SOFTWARE REQUIREMENT SPECIFICATION

FOR

DIRECTORATE OF COORDINATION POLICE WIRELESS (DCPW)

(MINISTRY OF HOME AFFAIRS)

(GOVERNMENT OF INDIA)

VERSION 1.0

DOCUMENT REVISION CONTROL

Document History :

	Name	Role	Date
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Reviewed By			
Approved By			

Revision History :

S No.	Date	Version No	Page No	Change Mode(A/M/D)	Brief Description change
1.					

A-Added, M-Modified, D-Deleted

TABLE OF CONTENT

1. Introduction

Directorate of Coordination Police Wireless came into existence on 19th Feb 1946, initially as 'Inspectorate of Wireless' and was later accorded the status of Directorate of Coordination (Police Wireless), a subordinate organization, under Ministry of Home Affairs in 1950. It was entrusted with the responsibility of coordinating for developing and establishing the Police Telecommunication network in the country and also to advise MHAon all Police Telecommunication matters.

DCPW wants to develop its website to enhance its overall look & feel, to ensure compliance with "Guidelines for Indian Government Websites (GIGW), to ensure that information is easily available through minimum number of clicks, the information is accessible to under privileged people and that the overall information is easily manageable.

1.1 Purpose of the document :

The purpose of this document is to formally present an annotated outline of the system requirements of the website under development. It will be helpful in describing the purpose, features, interfaces and the constraints under which the system must operate and its reaction to external stimuli. This specification is intended for both department officials as well as for the team of developers of the system.

Objective

The Directorate of Coordination Police Wireless wants to develop its new website with the following objectives:

2.1 To enhance the overall look and feel of the website.

2.2 To integrate advanced, easy to use content management system with role based rights for easily managing overall content of the website

2.3 To develop Bi-lingual Website with English & Hindi Version and to ensure that Hindi content is universallyaccessible by using Unicode compliant font.

2.4 To make site accessible on all platforms like Linux, windows, all mobile phones which support GPRS services, disabled specific devices.

2.5 To make site accessible on all browsers like Internet explorer, Mozilla, Chrome, MS Edge Etc.

2.6 To provide information to citizens with minimum number of clicks.

2.7 To ensure compliance with "Guidelines for Indian Government Websites (GIGW 3.0)", covering all the points.

2.8 To restructure content of the website to make it disabled friendly so that the available informationis easily accessible to people with disability.

2.9 To get security certificate from cert-in empanelled vendor.

Benefits

3.1 Increased Transparency

3.2 Improved Usability

3.3 Disabled Friendly

3.4 Increased user Base

3.5 Universal Accessibility

3.6 Easy management of tenders, notices, circulars, and other documents.

3.7 Accessible on all platforms like Windows, Mobile phones etc.

3.8 Grater potentials user-base which will include the disabled, elderly and non-english speaking of the population.

1.2 Scope

1.2.1 In the Scope

As per the Proposal for the Redevelopment of the Website Directorate of Coordination Police Wireless (DCPW) (Website_DCPW_Version 1.0)

- Compliance with Government "Guidelines for Indian Government Websites".
- Accessible website Structure
- Billingual Management Module Development
- What's new (News and Announcements) Module
- Tender/Notice Module (Admin and user control)
- Vacancy / Recruitment Module
- Banner Management Module
- Important Information
- Director's Module
- Photo Gallery Module (Auto annotations)
- Feedback Module
- Orders / Circular Management Module
- Employee corner Module/ Login Module for DCPW employees at various DCPW establishment (CPRTI, POLNET Hub, RPWTIs and ISPW Stations)
- Development of Content Management System (CMS) with 2 Stage workflow
- Development of Archives Management Module
- Links to Social Media
- Archives Management Module Development (Automatic Management)
- Site Search Module (Restrictive and Non Restrictive Mode)
- Event Management Module
- Website Statics Module
- Search Engine Optimization
- Population of content on the New Website
- Safe to host Certificate
- GIGW Compliance Audit Certificate From STQC
- Configuration of Server
- Onetime Onsite Training

1.2.2 Out of Scope
- Domain Name Registration
- Website Hosting
- Content Writing
- Photo Collection
- Ensuring accessibility of documents like .doc, .xls, .pdf files
- Hardware

1.3 Proposed Flow

The proposed flow has been given for general public for visiting the website for viewing general information present on the website and the Administration part for maintaining the website.

1.3.1 Use Cases for General Website Visitor

The general visitor would be able to view the content of the website, search the website content, View the images and will have accessibility options. It can be shown through below Use Case Diagram:
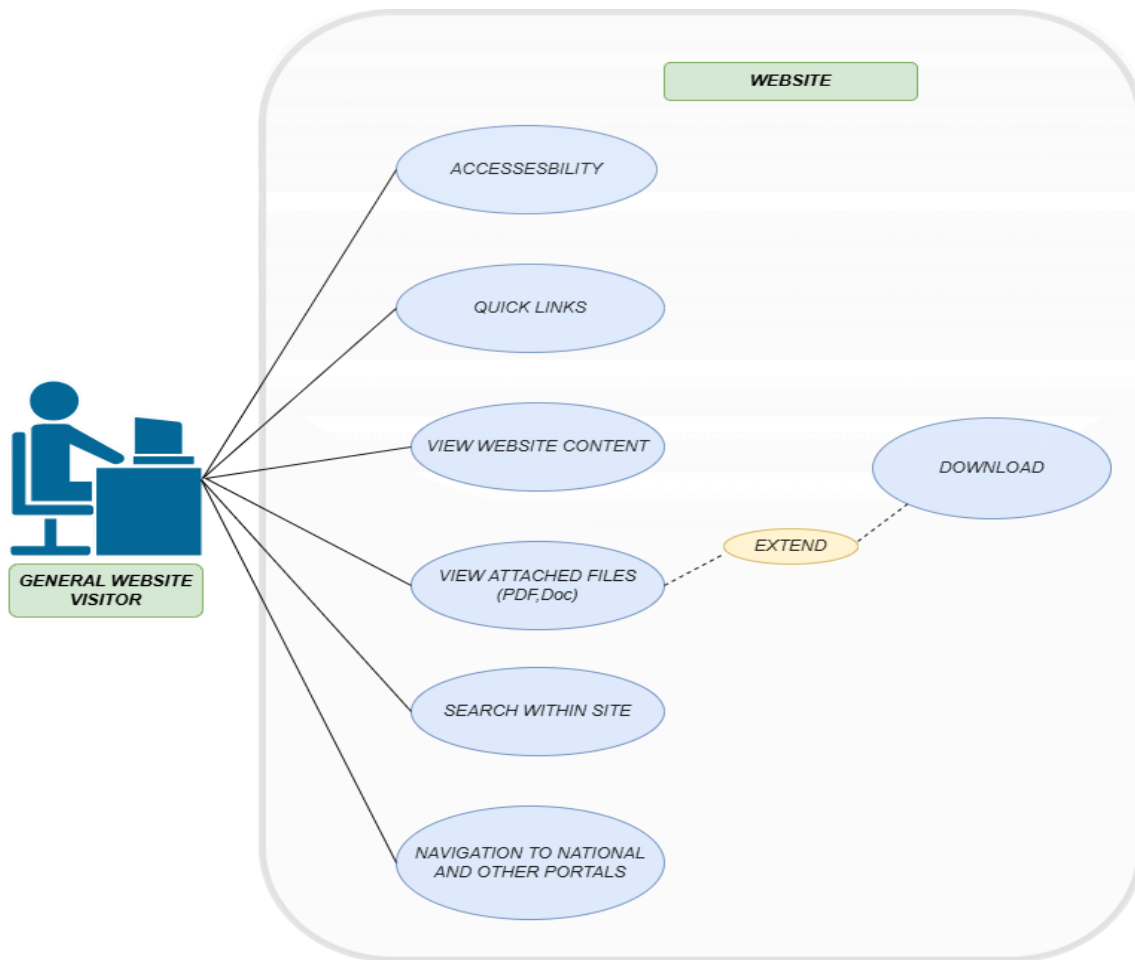
Use Case ID	U001
Use Case Name	General Website Visitor
Use Case Description	A General website visitor can view all the content present on the website without any login as shown in use case diagram.

1.3.2 Use Case for Administration fir Content Management System (CMS)

❖ **Super Admin :** Super Admin will have all the permission for managing content, creating users and assigning roles to them. It's functions could be displayed through below use case diagram:
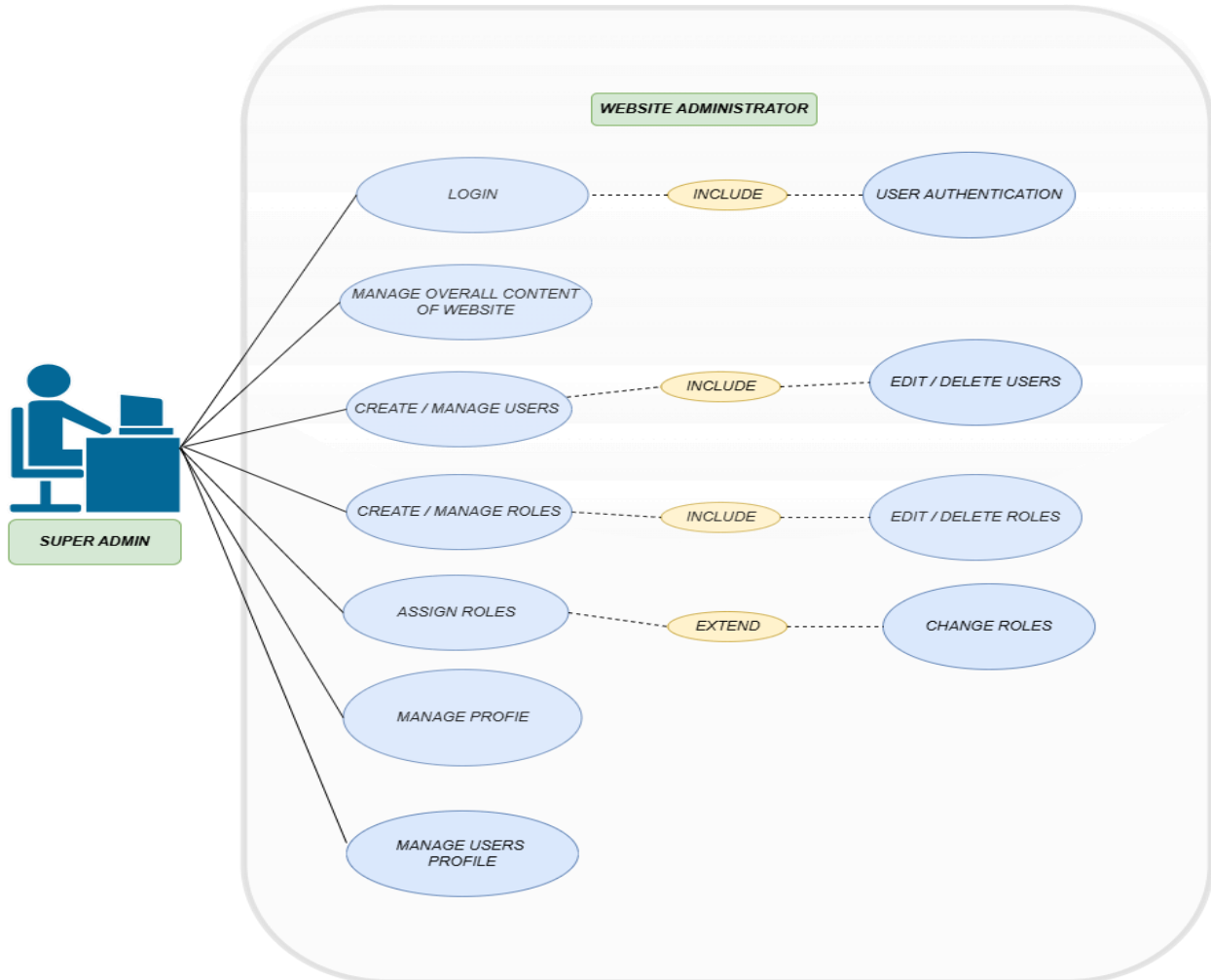
Use Case ID	U002
Use Case Name	Super Admin
Use Case Description	Super Admin will have all the permission for managing overall content of the website, creating users and assigning roles.
Basic Flow	The Super Admin will first login into admin terminal. Only after successful login he can perform his function.
Prerequisite	The Login name and Password should be valid.

❖ **Use Cases for Creator**: A Creator is Created by Super Admin. He can manage his profile; Add/Edit/Delete Contents for Modules assigned by Super Admin and send the content for approval to the publisher.
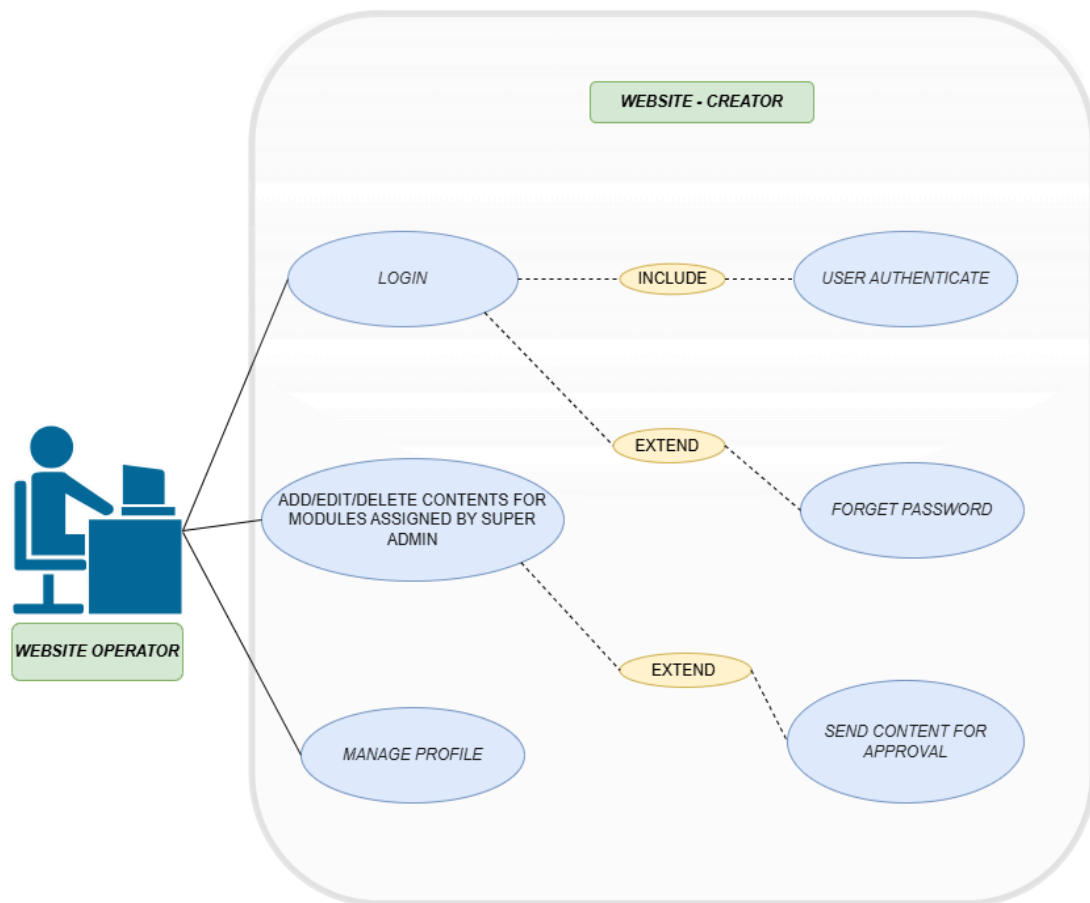
Use Case ID	U003
Use Case Name	Creator
Use Case Description	Creator can access to all the permissions being assigned by the Admin. It can manage Profile, Add/edit/delete Contents for modules assigned by Super admin send the content for Approval.
Basic Flow	Creator will first login into its admin terminal. Only after successful login he can perform his functions.

Alternate Flow	If the Creator does not enter the correct password then a link for forget password would be given to get the same.
Prerequiste	The Login name and password should be valid.

❖ **Use Case Publisher:** A publisher can Edit/Review and publish the content on website.
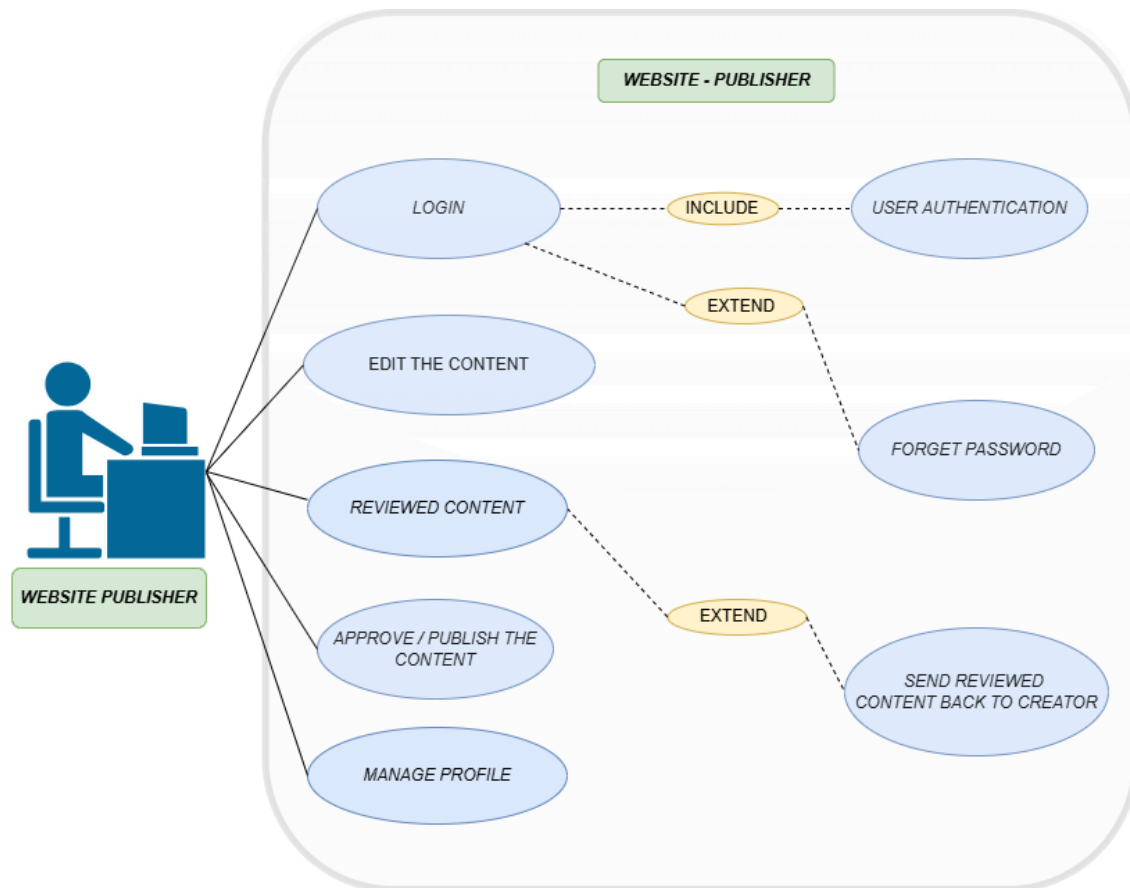
Use Case ID	U005
Use Case Name	Publisher
Use Case Description	Publisher will have all the permissions being assigned by the Super Admin. The Publisher can edit, publish, disapprove and review the content.
Basic Flow	The Publisher will first login into admin terminal. Only after successful login he can perform his functions.

Alternate Flow	If the Publisher does not enter the correct password then a link for forgot password would be given to get the same.
Prerequisite	The Login name and password should be valid.

❖ **Workflow Diagram-Back End**
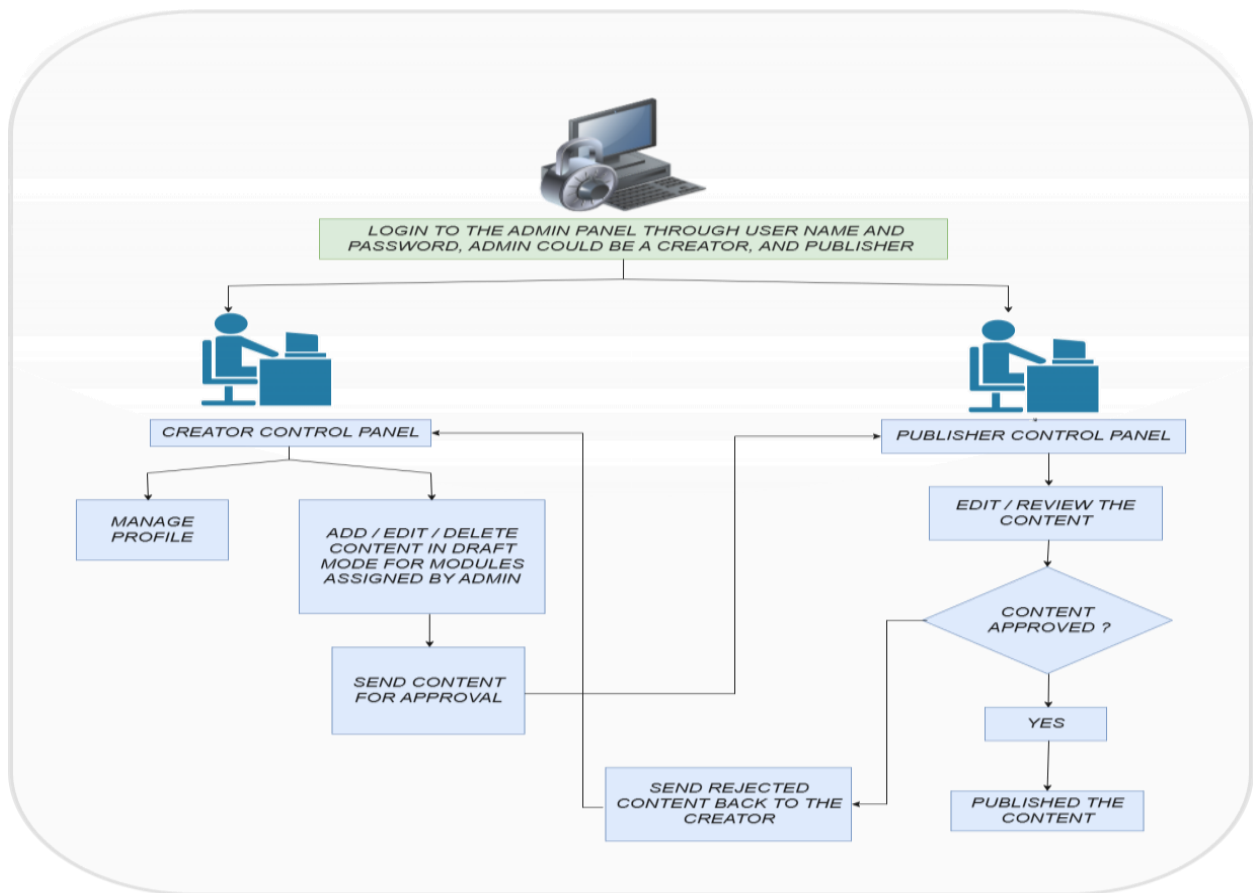
1.4 Acronyms and Abbreviations

The Below table consist of the lost of all the acronyms and abbreviations used in this document for reader's reference:

Term	Description
Admin	Administrator who is responsible for managing the whole website
CMS	Content Management System
General Visitor	Anyone who visits website of DCPW
Product	Any system which in general can be any software, website, application, etc. which isin consideration for development
GIGW	Guidelines for Indian Government Websites
Proposal	Proposal is a document which is based upon the understanding of the requirements as stated by department officials. This included proposed solution architecture, project management plan, critical success factors and change management process.
SRS	A document that completely describes all of the functions of a proposed system And the constraints under which it must operate
Req. No.	Requirement Number
A	Alphabetical Input
AN	Alpha Numerical Input
N	Numerical Input
M	Mandatory Field
O	Optional Field

1.5 References

As per the Proposal for the Redevelopment of the Website Directorate of Coordination Police Wireless (DCPW) (Website_DCPW_Version 1.0)
- ❖ Discussion with DCPW team
- ❖ Date: 27 May 2024
- ❖ Version : VERSION 1.0

1.6 Audience and Reading Suggestion

This document is prepared to assure the user department that the development team has really understood the requirements properly. This also provides inputs for the development team to understand the functionality in detail. The information is organized in such a way that the developers will not only understand the boundaries within which they need to work, but also what functionality needs to be developed and in what order. The various audiences targeted in the document are - user department, developers, designers, testers, and business development team and project managers. The reading suggestions for various audiences:-

- ❖ **User Department :** Product scope, product functionality, user and characteristics, specific requirements and non- functional requirements.
- ❖ **Developers :** Functional requirement specification, non-functional requirement specification and use cases.
- ❖ **Designers :** User interface and Design & implement constraints.
- ❖ **Tester :** functional and non-functional requirement specification.
- ❖ **Business Development Team :** whole document.
- ❖ **Project Managers:** overall description, external user interface

2. Overall Description

2.1 Product Perspective

This product is development of the Directorate of Coordination Police Wireless (DCPW).

2.2 Product Function

❖ **Requirement No. 1 : Compliance with Government "Guidelines for Indian Government Websites"**

Solution : The Government of India has launched "Guidelines for Indian Government Websites". The Website is to be developed as per the guidelines defined and ensure complete compliance with the GIGW. The website will be developed based on guidelines compliant template for IA and UI design so that it is as per GIGW guidelines and is universally accessible. This will be ensured by:

a. Development of screen reader friendly website.
b. Structuring overall content with proper heading structure.
c. Ensuring compatibility with all major browsers like Internet Explorer 9.0 version onwards, Mozilla Firefox 19.0 version onwards and Google Chrome 31.0 version onwards.

❖ **Requirement No. 2 : Accessible Website Structure**
Solution : The vendor should do the following for accessibility:
  a. Develop website as differently enabled friendly.

  b. Restructure overall content with proper tagging to make them
     screen reader friendly.

  c. Ensure Compatibility with all Internet browsers like Internet
     Explorer, Mozilla Firefox, Linux and all smart mobile phones
     whichsupport GPRS services.

  d. Develop Resolution independent design structure

❖ **Requirement No. 3 : Bilingual Management Module Development**
Solution :
a. The website should be developed in English & Hindi Version.
b. Scope of another language: Facility should be provided to add new page of another language inUnicode.
c. The front-end website as well as the backend administrator panel shall be made compliant tohandle the Bi-lingual requirements.
d. Front-end Web Portal shall have all the content including dynamic & static text in both thelanguages.

e. The web site should allow Administrator to enter content for all the CMS Pages separately inHindi also.

❖ **Requirement No. 4 : What's New (News and Announcements) Module**
Solution : This module will help Department in publishing their's New internally or externally. This module will have following features:

a. Administrator will be able to publish latest what's New on the website with details like name,start date, end date and venue etc.
b. Where website visitor will be able to see upcoming what New is in the department.
c. Define expiry date for each what's New for automatic transfer into the archives section (Admin panel) after specified period.
d. Administrator will be able to View/Add/Edit/Delete what New is by adding News Titles and Details through WYSIWYG editor.

❖ **Requirement No. 5 : Tender/Notice Module (Admin and User Control)**
Solution : This Module will have following features.
a. All the content under this section will be database driven and administrator or the assigned user will have full control for add/edit/delete the content.
b. In this module content will be in table format and paragraphs.
c. This module will have the feature to upload pdf file.
d. Define expiry date for each Tender/Notice for automatic transfer into the archives section after specified period.

❖ **Requirement No. 6 : Vacancy/Recruitment Module.**
Solution : This module will provide all information and forms in pdf format and it will downloadable to general users. These modules have following features.

a. All the content under this section will be database driven and administrator or the assigneduser will have full control for add/edit/delete the content.
b. All documents in this section will have in pdf format.
c. Define expiry date for each Vacancy / Recruitment for automatic transfer into the archives section after specified period.

❖ **Requirement No. 7 : Banner Management Module**
Solution : This module will facilitate Creator/Publisher to manage Banners. This module will have following features:
a. Creator/Publisher will be able to upload Banner image in predefined size.
b. Creator/Publisher will be able to set particular banner image to show on home page.

c. Creator/Publisher will be able to provide title, alt text, and link to banner images.
d. Creator/Publisher will be able to delete the banners.

❖ **Requirement No. 8 : Important Information**
Solution : This section will provide all the important information about the Department DCPW and Components this module will have following features:
   a. All the content under this section will be database driven and administrator or the assigned user will have full control for add/edit/delete the content.

❖ **Requirement No. 9: Director's Module**
Solution : This Module will have following features.
   a. All the content under this section will be database driven and administrator or the assigned user will have full control for add/edit/delete the content.
   b. In this module content will be in table format and paragraphs.
   c. In this module content will manage through Content Management System (CMS).
NOTE: All the pages, and Content Manage through CMS (Content Management System)

❖ **Requirement No. 10 : Photo Gallery Module**
Solution : The vendor shall develop an advanced Photo gallery module to allow user department to publish best quality photos in the website. Some of the unique features of Photo gallery module should be as follows:
   a) Facility to upload Image Name, Image, Image Description and Meta tags for each image.

   b) Facility to view/add/edit/delete Images in JPEG, GIF and SWF format.

   c) Facility to review, editing and publishing layers to ensure correctness of the content.

   d) Should be accessible across all browser types, and on all different resolutions.

   e) Facility to upload graphic file(s) up to 10 MB.

❖ **Requirement No. 11 : Feedback Module**
Solution : This will allow website team in collecting different types of feedback from websites visitors. This Module will have following features.
   a) Will have facility to check all the details of whosoever is giving feedback.

   b) Will have facility to check all the feedback which has been given by website visitor.

   c) Feedback will be send to that administrator, which user will select "Write Feedback About".

   d) Will have facility to view /delete feedback.

   e) Will have facility to add/delete in "Write Feedback About" filed.

❖ **Requirement No. 12 : Order/Circulars Management Module**

Solution : This module will help Department in publishing its public Orders/Circulars on the website. This module will have following features:

a. Manage Orders/Circulars through secure online control panel.
b. Add/Edit/ Delete Orders/Circulars on the website.
c. Define expiry date for each Orders/Circular for automatic transfer into the archives section after specified period.
d. Define appropriate Meta tags for each Orders/Circular for listing in search engine.
e. Preview and Publish Orders/Circulars on the website.

❖ **Requirement No. 13 : Employee Corner Module/ Login Module for DCPW employees at various DCPW establishments (CPRTI, POLNET Hub, RPWTIs and ISPW Stations)**

Solution : This Module will have following features.

a) Employee Login with user name and password.
b) Manage their profile (Name, photo, phone number, office address, qualification, work experience etc.)
c) Logged in employee will be able to visit and view the private documents

(notices &circulars, office order) in PDF form published, shared by admin/users.

d) In this module content will be in table format and paragraphs.

❖ **Requirement No. 14 : Development of Content management system (CMS) with 2 stage workflow**

Solution : This will help Department in making changes in the static website content. This will have following features:

a. Dynamic submenus: Submenus can be created based on the page-tree as pages are added and subtracted.
b. Bi-lingual support: Content of both languages English & Hindi can be managed from the same control panel. Administrator will be able to add content for both the languages from the same page.
c. Metadata Insertion: Can be inserted for each page or globally, and for different languages.
d. Search Engine Friendly URL's: A rewrite engine is software that modifies a web URL's appearance (URL rewriting). Rewritten URLs (sometimes known as short, fancy URLs, or search engine friendly - SEF) are used to provide shorter and more relevant-looking links to web pages.
e. Rich Text Editor: Multiple RTEs with Microsoft word like icons support for Mac/safari and Mozilla Firefox on all platforms; WYSIWYG editors are highly configurable-buttons and CSS styles can be added and removed.
f. CSS Styled Content: All aspects of the core functionality can be styled on the website. Most extensions can be styled through CSS.
g. Online Administration: All administration is handled online via a current web browser.

h. Audit Trail: Administrators have access to one log in the backend or individual logs on each page where they can view changes that have been made to the database.
i. Minimal Training Required: Editing content is as easy as editing in Microsoft word. Menu links are automatically generated as an editor adds pages and most content elements features wizards for further ease of use.
j. Site Map: A hierarchical visual model of the pages of a Web site. Site maps help users navigate through a Web site that has more than one page by showing the user a diagram of the entire site's contents. It is auto generated (dynamic).

❖ **Requirement No. 15 : Development of Archives Management Module**
Solution :
   a. This module will help website team in ensuring that the expired content is automatically removed from the main website.
   b. There will be an Auto Archival System available on the Website, which will transfer the expired content in archives section as soon as it reaches expiry date.
   c. Archived Data will be available in each page along with search option to search data between 2 given dates.

❖ **Requirement No. 16 : Links to Social Media**
Solution : This section will help the department to popularize the portal content through different social media like Facebook, Twitter, Google+ or other social media.
   a) Getting Likes of the pages/sections.
   b) Help General Public in Sharing Portal pages with friends.
   c) Integrating social widgets in the Portal.

❖ **Requirement No. 17 : Archives Management Module Development**
Solution :
   a) This module should help user department in ensuring that the expired content isautomatically removed from the main website.
   b) There should be an Auto Archival System available on the Website, which should transfer the expired content in archives section as soon as it reaches expiry date.
   c) Archival Module must have an expiry date to function correctly.
   d) The archived data should be categorized into two parts:

i. Public Archives: - It should be made available to general public, i.e. website visitors through archive link within each page.

ii. Private Archives: - It should not be available to general public, i.e. website visitors. It should be be available to backend team i.e. authorized users through their control panel.

e) Archived Data should be available in each page along with search option to search data between 2 given dates.

❖ **Requirement No. 18 : Site Search Module (Restrictive and Non-Restrictive Module Mode)**

Solution :

a. This module should allow website visitors to search for relevant information within the website.
b. Site search shall work based on keywords and will search the entire data base driven content.
c. Search results should be displayed in the form of listing and should also have link to relevantpages within the website.

❖ **Requirement No. 19 : Event Management Module**

Solution : This Module should be help department in managing details of their upcoming Events. The Vendor Shall develop Events with the following features.

a. Add / Edit / Deactivate Events.

b. Manage Events including the following:

i. Events Information.

ii. Schedule.

iii. Registration information.

iv. Download documents.

c. Manage Post Events details including the following:

i.   Upload Events Documents
ii.   Upload Post Events documents
iii.   Upload Events/ Seminar/ Conference/ Workshop Details

d. Manage Events Archives

❖ **Requirement No. 20 : Website Statics Module**
Solution :
a.   This module will help user department is analyzing the popularity of the

Website and visitors behaviour pattern on the website.

b. There will be facility for the administrator to view website hits.

c. The administrator should be able to view hits separately for different section for e.g.English & Hindi Section.

d. There will also be facility to filter hits based on particular date range.

- **Specific Requirements**

❖ **Requirement No. 21 : Search Engine Optimization**
Solution: This feature shall ensure that user department website is registered in Public Search Engines on appropriate keywords and is displaying the correct information in search description. The Vendor should do the following to ensure appropriate search engine results:
   a. Integrated Page title, Meta description to ensure appropriate search engine results.
   b. Sitemap.xml creation
   c. Robot.txt file creation
   d. Manually submit website to top 3 search engines including Google. Bing & Live.

❖ **Requirement No. 22 : Population of Content on the New Website**

Solution: This will ensure that the newly developed website has all the relevant content available on the new website. We will help the department in restructuring its content as per the GIGW guidelines. We will do one time integration of department's content into thenewly developed website.

❖ **Requirement No. 23 : Safe to host certificate**

Solution: NIC data center requires security clearance certificate before hosting any website in its data center. The new website will be audited by Cert-in empanelled auditor and all the vulnerabilities will be fixed. Upon completion, security clearance certificate of cert-in empanelled auditor will be submitted.

❖ **Requirement No. 24 : GIGW Compliance Audit Certificate From STQC**

Solution: GIGW Compliance Audit Certificate certifies that the website is developed as per Guidelines for Indian Government Websites (GIGW); is accessible to people with disability; and is adhering W3C's WCAG Guidelines. This audit will be done by STQC auditors and agency

will handle the entire process related to obtaining this certificate from STQC department.

❖ **Requirement No. 25 : Configuration of Server**

Solution : In this module hosting environment will be created on NIC Cloud. This will have following features:

    a) NIC will provide the VM at NIC cloud.

    b) Database Server and web server will be configured as per the application requirements.

    c) All required port opining, setting user's permission (Read, write) for secure access will be done.

❖ **Requirement No. 26 : Onetime Onsite Training**

Solution : Onsite training of up to two days to the user department should be provided to train them on the overall workflow of the developed solution and backend administration module.

Note :

> *Website have breadcrumb on all the pages.*
> *A backup form will filled to take backup of the website after website is hosted onCloud environment.*
> *Admin will be able take backup from Admin Panel.*
> *Source code of the website will be delivered after STQC audit completion.*
> *Ck editor have File upload facility.*
> *In Hindi website – Validation Messages will come in Hindi for blank field.*
> *Google Analytical code will be added, Department will provide the Gmail account details.*
> *This CMS have no provision of maintain the document Version.*

2.3 User classes and characteristics

- ❖ **Super Admin**
- ❖ **Publisher**
- ❖ **Creator**
- ❖ **Website Visitors**

2.4 Operation Environment

2.4.1 Development Environment

- ❖ Front-end website will be developed using Adobe Photoshop, Corel Draw, Adobe Flash and Adobe Dreamweaver.

- ❖ The website will be developed using open source PHP 8.2.x, Laravel and MySQL 5.x

- ❖ During development the website will be hosted on Linux server with Apache Web server and MySQL Database server.

2.4.2 Hosting Environment

- ❖ Red Hat Enterprise Linux 7.x + Server
- ❖ Apache Web server 2.2.x
- ❖ MySQL database server 5.x

3. External Interface Environment

3.1 System Features

3.1.1 Front End Features:

A. Common Features [Inside Header Portion]

- ❖ Accessibility Options
  - Font +/-
  - Color Options [3 colors and 1 high contrast theme][Additional Feature]
- ❖ Screen Reader Access [As per GIGW guideline, the website content should be accessible through various screen reader tools. This link will open a page with list of different screen reader tools. This will enable people with visual impairments access the website using assistive technologies, such as screen readers.]
- ❖ Hindi/English Website
- ❖ Search within Site [Google search will be integrated] [Additional Feature]
- ❖ Social Media icon , the Site Map Icon and Skip to Main Content Included in the Header the Section on the Website

B. Top Menu Link

[These menu link will be available on every page]

1. **Home**

2. **About Us**

   - ✓ Origin
   - ✓ Organizational Chart
   - ✓ Role and Functions
   - ✓ Landmark

3. **Sections**

   - ✓ Communication
   - ✓ POLNET
   - ✓ CPRTI
   - ✓ Workshop
   - ✓ Coordination
   - ✓ MM & IT
   - ✓ L & B
   - ✓ Welfare
     - Home
     - Circular

4. **Administration**

   - ✓ Circular
   - ✓ Office Order

- ✓ Hindi
- ✓ RTI
  - Mandatory Disclosure
  - Application Form
  - CPIO
  - Appellate Authority
- ✓ Archives
  - Office Order
  - Circular

5. Training

- ✓ CPRTI
  - Introduction
  - Organizational Chart
  - Faculty
  - Training Calendar
  - Result
  - Brochure
  - Syllabus
  - Notification/Circular
  - Photo Gallery
    - Photo Gallery of Conference held on 15-2-2019
    - Photo Gallery of Yoga Day 2029
    - Minutes of Conference
    - Photo Gallery of Yoga 2019

- ✓ RPWTI Chandigarh
  - Introduction
  - Training Calendar
  - Result
  - Syllabus
  - Notification/Circular
  - Photo Gallery

- ✓ RPWTI Kolkata
  - Training Calendar

- ✓ RPWTI Bengaluru

  RPWTI Gandhinagar

6. Vigilance/Grievance

- ✓ Vigilance
  - Introduction

- Circular
- Office Memorandum
✓ Grievance
  - Introduction
  - Circular
  - Office Memorandum
  - For Logging Complain

7. Gallery

✓ Photo Gallery
  - BB-PPDR Conclave
  - 79th Raising Day 2024
  - Get-Together 2024
  - Swachhata Hi Seva 2023
  - Cleanliness Campaign 2023
  - Yoga Day 2023
  - Heads' of PPDR Conference 2020
  - Vigilance Awareness week 2019
  - Hindi Pakhwara 2019
  - Security Expo 2019
  - Yoga Day 2019
  - One Day Conference on 15th March 2019
  - Conference 2018
  - Security Expo 2018
  - Hindi Pakhwara 2018
  - Raising Day 2018
  - Hindi Pakhwara 2017
  - Photo Gallery of Conference held on 15-2-2019
  - Photo Gallery of Yoga Day
  - Geld medal in 23rd India International Security Expo 2022
✓ Video Gallery

8. Tender (Dynamic Page)
9. Police Medals (CMS Page)
10. Department Login
  ✓ 1. E-Office, 2. Gov Email, 3. HRMS, 4. PFMS, 5. Dashboard
11. Contact Us
  - Contact Details

    (Including the details of ZAO's)

C. Center Area

1. Home Banner
2. Bulletins
3. Director's Message
4. Latest News
5. Tender
6. Recruitment
7. Important Notifications
8. Quick Links
    - Govt e-Marketing
    - GST
    - Income Tax
    - CGHS
    - Digital India
    - WPC
    - TRAI
9. Links
    - Technical Information
    - Publications
    - Related Links
    - Employees Corner
    - Utility Forms

D. FOOTER LINKS

1. MHA **(EXTERNAL LINK)**
2. AR **(EXTERNAL LINK)**
3. BPR&D **(EXTERNAL LINK)**
4. BSF **(EXTERNAL LINK)**
5. CISF **(EXTERNAL LINK)**
6. CRPF **(EXTERNAL LINK)**
7. NSG **(EXTERNAL LINK)**
8. ITBP **(EXTERNAL LINK)**

9. SSB **(EXTERNAL LINK)**
10. Terms & Condition
11. Website Policies
    - Privacy & Policy
    - Copyright Policy
    - Hyperlinking Policy
12. MyGov (will go to mygov.nic.in) **(EXTERNAL LINK)**
13. Digital India **(EXTERNAL LINK)**
14. Data.gov.in **(EXTERNAL LINK)**
15. Make in India **(EXTERNAL LINK)**
16. India Portal (will go to http://www.india.gov.in) **(EXTERNAL LINK)**
17. Visitor Counter **(Dynamic)**
18. Last Update date **(Dynamic)**
19. - Copyright DCPW@2024
    - Content is owned and provided by DCPW

Note :

*Module type's description is mentioned below

- **Content (CMS):** content will upload through WYSIWYG Editor.
- **Dynamic Module :** content will upload through form and it will upload one record at a time. For example, in related links module if we have 5 external links then we have to enter each records oneafter another through respective form from admin section.

Work Flows :

Role	Description
Creator	Creator can access to all the permissions being assigned by the Admin. It can manage self profile, Add/edit/delete Contents for modules assigned by super admin, send the content to publisher for publishing
Publisher	Publisher will have all the permissions being assigned by the Super Admin. The Publisher can edit, publish and review the content.

3.1.2 Back End Features:

- ❖ **Bilingual Management Module Development**
- ❖ **What's New (News and Announcements) Module**
- ❖ **Tender/Notice Module (Admin and user control)**
- ❖ **Vacancy / Recruitment Module**
- ❖ **Banner Management Module**
- ❖ **Director's Module**
- ❖ **Photo Gallery Module (Auto annotations)**
- ❖ **Feedback Module**
- ❖ **Orders / Circulars Management Module**
- ❖ **Employee Corner Module/ Login Module for DCPW employees at various DCPW establishments (CPRTI, POLNET Hub, RPWTIs and ISPW Stations)**
- ❖ **Development of Content management system (CMS)**
- ❖ **Development of Archives Management Module**
- ❖ **Links to Social Media**
- ❖ **Archives Management Module Development (Automation Management)**
- ❖ **Events Management Module**

4. Functional Requirements

4.1 Requirements

4.1.1 Requirement ID 1,2 & 3

Directorate Coordination of Police Wireless (DCPW) website will be Bilingual that is In Hindi and English.So, each and every page which will be available in English site should be available in Hindi also**.**

And Also, Directorate coordination of Police Wireless (DCPW) website as Follow "Guidelines for indian Government Websites". The Website is to be developed as per the guidelines defined and ensure complete compliance with the GIGW. The website will be developed based on guidelines compliant template for IAand UI design so that it is as per GIGW guidelines and is universally accessible.

Note: General Business Rules – The rules stand below would be common for all requirement and must be followed :

- ❖ Start date cannot be greater than End/Expiry date.
- ❖ The date should be in DD/MM/YYYY format.
- ❖ On clicking back button, a page should be redirected to the previous page.
- ❖ On clicking reset button on a form, all the fields will be reset to the previous page.
- ❖ User should be able to add content on English and Hindi For selected menu content page though CMS admin area.
- ❖ Development of Screen reader Friendly website.
- ❖ Structuring overall content with proper heading structure.
- ❖ Ensuring compatibility with all major browsers like Internet Explorer 9.0 version onwards,

  Mozilla Firefox 19.0 version onwards and Google Chrome 31.0 version onwards.

- ❖ Restructure overall content with proper tagging to make them screen

  reader friendly.

4.1.2 Requirement ID 4

FRONT END REQUIREMENTS
- ❖ **Requirement Name :** What's New (New and Announcements Module)
- ❖ **Requirement Description :** Public User will be able to see the details of what's new

BACK END REQUIREMENTS
- ❖ **Description :** With this interface, Creator/Publisher would be able to publish all the What's new Details
- ❖ **Screen Navigation :** Window-> Access-> Login-> What's New
- ❖ **Input Specification :** Create Media Category or Media Type

- **Available Actions**

Action	Control Type	Description
Submit	Command Button	Clicking on submit will save all the details entered.
Edit	Link	To edit the category or Media type
Preview	Link	To view the category or events type
Delete	Link	To delete workshop and seminar.

- **Input Fields**

Name	Control Type	Input Limit	Data Type	Type
Language	Check Box	-	A	M
Title	Text Box	250 Characters	A	M
Page URL	Text Box	100 Characters	AN	M
Content Type	Drop down		N	M
Description	WYSIWYG Editor	100	AN	O
Upload PDF	Upload Image	-	-	O
Start Date	Calendar	-	N	M
End Date	Calendar	-	-	N
URL	Text Box	-	AN	O
Status	Drop down	-	N	M

- **Input Fields Description**

Name	Description	Validation
Language	Language related to content	Check box
Title	It Contains title of Content	It should be alphanumeric
Page URL	It Contains browser title	It should be drop down

Content Type	It contains content types	It should be alphanumeric
Description	It Contains detailed description of content	It should be alphanumeric
Upload PDF	PDF File to be uploaded	It should be alphanumeric
Start Date	It should be calendar	It should be alphanumeric
End Date	It should be Calendar	It should be alphanumeric
URL	IT contains external link	It should be alphanumeric
Status	It contains status either draft, publish	It should be numeric

4.1.3 Requirement ID 5

FRONT END REQUIREMENTS
- ❖ **Requirement Name :** Tender/Notice Module (Admin and user Control)
- ❖ **Requirement Description** : Tender Module is used to upload the documents of DCPW. DCPW officials will upload the tender documents in PDF format so that end users can view and download the same.

BACK END REQUIREMENTS
- ❖ **Description :** Tender on the home page will be uploaded from here.
- ❖ **Screen Navigation :** Window-> Access-> Login-> Manage Meeting/Events
- ❖ **Input Specification:**

- • **Available Actions**

Action	Control Type	Description
Submit	Command Button	Clicking on submit will save all the details entered.
Edit	Link	To edit the tender.
Preview	Link	To view the tender listing
Delete	Link	To delete the tender

				document.

- **Input Fields**

Field Name	Control Type	Input Limit	Data Type	Mandatory
Language	Check Box	-	-	M
Document Title	Text Box	100	AN	<
Description	WYSIWYG Editor		AN	O
Document Upload (File)	Upload File	-	-	O
Start Date	Calendar	-	-	M
End Date	Calendar	-	-	M

- **Input Fields Description**

Name	Description	Validation
Document Language	Enter documents language	It should be alphanumeric
Document Title	Enter Document Title	It should be alphanumeric
Description	Enter the content description	It should be alphanumeric
Document Upload	Upload document related to the tenders	File could be PDF etc.
Start Date	Content posting Date	It should be calendar
End Date	Content Expiry date	It should be Calendar

4.1.4 Requirement ID 6

FRONT END REQUIREMENTS
- ❖ **Requirement Name :** Vacancy / Recruitment Module
- ❖ **Requirement Description :** Vacancy module is used to upload the documents of DCPW. DCPW officials will upload the Vacancy documents in pdf format so that end users can view and download the same.

BACK END REQUIREMENTS

- ❖ **Description :** Vacancy on the home page will be uploaded from here.
- ❖ **Screen Navigation :** Window-> Access-> Login-> Manage Vacancy
- ❖ **Input Specification :** Create Media Category or Media Type

- **Available Action**

Action	Control Type	Description
Submit	Command Button	Clicking on submit will save all the details entered.
Edit	Link	To edit the vacancy
Preview	Link	To view the vacancy listing.
Delete	Link	To delete the vacancy document.

A successfully added or uploaded the tender will go the publisher for publishing.

- **Input Fields**

Field Name	Control Type	Input Limit	Data Type	Mandatory
Language	Check box	-	-	M
Document Title	Text Box	100	AN	M
Description	WYSIWYG		AN	O
Document Upload (file)	Upload File	-	-	O
Start Date	Calendar	-	-	M
End Date	Calendar	-	-	M

- **Input Fields Description**

Name	Description	Validation
Documents Language	Enter documents language	It should be alphanumeric
Documents Title	Enter Documents Title	It should be alphanumeric
Description	Enter the content description	It should be alphanumeric

Document Upload	Upload document related to the tenders	File Could be calendar
Start Date	Content posting date	It should be calendar
End Date	Content Expiry date	It should be calendar
Name	Description	Validation

4.1.5 Requirement ID 7

FRONT END REQUIREMENTS

❖ **Requirement Name :** Banner Management Module
❖ **Requirement Description :** The Website team can change the home page banner as many times as possible. This banner will contain images and scrolling of banner images will be controlled through java script.
❖ **User Screen :** NA

BACK END REQUIEMENTS

❖ **Description :** Banner on the home page will be uploaded from here.
❖ **Screen Navigation :** Window -> Access-> Login -> Upload Banner
❖ **Input Specification :**

• **Available Actions**

Action	Control Type	Description
Submit	Command Button	Clicking on submit will save all the details
Edit	Link	To edit the Banner
Preview	Link	To View the banner listing
Delete	Link	To delete Banner.

A successfully added or uploaded the tender will go the publisher for publishing.

• **Input Fields**

Field Name	Control Type	Input Limit	Data Type	Mandatory
Banner Title	Text Box	100	AN	M
Upload	Browse	1 image	-	M

Images	Button	for one banner title		
Start date	Date	-	-	M
Termination Date	Date	-	-	M
Page Status	Date	-	-	M

- **Input Fields Description**

Name	Description	Validation
Banner Title	Title of the Banner	It should be alphanumeric
Upload File	It Give an Option to the Creator/Publisher to upload any particular file supporting the content	File Should be in either word of PDF format
Start Date	It will be the Start Date	Start Date
Termination Date	It will be termination date	Termination Date
Page Status	It provide an option to select status of the page	Page should has to be selected from the drop down i.e Draft, approved, Review, Publish, by he Creator/publisher.

4.1.6 Requirement ID 9

FRONT END REQUIREMENTS

- ❖ **Requirement Name: Director's Module**
- ❖ **Requirement Description :** Public user will be able to see all the details of Director Module

BACK END REQUIREMENTS
- ❖ **Description :** With this interface, Creator/Publisher would be able to publish all the Director details
- ❖ **Screen Navigation :** Window-> Access-> Login-> Manage Director

❖ **Input Specifications:** Create Media Category or Media Type

- **Available Action**

Action	Control Type	Description
Submit	Command Button	Clicking or Submit will save all the details entered
Edit	Link	To edit the director
Preview	Link	To View the Director
Delete	Link	To delete the director

- **Input Fields**

Name	Control Type	Input Limit	Data Type	Type
Language	Check box	-	A	M
Name	Text Box	250 Character	A	M
Page URl	Text Box	100 Character	AN	M
Designation	Text Box	100	A	O
Description	WYSIWYG Editor	100	AN	O
Upload Images	Upload Images	-	-	O
Start Date	Calendar	-	N	M
End Date	Calendar	-	-	N
Status	Drop Down	-	N	M

- **Input Fields Description**

Name	Description	Validation
Language	Language related to content	Check box
Name	It Contains name of consent	It should be alphanumeric
Page URL	It contains details description of content	It should be alphanumeric

Designation	It Contains details description	It should be alphanumeric
Upload Images	JPG, PNG file to be uploaded	It should be alphanumeric
Start Date	It should be calendar	It should be alphanumeric
End Date	It should be calendar	It should be alphanumeric
Status	It Contains status either draft, publish	It should be numeric

4.1.7 Requirement ID 10

FRONT END REQUIREMENTS
- ❖ **Requirement Name :** Photo Gallery
- ❖ **Requirement Description :** The website visitor would be able to view the photos clicking on gallery button

BACK END REQUIREMENTS
- ❖ **Description :** With this interface, Creator/Publisher would be able to add/delete Gallery content on the website.
- ❖ **Screen Navigation :** Window -> Access-> Login-> Manage Photo/ Gallery
- ❖ **Input Specification:** Photo Gallery

- Available Actions

Action	Control Type	Description
Submit	Command Button	On clicking submit all the details entered are submitted
Edit	Link	To edit the photo gallery
Preview	Link	To View the photo gallery
Delete	Link	To delete the photo gallery

- **Input Fields**

Name	Control Type	Input Limit	Data Type	Type
Language	Check box	-	N	M
Gallery Category Name	Drop Down	-	A	M
Gallery Title	Text Box		A	M
Gallery Title Hindi	Text Box		A	O
Description	Text Box	1000	AN	O
File Upload	Browse Button	1 Max at a Time	-	M

- **Input Fields Description**

Name	Description	Validation
Language	Language About content	Language should be available in check box
Gallery Category Name	Name of the gallery category	The name of the Category should be available in drop down
Gallery Title	Title if the gallery	It should be alphabetical
Gallery Title Hindi	Title of the gallery	It should be alphabetical
Description	Description of the gallery	It should be alphabetical
File Upload	To upload images	All should be in valid format (JPEG, GIF,PNG) and size not exceeding 5 MB

4.1.8 Requirement ID 11

BACK END REQUIREMENTS
- ❖ **Requirement Name :** Feedback Management Module
- ❖ **Requirement Description :** This will allow website team in collecting different types offer back from website visitors.

❖ **Input Specification :**

Field Name	Control Name	Input Limit	Input Type	Mandatory	Remarks
Name	Text box	100	AN	M	First name of the visitor
Address	Text area	100	AN	M	Address of the visitor
Organization Name	Text box	100	AN	M	Organization Name of the visitor
Mobile No	Text Area	10	AN	O	Mobile No of the visitor
Email ID	Text Area	100	AN	M	Enter email id of visitor
Write feedback about	Drop Down	-	-	M	Choose the options
Write your feedback here	Text box	-	AN	M	Comments to be entered by visitor

- **Input Fields Specifications**

Name	Description	Validation
Name	Enter First Name	It should be Alphabetical
Address	Enter Address	It Should be alphanumeric
Organization Name	Enter Organization name	It Should be Alphanumeric
Mobile No	Enter mobile no	It should be alphanumeric
Email Id	Enter Email id	It should be
Write Feedback About	Select an option from the drop down to share feedback on.	It should be alphanumeric
Write your feedback here	Enter you feedback	It should be alphanumeric

4.1.9 Requirement ID 12

FRONT END REQUIREMENTS

- ❖ **Requirement Name :** Order/Circular Module
- ❖ **Requirement Description :** This would consist of order/circular

BACK END REQUIREMENTS

- ❖ **Description :** This would consist of Order/Circular
- ❖ **Screen Navigation :** Window-> Access-> Login-> Manage Order/Circular
- ❖ **Input Specification :**

- • **Available Actions**

Action	Control type	Description
Submit	Command Button	On clicking submit all the Details entered aresubmitted
Reset	Command Button	TO Clear all the Fields
Back	Command Button	To go back to previous

		Page.
Edit	Link	To edit the order/circular
Preview	Link	To view the order/circular summary
Delete	Button	To delete order/circular

- **Input Fields**

Field Name	Control Type	Input Limit	Data Type	Mandatory
Title	Text Box	100	A	M
Description	WYSIWYG Editor	100	AN	M
Start date	Date	100	N	-
Termination date	Date	-	N	-

- **Input Fields Description**

Name	Description	Validation
Title	Order /Circular title	It should be alphabetical.
Description	Order /Circular description	Should redirect as linked by Creator/Publisher
Start date	Start date	It should be alpha numeric.
Termination date	Termination date.	It should be alpha numeric.

4.1.10 Requirement ID 13

BACK END REQUIREMENTS

- ❖ **Requirement Name:** Employee Corner Module
- ❖ **Requirement Description :** Creator/Publisher can Add, Edit, Delete and View the Menu

And Sub Menu content of the Page. Super Admin has the authority to delete any Menu or Sub Menu even content if it is in Draft Mode. Admin will have the authority to create/edit/delete the menu and sub-menu.

❖ **Screen Navigation:** Window->Access->Login->Manage Employee Corner- > Add Employee Corner

❖ **Input Description :**

- **Action Available**

Action	Control Type	Description
Submit	Command Button	On clicking submit all the details entered are submitted and a menu/submenu is created as per the entered fields.
Reset	Command Button	To clear all the fields
Back	Command Button	To go back to 'Edit' page.
Edit	Link	To edit the Content for a menu
Preview	Link	To view the content summary

- **Input Fields Specifications**

Field Name	Input Field	Input Limit	Input Type	Mandatory
Name	Text Box	100	A	M
Phone number	Text Box	10	N	M
Office address	Text Area	100	A	O
Qualification	Text Area	100	A	O
Work Experience	WYSIWYG Editor	-	AN	M
Upload Photo	Browse Button	1 Max at a time	-	O
User Name	Text Box	10	A	M
Password	Text Box	512	AB	M
Status	Text Box	10	A	M
Date	Calendar	12	AN	M

- **Input Description**

Field Name	Input Field	Input Limit
Name	Text Box	100
Phone number	Text Box	10
Office address	Text Area	100
Qualification	Text Area	100
Work Experience	WYSIWYG Editor	-
Upload Photo	Browse Button	1 Max at a time
User Name	Text Box	10
Password	Text Box	512
Status	Text Box	10
Date	Calendar	12

4.1.11 Requirement ID 14

BACK END REQUIREMENTS

- ❖ **Requirement Name:** Development of Content Management Module
- ❖ **Requirement Description:** Creator/Publisher can Add, Edit, Delete and View the Menu and Sub Menu content of the Page. Super Admin has the authority to delete any Menu or Sub Menu even content if it is in Draft Mode. All the created pages are passed through the workflow stages to be published on the website. Creator and Publisher follow the workflow and Admin has a control over the entire process. He can edit and also can make the published page inactive. This module will help the Creator/Publisher to manage the content of the whole website. Admin will have the authority to create/edit/delete the menu and sub-menu.
- ❖ **Screen Navigation:** Window->️Access-️> Login️-> Manage Me️nu-> Add Menu/Content
- ❖ **Input Description:**
- **Actions Available**

Action	Control Type	Description
Submit	Command Button	On clicking submit all the details entered are submitted and a menu/submenu is created as per the entered fields.
Reset	Command Button	To clear all the fields
Back	Command Button	To go back to 'Edit profile' page.
Edit	Link	To edit the Content for a menu
Preview	Link	To view the content summary

- **Input Fields Specifications**

Field Name	Input Field	Input Limit	Input Type	Mandatory
Page title	Text Box	100	A	M
Content Language	Radio Button	-	-	M
Meta keyword	Text Box	100	A	O
Meta Description	Text Box	100	A	O
Content Description	WYSIWYG Editor	-	AN	M
Upload File	Browse Button	1 Max at a time	-	O
Menu/Sub menu Name	Check Box	100	A	M
Page Status	Drop Down	-	-	M

- **Input Description**

Field Name	Description	Validation
Page title	Title of the page	It should be alphanumeric.
Content Language	It gives the option to write the content in English as well as Hindi	Both Hindi and English should be available in drop down.
Meta keyword	It is the Meta keyword	It should be alphanumeric.
Meta Description	Description of Meta keyword	It should be alphanumeric.

Content Description	It contains detailed description of the content under the added menu	It should be alphanumeric.
Upload File	It gives an option to the Creator/Publisher to upload any particular file supporting the content.	File should be in word, PDF, JPEG, GIF, PNG, XLS, and Video Format.
Menu/Sub-menu Name	Name of the Menu to be Added	It should be alphanumeric.
Page Status	It provides an option to select status of the page.	Page status has to be selected from the drop down. I.e. Draft, Approved, Publish and Review etc.

Note :

These all fields will also available in Hindi within the same page. User will also be able to addcontent for English and Hindi within the same page and also content for Hindi and English will be stored in the database at the same time. All the Fields are same while adding or editing the Menu/Sub Menu Content.

4.1.12 Requirement ID 15

FRONT END REQUIREMENT

❖ **Requirement Name :** Development of Archives Management Module

❖ **Requirement Description:** Older section's information will be archived through this module.

BACK END REQUIREMENT

❖ **Description :** Older Sections Information Will be Archived through this module

❖ **Screen Navigation :** Window**->**Access -> Login -> Archive Section

❖ **Input Specifications :**

• **Available Actions**

Action	Control Type	Description
Submit	Command Button	On clicking submit all the details entered are submitted
Reset	Command Button	To clear all the fields

Back	Command Button	To go back to Previous page.

- **Input Fields**

Field Name	Control Type	Input Limit	Data Type	Mandatory
Category Type	Drop Down	100	AN	M
Archive Title	Text Box	-	-	M
Start Date	Calendar	-	N	M
Termination Date	Calendar	-	N	M
Page Status	Drop down	-	-	M

- **Input Fields Specification**

Name	Description	Validation
Category Type	Title of the Page	It should be alphanumeric.
Archive Title	Enter Archive Title	It should be alphanumeric.
Start date	It will be the start date	Start date.
Termination date	It will be termination date	Termination date.
Page Status	It provides an option to select status of the page.	Page status has to be selected from the drop down. I.e. Draft, Approved, Review, Publish by the Creator/Publisher

4.1.13 Requirement ID 16

FRONT END REQUIREMENT

- ❖ **Requirement Name :** Links to Social media
- ❖ **Requirement Description:** This would consist of External links jump to social media websites.

    BACK END REQUIREMENT

- ❖ **Description :** This would consist of External links.
- ❖ **Screen Navigation :** Window->Access->Login- >Manage Social media Links
- ❖ **Input Specifications**
- **Available Actions**

Action	Control Type	Description
Submit	Command Button	On clicking submit all the details entered are submitted
Reset	Command Button	To clear all the fields
Back	Command Button	To go back to Previous page.
Edit	Link	To edit the Related Links
Preview	Link	To view the Related Links summary

- **Input Fields**

Field Name	Control Type	Input Limit	Data Type	Mandatory
Social media icon	browse		-	M
To be linked with	Textbox	100	AN	M

- **Input Fields Description**

Name	Description	Validation
Name	Page Name	It should be alphabetical.
To be linked with	Hyperlink	Should redirect as linked by Creator/Publisher

4.1.14 Requirement ID 18

FRONT END REQURIEMENTS

❖ **Requirement Name :** Archives Management Module

❖ **Requirement Description:** Older section's information will be archived through this module.

BACK END REQUIREMENTS

❖ **Description:** Older section's information will be archived through this module.

❖ **Screen Navigation:** Window->Access-> Login- > Archive Section

❖ **Input Specifications**

- **Available Actions**

Action	Control Type	Description

Submit	Command Button	On clicking submit all the details entered are submitted
Reset	Command Button	To clear all the fields
Back	Command Button	To go back to Previous page.

- **Input Fields**

Field Name	Control Type	Input Limit	Data Type	Mandatory
Category Type	Drop Down	100	AN	M
Archive Title	Text Box	-	-	M
Start Date	Calendar	-	N	M
Termination Date	Calendar	-	N	M
Page Status	Drop down	-	-	M

- **Input Fields Specifications**

Name	Description	Validation
Category Type	Title of the Page	It should be alphanumeric.
Archive Title	Enter Archive Title	It should be alphanumeric.
Start date	It will be the start date	Start date.
Termination date	It will be termination date	Termination date.
Page Status.	It provides an option to select status of the page.	Page status has to be selected from the drop down. I.e. Draft, Approved, Review, Publish by the Creator/Publisher

4.1.15 Requirement ID 20
FRONT END REQUIREMENTS

- ❖ **Requirement Name :** Events Management Module

- ❖ **Requirement Description :** The Visitor will be able to view latest information on the home page of the website. This information may contain Event. For Viewing the details description visitor will have to click on any particular point that he wish to view. This section displays all the latest information of ICHR, being created at the back end. After last date, Events will be moved to archive sections

- ❖ **User Screen : NA**

BACK END REQUIREMENT

❖ **Description :** With this interface, Creator/Publisher would be able to add/delete/update latest information on the website.

❖ **Screen Navigation :** Window-> Access -> Login -> Manage Event

❖ **User Screen : NA**

❖ **Input Specification :**

- **Available Action**

Action	Control Type	Description
Submit	Command Button	Clicking on submit will save all the details entered.
Edit	Link	To edit event Section
Preview	Link	To View Event Summary

- **Input Fields for Adding/Editing**

Name	Control Type	Input Limit	Data Type	Type
Name	Text Box	100	A	M
Page Title	Text Box	100	A	M
Page Language	Drop Down	-	-	M
Start Date	Date	-	N	M
Termination Date	Date	-	N	M
Page Status	Drop down	-	-	M

- **SPECIFIC REQUIREMENT**
  - ❖ **Search Engine Optimization**

    This feature shall ensure that user department website is registered in

Public Search Engines on appropriate keywords and is displaying

thecorrect information in search description.

The vendor should do the following to ensure appropriate search engine

results:

a). Integrate Page title, Meta description & Meta keywords for all

webpages.

b). Sitemap.xml creation. Robot.txt file creation

c). Manually submit website to top 3 search engines including

Google, Bing & Live.

- ❖ **Population of Content on the New Websites**
- ❖ **Safe to Host Certification**
- ❖ **GIGW Compliance Audit Certification from STQC**
- ❖ **Confirmation of Server**
- ❖ **Onetime Onsite Training**

5. Non Functional Requirements

5.1 Security Requirements

- ❖ We provide user level based access to this website.
- ❖ We provide user name and password for login to their panel.
- ❖ Website content will not be displayed before getting approved by approval authority.
- ❖ Website security audit is performed by CERT empanelled Vendor.

5.2 Availability Requirements

The proposed Website will be running on all browsers including major versions of Internet Explorer (above 8.0), Mozilla Firefox (above 19.0) and Google chrome (above 31.0), TABs and smart mobile phones. Website will also have responsive design structure compatible in all resolutions. This website will be hosted on secure NIC servers and NIC will ensure its availability 24 * 7 basis for general visitors.

5.3 Portability Requirements

Web portal uses the standard PHP 8.2.x, Laravel + and MySQL 5.x or higher.

5.4 Usability Requirements

The Website will be developed keeping the user's background in mind. The Website will be made user-friendly and GUI based. Wherever required, the user friendly messages will be popped up for easy understanding. The website is developed by implementing the Design Rules mention in the GIGW compliance matrix.

Usability related checkpoints
1. All major parts of the site are accessible from the Home page
2. A site map must be available
3. An easy-to-use Search function is available
4. All graphic links are also available as text links
5. All appropriate browsers are supported
6. The language used is simple
7. Users are informed if a plug-in or browser version is required
8. Help section is available in the Website
9. Standard colors are used for links and visited links
10. Similar color scheme and layout are used in all the internal pages
11. Error messages describe what action is necessary
12. Error messages provide a clean exit point

13. If these is a print option can the pages print properly and is readable?

5.5 Accessibility Requirements

Website accessibility means that people with Differentiable person can perceive, understand, navigate, and interact with the Website, and that they can contribute to the Website. Website accessibility also benefits others, including older people with changing abilities due to aging. Considering these people our website is developed as per GIGW guidelines which include web accessibility check points. The home page floating tabs the slider needs to be dynamic. Meaning user should be able to change them according to their preferences.

Accessibility Related Test Cases
1. Alternative text is provided for non-text elements (e.g. Images).
2. Caption should be provided for all important audio/video clips and multimedia.
3. To Control Scrolling, Blinking Content there should be stop and pause button.
4. All input error flash in text
5. Clear indications are given when a link leads out to any external website.
6. Labels have been provided when content requires input from the users.
7. Web pages are usable even when scripts, applets etc. are turned off.
8. Do not include content that flashes faster than 3 times per second.
9. Ensure that same page links move keyboard focus.
10. Ensure that text in the form fields can be enlarged.
11. Avoid use of horizontal screen scrolling.
12. Use valid, standard web programming code i.e. HTML/XHTML or CSS
13. Use heading to introduce sections and sub sections and use them in a correct order.
14. Check the order of the Tab function.
15. Every non context button should show the alternative text.

5.6 Target User Community

Website is developed by analyzing data on specific target audiences. In many cases of our website target audience will be such as Departmental, General Visitor and Differentiable person. Some time may be target audience will be more than three as per department requirement. By analysis all these type of audience requirements, website is developed pertaining to GIGW guidelines.

5.7 Performance

Performance testing of a website is to determine how a system performs in terms of responsiveness and stability under a particular workload. We will perform load testing for 100 users.

5.8 Reliability Requirements

The Website will be developed using PHP 8.2.x, Laravel and MySQL 5.x or higher version. The website will be made reliable so that always it gives the same output for same set of inputs and integrity of the data will also be maintained while saving and updating the details.