be developed under the pilot phase

LOW Items that are good-to have but will no the developed under the pilot phase