



Teacher Student Connect

Business Requirements Document

V1.0

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1.0 Introduction

1.1 Purpose of this document

This document is aimed at:

- Providing the necessary inputs to the detailed requirements gathering phase and further on for the SDLC processes.
- This document also serves to establish the traceability between the Business Objectives and the requirements identified in the proposed solution and how they satisfy the stated objectives.
- Provide expectation traceability in terms of the requirements and the user expectation
- Serves as a formal template for documenting the Business Requirements that also includes statutory and regulatory requirements.

The purpose of this document is to systematically capture the requirements of the project and the system to be developed. The document also captures the Functional requirements and serves as an input for the scope of project.

1.2 Project Overview

Creating an online Repository that contains a collection of learning and teaching materials flowing from Teachers and Students on a regular basis.

An Interactive UI platform that allows the Teachers and Students to digitally connect.

1.2.1 Objectives

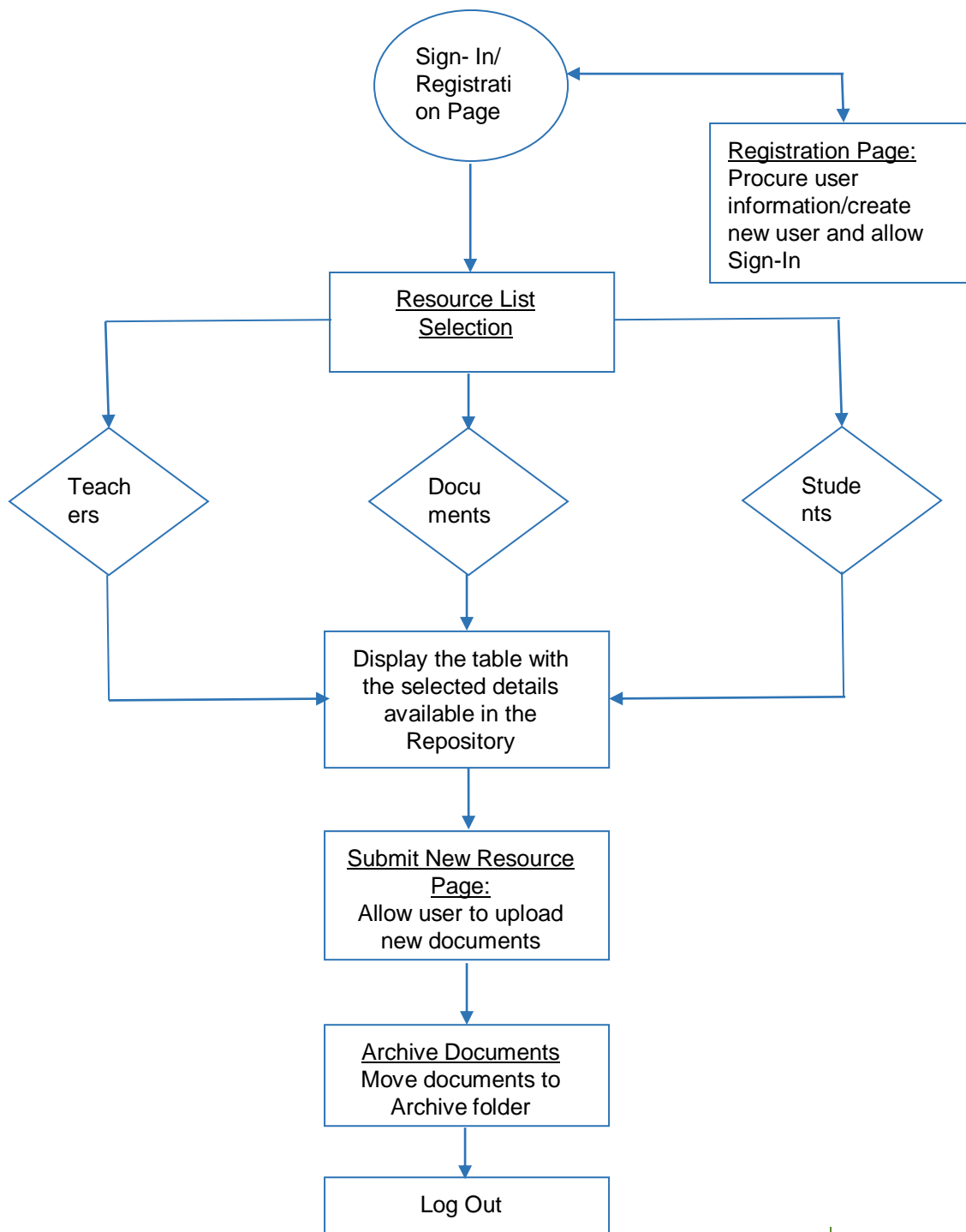
Below are the objectives that shall be fulfilled post the execution of this project:

- Teachers and Students can view/engage in the courses from anywhere and anytime.
- Discovery and retrieval of the learning materials from the repository along with other reference materials.
- Reuse of learning content.
- Cost effective and cost efficient solution of online knowledge base by hosting the repository on Cloud.
- Digital platform for the connect between Teachers and Students.

1.3 Intended Audience

- GenC/Project Team
- Mentors and SME's
- Delivery Assurance/Excellence Group

2.0 Process Architecture



3.0 High Level Business Requirements

Note - Primary focus is to complete developing the critical requirements (highlighted in Yellow) and then to proceed with the remaining requirements.

S.No.	Business Requirement ID	Short Description	Description in detail	Interacting Business Processes
1	Req_1	New User Registration	Ability of the portal to procure user data and create new user profiles	
2	Req_2	User login	Ability of the portal to authenticate and authorize the registered user	
3	Req_3	Admin Registration	Ability of the system to procure the fundamental details of the user	
4	Req_4	Admin Authentication	Ability of the system to authenticate the user credentials of the registered Admin	
5	Req_5	Super user credentials	Ability of the system to have the Super user login	
6	Req_6	Approval of Admin registration	Ability of the system to allow super user to approve / deny the admin registration	
7	Req_7	Add Resources	Ability of the system to allow admin to add the resource content	
8	Req_8	Update Resources	Ability of the system to allow admin to update the resource available in the system	
9	Req_9	Add skills and map resource	Ability of the system to allow admin to add the skills and map the available resources to the skills.	
10	Req_10	Skill based search	Ability of the system to select the skills based on the user interest.	
11	Req_11	Resource List	Displays the complete list of selected resources available in the repository	
12	Req_12	Advanced Search	Allows the user to search for specific Documents/Teacher/Student	
13	Req_13	Submit new resource	Allows the Teachers or Students to upload new documents to the repository	
14	Req_14	Archive Documents	Allows the Teachers to move the documents to archive folder	
15	Req_15	Help	Page to assist the users to report technical issues	
16	Req_16	Online chat	Ability of the system to allow the users to chat online	
17	Req_17	Admin Report	Ability of the system to get the report of the available learnings, Number of users	

			taken the learning, feedback reports.	
18	Req_18	User report	Ability of the system to list the resources uploaded for the User login.	
19	Req_19	User feedback	Ability of the system to pop up feedback to the user upon completion of the reference resource.	
20	Req_20	Feedback Report	Ability of the system to generate report on the resource based on the User feedback.	
21	Req_21	Log off	Ability of the system to allow the User to disconnect by logging off.	
22	Req_22	Other validations	Ability of the system to allow add on validations like Forget User ID, Forget Password	

4.0 Detailed Business Requirements

4.1 Functional Requirements

The functional requirements are projected below, for each of the high-level requirements called out in the earlier section

Additionally, the following elements are captured for each business requirement in the table provided below:-

* Req. Type = (F Core Functionality, E Exception, UI User Interface, R Reporting)

** Priority of Requirement = (1=Base Functionality, 2=Advanced Functionality, 3=Additional Opportunities)

** Originator = (Name of the business process of the system/ department or function name in the customer organization)

The Requirements in this document are prioritized as follows:

Value	Rating	Description
1	Critical	This requirement is critical to the success of the project. The project will not be possible without this requirement.
2	High	This requirement is high priority, but the project can be implemented at a bare minimum without this requirement.
3	Medium	This requirement is somewhat important, as it provides some value but the project can proceed without it.
4	Low	This is a low priority requirement or a "nice to have" feature, if time and cost allow it.
5	Future	This requirement is out of scope for this project, and has been included here for a possible future release.

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_1.1	New User Registration	Clicking on the "Register" button should open the Registration form.	UI	Critical	NA	Req_1	
Req_1.2	New User Registration	User to fill the basic attributes: First Name Last Name Age Gender Contact Number Category User Id Password Picture	UI	Critical	NA	Req_1	Please refer Table 1.0 under References section
Req_1.3	New User Registration	Clicking 'Submit' button should validate the datatype constraints for each field	F	Critical	NA	Req_1	
Req_1.4	New User Registration	User failing to provide information for the mandatory fields be presented with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Medium	NA	Req_1	
Req_1.5	New User Registration	Post-successful field validation, save the information in the database	F	Critical	NA	Req_1	
Req_1.6	New User Registration	Upon saving the information in the database, display the message "New user created successfully"	E	Medium	NA	Req_1	
Req_2.1	User login	Clicking "Sign In" link should allow the user to enter the User ID and Password and click "Login" button	F	Critical	NA	Req_2	
Req_2.2	User login	Portal to validate the entered user credentials against the database and allow login for registered users.	F	Critical	NA	Req_2	
Req_3.1	Admin Registration	When the Admin clicks on the registration link, it should re-direct to registration form.	UI	Critical	NA	Req_3	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_3.2	Admin Registration	Admin needs to fill some of the basic attributes/fields as mentioned below in requirement: First Name, Last Name, Age, Gender, Contact Number, Admin Id, Password	UI	Critical	NA	Req_3	
Req_3.3	Admin Registration	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_3	
Req_3.4	Admin Registration	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Medium	NA	Req_3	
Req_3.5	Admin Registration	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_3	
Req_3.6	Admin Registration	Upon saving the information in the database, display the message, 'Your details are submitted successfully'.	E	Medium	NA	Req_3	
Req_4.1	Credential Authentication	A registered Admin – is able click 'Login' link, after keying in 'Admin ID' & 'Password' field and get his credentials authenticated with the existing database entry.	F	Critical	NA	Req_4	
Req_5.1	Super user credentials	System should have a Super User Login to allow approval/denial of registration.	F	Critical	NA	Req_5	
Req_6.1	Approval of Admin registration	Super user should be able to approve or reject the admin registration	F	Critical	NA	Req_6	
Req_6.2	Approval of Admin registration	Upon approval, Admin should be able to log in successfully	F	Critical	NA	Req_6	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_6.3	Approval of Admin registration	On rejection, Admin when tries to login, should not allow login. Should display message "Registration not successful"	F	Critical	NA	Req_6	
Req_7.1	Add Resource content	Admin on clicking add Resource should redirect to the Resource Addition page	F	Critical	NA	Req_7	
Req_7.2	Add Resource content	Admin needs to fill some of the basic attributes/fields as mentioned below in requirement: Resource Code, Resource Description, Skills.	UI	Critical	NA	Req_7	
Req_7.3	Add Resource content	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_7	
Req_7.4	Add Resource content	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Medium	NA	Req_7	
Req_7.5	Add Resource content	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_7	
Req_7.6	Add Resource content	Upon saving the information in the database, display the message, 'Your details are submitted successfully'.	E	Medium	NA	Req_7	
Req_8.1	Update Resource content	Admin on clicking Resource List, should list down all the available courses in the system.	F	Critical	NA	Req_8	
Req_8.2	Update Resource Content	Admin on clicking the Resource ID should be able to edit the course details.	UI	Critical	NA	Req_8	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_8.3	Update Resource Content	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_8	
Req_8.4	Update Resource Content	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Medium	NA	Req_8	
Req_8.5	Update Resource Content	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_8	
Req_9.1	Add skills and map Resource	Admin on clicking Add Skills should redirect to the Skills Addition page.	F	Critical	NA	Req_9	
Req_9.2	Add skills and map Resource	Admin needs to fill some of the basic attributes/fields as mentioned below in requirement: Resource Code, Resource Description, Skills, Competency level, and Intended audience.	UI	Critical	NA	Req_9	
Req_9.3	Add skills and map Resource	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_9	
Req_9.4	Add skills and map Resource	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Medium	NA	Req_9	
Req_9.5	Add skills and map Resource	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_9	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_9.6	Add skills and map Resource	Upon saving the information in the database, display the message, 'Your details are submitted successfully'.	E	Medium	NA	Req_9	
Req_10.1	Skill/ Resource selection	User on Clicking List Skills should redirect to page, which will list all the Skills available in the database.	F	Critical	NA	Req_10	
Req_10.2	Skill/ Resource selection	User on selecting the Skill, the system should list all the Resources mapped for that skill.	F	Critical	NA	Req_10	
Req_10.3	Skill/ Resource selection	User should be able to select a Resource and view its details and prerequisites.	F	Critical	NA	Req_10	
Req_11.1	Resource List	Clicking on "Resource List" link should display the below choices: Document Teacher Student	F	Critical	NA	Req_11	
Req_11.2	Resource List	Portal to allow the user to select the required choice from the above	UI	Critical	NA	Req_11	
Req_11.3	Resource List	Selecting "Document" should display table format of the entire list of documents that are stored in the repository	F	Critical	NA	Req_11	Please refer Table 2.0 under References section
Req_11.4	Resource List	Allow user to choose sorting order: Sort by Year (Newest First) Sort by Year (Oldest First) Sort by Title (A to Z) Sort by Title (Z to A) Sort by Author (A to Z) Sort by Author (Z to A) Sort by Subject (A to Z) Sort by Subject (Z to A)	UI	Critical	NA	Req_11	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_11.5	Resource List	Selecting a particular document from the resultant table should allow the user to preview the document in a new tab	F	Critical	NA	Req_11	
Req_11.6	Resource List	Selecting "Teacher" should display table format of the complete list of Teachers, registered in the portal	F	Critical	NA	Req_11	Please refer Table 3.0 under References section
Req_11.7	Resource List	Allow user to choose sorting order: Sort by Name (A to Z) Sort by Name (Z to A) Sort by Specialization (A to Z) Sort by Specialization (Z to A)	UI	Critical	NA	Req_11	
Req_11.8	Resource List	Clicking on a particular Teacher details from the resultant table should allow the user to preview the details in a new tab	F	Critical	NA	Req_11	
Req_11.9	Resource List	Clicking on the "Assigned classes, schedule" hyperlink should open a new tab with the schedule in table format	F	Critical	NA	Req_11	Please refer Table 4.0 under References section
Req_11.10	Resource List	Selecting "Student" should display table format of the complete list of Students registered in the portal	F	Critical	NA	Req_11	Please refer Table 5.0 under References section
Req_11.11	Resource List	Allow user to choose sorting order: Sort by Name (A to Z) Sort by Name (Z to A) Sort by Batch (A to Z) Sort by Batch (Z to A)	UI	Critical	NA	Req_11	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_11.12	Resource List	Selecting a particular Student details from the resultant table should allow the user to preview the details in a new tab	F	Critical	NA	Req_11	
Req_12.1	Advanced Search	Clicking "Advanced Search" should display a form with below fields: Keyword Search Title Author Subject Year	UI	Critical	NA	Req_12	The search criteria should have logical operators like "AND" / "OR" Please refer Table 5.0 under References section
Req_12.2	Advanced Search	The display form should have buttons to "Submit Query" or "Reset" the fields	UI	Critical	NA	Req_12	
Req_12.3	Advanced Search	Clicking on "Submit Query" button should display the required documents and allow user to download the file	UI	Critical	NA	Req_12	
Req_13.1	Submit new Resource	Clicking "Submit new Resource" should display a form with below fields: Subject/Topic Title Author Subject Year Upload/Attach file	UI	Critical	NA	Req_13	Please refer Table 6.0 under References section
Req_13.2	Submit new Resource	Clicking on "Submit" button should perform backend validation of the user profile and upload the document	F	Critical	NA	Req_13	
Req_14.1	Archive Document	Portal capability to allow Teachers to archive documents	F	Medium	NA	Req_14	Access to Archive documents should only be provided for Teachers.
Req_15.1	Help	Page that displays the basic details text about how to search documents	F	Low	NA	Req_15	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_15.2	Help	Portal to display a form that allows user to report the technical issues through Email: Issue Description Send Button	F	Low	NA	Req_15	Please refer Table 7.0 under References section
Req_15.3	Help	Portal to display the Contact number to report issues	F	Low	NA	Req_15	
Req_16.1	Online chat	System should have the option for the users to chat online	UI	Low	NA	Req_16	
Req_17.1	Admin report	When Admin clicks, Reporting link, It should list Assessment, ELearning	F	Critical	NA	Req_17	
Req_17.2	Admin report	On clicking ELearning, it should display all the available course code	F	Critical	NA	Req_17	
Req_17.3	Admin report	On clicking the course code, it should display the details of number of users taken the course, Feedback on the course content.	F	Critical	NA	Req_17	
Req_17.4	Admin report	Admin should have option to display all the course or skill based.	F	Critical	NA	Req_17	
Req_17.5	Admin report	Admin should have the option to pull the report by giving course ID	F	Critical	NA	Req_17	
Req_18.1	User report	When User clicks, Learning Report link, It should list all the Assessment, ELearning taken by the user.	F	Critical	NA	Req_18	
Req_19.1	User feedback	Admin should have the option to update the Feedback question for each course / assessment present in the system	F	Critical	NA	Req_19	
Req_19.2	User feedback	When the user completes the course / assessment, it should redirect to the feedback form and the user need to fill and submit.	F	Critical	NA	Req_19	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_20.1	Feedback report	Admin on clicking feedback report link, it should display all the available Courses / Assessment	F	Critical	NA	Req_20	
Req_20.2	Feedback report	On selecting the Course / Assessment, the feedback result should be displayed.	F	Critical	NA	Req_20	
Req_20.3	Feedback report	Admin should be able to search based on skill	F	Critical	NA	Req_20	
Req_21.1	Log off	On clicking Log off Admin / User should be disconnected from the system.	F	Critical	NA	Req_21	
Req_22.1	Other validations	User should have the options for resetting password by clicking forgot password	F	Critical	NA	Req_22	
Req_22.2	Other validations	User should be able to reset the password. Have secret question and answers for this.	F	Critical	NA	Req_22	

5.0 References

Note: Table details can be altered as required. Additional tables can be added if needed

5.1 Table 1.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male, Female
Contact Number	Text(10)	Numeric	No	
Category	Drop Down	NA	Yes	Teacher/Student
User ID	Text(15)	Alphanumeric	Yes	User ID
Password	Text(15)	Alphanumeric	Yes	Password
Picture	Button	gif, jpeg, png	Yes	

5.2 Table 2.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Image of the Cover page	Image	gif, jpeg, png	Yes	
Title	Text(100)	Alphanumeric	Yes	
Author	Text(50)	Alphabetic	Yes	
Subject	Text(50)	Alphabetic	Yes	
Year	Numeric(4)	Numeric	Yes	
File	Document	Word, Excel, PDF, etc.	Yes	

5.3 Table 3.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Image of the Teacher	Image	gif, jpeg, png	Yes	
Name	Text(100)	Alphabetic	Yes	
Specialization	Text(100)	Alphabetic	Yes	
Assigned classes, schedule	Hyperlink	Alphanumeric	Yes	
Number of students	Numeric(4)	Numeric	Yes	
Planned Leaves	Alphanumeric(4)	Alphanumeric	No	

5.4 Table 4.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Date	Alphanumeric(10)	Alphanumeric	Yes	
Time	Alphanumeric(10)	Alphanumeric	Yes	
Batch	Text(10)	Numeric	Yes	
Subject	Text(10)	Alphabetic	Yes	
Notes	Hyperlink	Alphabetic	Yes	

5.5 Table 5.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Image of the Student	Image	gif, jpeg, png	Yes	
Name	Text(100)	Alphabetic	Yes	
Specializat	Text(100)	Alphabetic	Yes	

ion				
Batch	Numeric(8)	Numeric	Yes	
No. of documents uploaded	Numeric(4)	Hyperlink	Yes	

5.6 Table 6.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Keyword Search	Text(50)	Alphabetic	No	
Title	Text(50)	Alphabetic	No	
Author	Drop Down	NA	No	
Subject	Drop Down	NA		Subject Names
Year	Drop Down	Numeric	No	2000 to 2019

5.7 Table 7.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Subject/Topic	Text(50)	Alphabetic	Yes	
Title	Text(50)	Alphabetic	Yes	
Author	Drop Down	NA	Yes	
Subject	Drop Down	NA	Yes	Subject Names
Year	Drop Down	Numeric	Yes	2000 to 2019

5.8 Table 8.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Issue	Text(100)	Alphabetic	Yes	
Description	Text(300)	Alphabetic	Yes	

6.0 Terms and Conditions

GenC shall be solely responsible for all its acts and omissions under this program. GenC will comply at all times with all applicable laws. GenC shall not use Cognizant's name, logo and trademark in any promotional materials or other communications with third parties without the prior written consent of Cognizant. Any materials used by GenC in relation to program will not infringe the copyrights, trademarks, patents, trade secrets or other intellectual property rights, privacy or similar rights of any person or entity. GenC agrees not to post, draw, make, display any content that is threatening, libelous, obscene, defamatory, abusive, pornographic, or advocates/encourages any conduct that could constitute a criminal offence or give rise to any civil liability. Cognizant its associates' personal details including but not limited to name, address, contact number shall not be shared or forwarded to any third party, without prior written consent of Cognizant, its associates. All intellectual property provided by Cognizant as part of program shall be owned exclusively by Cognizant. Intern shall indemnify, defend and indemnify Cognizant its associates, officers, directors from and against any claims, demands, loss, damage, liability, causes of action, judgments, or costs and expenses of every nature (including attorney's fees and expenses) incurred by



Cognizant based on any claim that any breach of terms and conditions of this program.

7.0 Change Log

Version Number	Changes Made			
V1.0.0	Initial baseline created on			
V1.0.1				
	Section No.	Changed By	Effective Date	Changes Effected