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## **1 Krishna Water Disputes Tribunal (KWDT)**

### **1.1 Introduction**

The Krishna Water Disputes Tribunal (KWDT) was established to address the complex and longstanding disputes regarding the allocation and management of water resources from the Krishna River among the states of Maharashtra, Karnataka, and Andhra Pradesh. As water scarcity intensifies due to climate change and population growth, the tribunal plays a vital role in ensuring equitable distribution and sustainable management of this critical resource. Building on the foundational work of institutions like the Maharashtra Engineering Training Academy (META) and the Maharashtra Engineering Research Institute (MERI), the KWDT seeks to create a structured framework for resolving water-related conflicts while promoting collaborative governance.

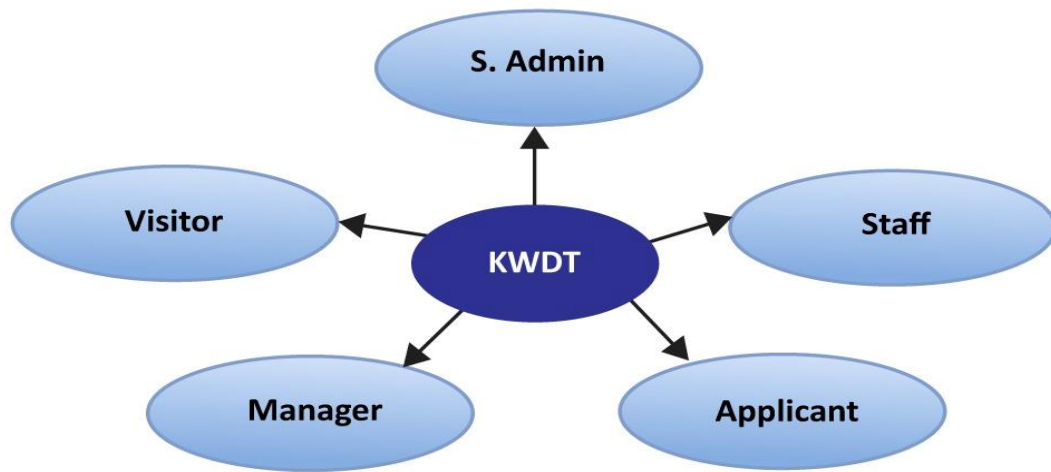
### **1.2 Business Context**

The Krishna Water Disputes Tribunal (KWDT) was established to address the complex and longstanding disputes regarding the allocation and management of water resources from the Krishna River among the states of Maharashtra, Karnataka, and Andhra Pradesh. As water scarcity intensifies due to climate change and population growth, the tribunal plays a vital role in ensuring equitable distribution and sustainable management of this critical resource. Building on the foundational work of institutions like the Maharashtra Engineering Training Academy (META) and the Maharashtra Engineering Research Institute (MERI), the KWDT seeks to create a structured framework for resolving water-related conflicts while promoting collaborative governance.

The system will be developed to meet the functional and non-functional requirements as listed, with a focus on:

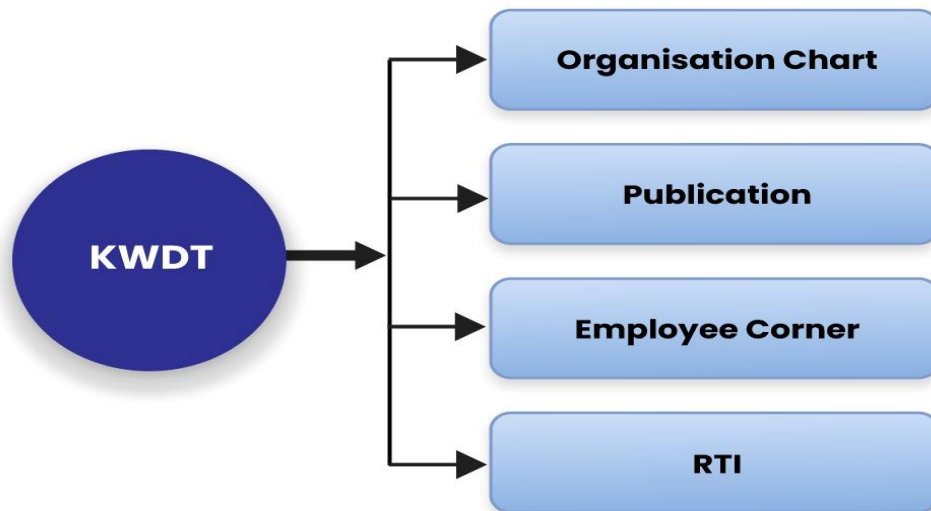
1. Easy navigation for users to access tribunal-related information.
2. Automation of content management to reduce manual intervention.
3. Interactive modules like the Media Gallery, Daily Data, and Publications to enhance transparency and accessibility.
4. Employee resources and RTI management for compliance and transparency.
5. Scalable features to accommodate future updates and expansions.

### 1.3 Application Architecture: -



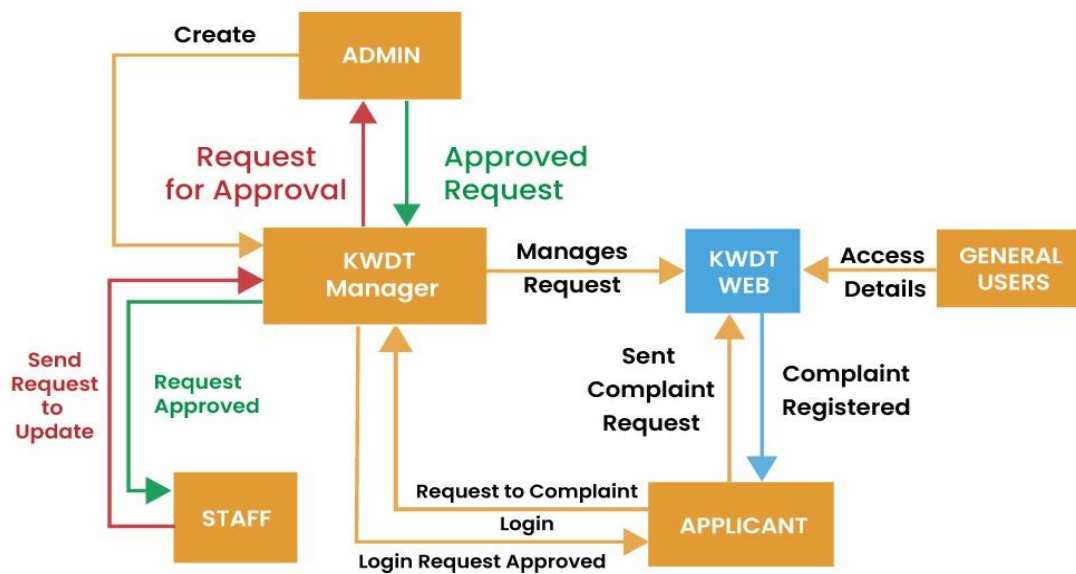
#### 1.4 Current Flow

#### 1.5 System Architecture:



#### 1.6 Solution Diagram:

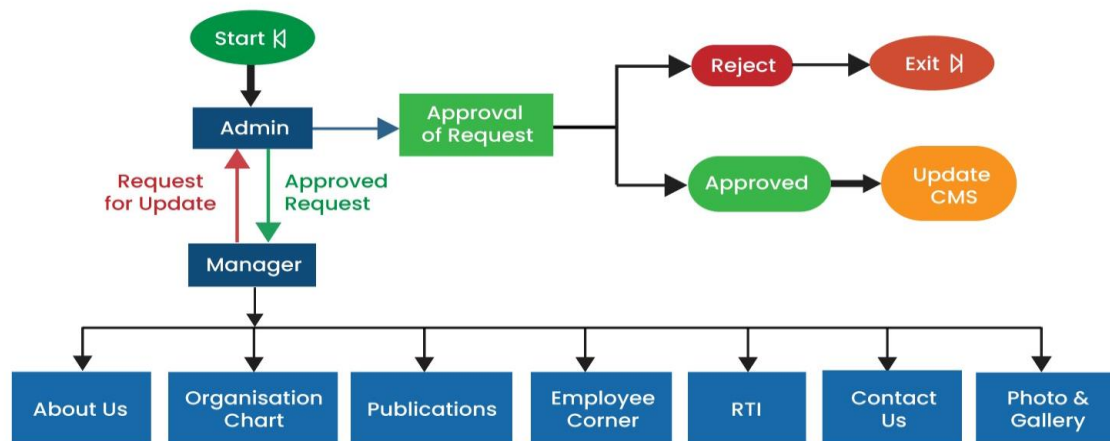
##### *KWDT*



## 1.7 Business Process Flow

This high-level explanation provides clarity on the roles, data flow, and processes involved in the system, which can then be broken down further into more detailed diagrams or business processes based on your software requirements.

*Business Flow of KWDT*



## 1.8 Key Stakeholders and Roles:

a) **Admin User:** The user role will be assigned by the super admin. This user can manage modules as per permission given by super admin.

b) **General Visitors:** General visitors are the one who will visit the website in quest of information disseminated by the KWDT in public interest.

c) **Staff:** Staff members are internal users responsible for executing the day-to-day operations and maintaining the functionality of various systems within the organization. They will be assigned specific roles and permissions by the Admin to manage modules relevant to their duties, such as handling queries, managing documents, coordinating with other stakeholders, and ensuring smooth

- All interactions are logged in the **database**, ensuring the system can respond with accurate data to user requests.

## 1.9 Login and Security:

- Each user role logs in based on their role to ensure secure access and appropriate permissions for data access and updates.

## 1.10 Reporting & Maintenance:

- Reports are generated based on the activities of Admins and Staff and can be accessed by the Super Admin.
- Data updates happen continuously as users interact with the system by admin and manager only also keeping the entire database up-to-date.

workflows across department.

### 1.11 The Core Components:

- **KWDT Web Application** is the central system where all interactions happen. It connects users and roles to the data they need.
- **Database:** Stores all the critical data which is updated, retrieved, and processed by different user roles.

### 1.12 The Business Processes:

- **Admin Operations:**
  - Admins add, edit, or delete data, which is then updated in the web application and made available for General Users.
  - They receive updated data from the system.
- **Staff Operations:**
  - The Staff logs in to check, add, or update data as necessary.
  - The checked data is accessed and updated in the system, ensuring that the General Users get the most accurate information.
- **Manager Operations:**
  - Manager's will be login and can be able to edit / update the contents of their respective area which is assigned by admins.
- **General User Operations:**
  - General users search for data in the system and retrieve the necessary information.

### 1.13 Data Flow Explanation:

- The system revolves around the KWDT Web **Application**, where:
  - **Admins:** create the account for manager to login → System updates the database and reflects changes.
  - **Manager:** managers are eligible to edit/update the Data of contents in Meta web, for which they are assigned to do.
  - **Staff:** Accesses and updates the checked data → These updates are reflected in reports or data accessible by other staff and users who are at different office location and be connected with google geo location API.
  - **General Users:** Search for and receive the required data from the system.
- All interactions are logged in the **database**, ensuring the system can respond with accurate data to user requests.

### Login and Security:

- Each user role logs in based on their role to ensure secure access and appropriate permissions for data access and updates.

#### **Reporting & Maintenance:**

- Reports are generated based on the activities of Admins and Staff and can be accessed by the Super Admin.
- Data updates happen continuously as users interact with the system, keeping the entire database up-to-date.

### **1.14 System Architecture**

#### **1.15A. Hierarchical Model Structure:**

The hierarchical model can be split into **three main layers**:

- **Application Logic Layer**
- **User Interface Layer**
- **Server/ cloud API Layer.**
- **Data Storage Layer**

Each layer will have specific responsibilities and roles, as described below.

#### **B. User Interface Layer (Presentation Layer)**

This layer handles **user interactions**. It includes various user roles that interact with the system based on the permissions assigned to them.

##### **Users:**

##### **1. Application Layer:**

- Highest level of access and all content of web of META which Leads by content- Managers

##### **2. Admin**

- Handles tasks like managing data, assign the role of manger for each content within the boundaries set by the Admin.

##### **3. Staff**

- Focuses on validating, checking, and updating data for internal use.

##### **4. General Users**

- Public-facing role, primarily to search and retrieve data from the system.

#### **C. Cloud Server (API) Layer**

##### **• API Gateway:**

- Acts as a bridge between the web application and the data storage.



- Manages requests and responses between the application and the database.
- Ensures security, scalability, and performance optimization.
- **Functions:**
  - Request Validation
  - Data Security and Encryption
  - Load Balancing for high availability
  - Handling external data sources (if integrated with external services)

#### **D. Data Storage Layer (Database Layer)**

This layer is responsible for **data storage** and managing the interaction between the application and the stored data.

##### **Data Storage Components:**

#### **1. Database (Central Data Repository)**

- Stores all data, including:
  - User information and permissions
  - Records for reporting, updates, and data checks
  - Data accessed by General Users
- Provides the necessary data based on requests from the web application.

#### **2. Data Access and Management**

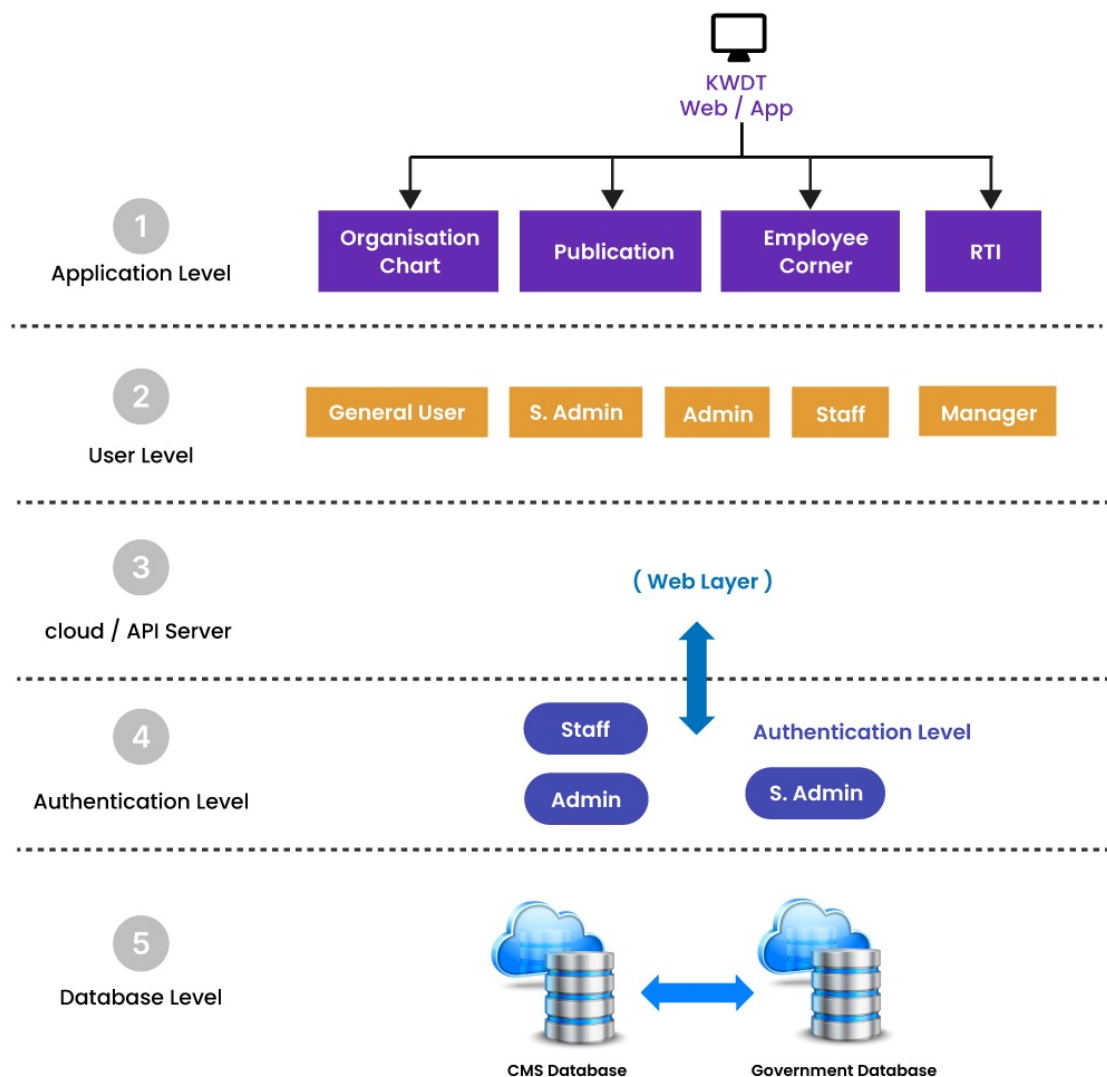
- Controlled by the web application.
- Only specific roles (Super Admins, Admins, Staff) can add, modify, or delete data.
- General Users can search and view data, but cannot modify it.

#### **1.16 Stakeholder's suggestion**

This document is primarily intended for KWDT Officials, & the user. to understand the functionality of department. The various audience targeted in the document are – KWDT Official users, developers, designers, testers, business development team and project managers.

## 1.17 Hierarchical Model

### *Hierarchical Model*



## 1.18 Audience-specific Reading Recommendations:

**KWDT Officials:** Focus on sections covering product scope, functionality, user characteristics, and specific as well as non-functional requirements.

**Developers:** Concentrate on the functional and non-functional requirements specifications to understand what needs to be built.

**Designers:** Pay attention to user interface details and design constraints for a cohesive user experience.

**Testers:** Focus on the functional and non-functional requirements to ensure comprehensive test coverage.

**Business Development Team:** Review the entire document to understand the full scope and objectives of the project.

**Project Managers:** Focus on the overall project description and external user interfaces to ensure proper alignment with stakeholder expectations and project goals.

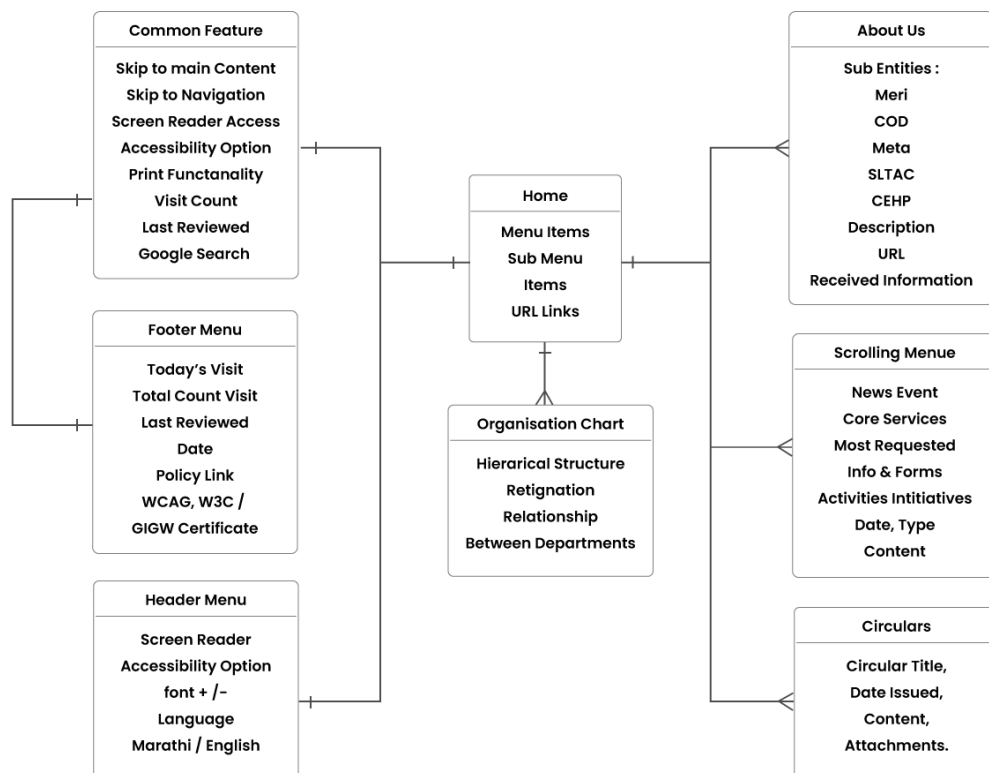
## 1.19 Navigation Structure

<u>S. No.</u>	<u>Tabs/Links</u>	<u>Module</u>	<u>Menu Location</u>
<u>1.</u>	<u>Common Features</u> <ul style="list-style-type: none"> <li><u>• Skip to Main Content</u></li> <li><u>• Skip to Navigation</u></li> <li><u>• Screen Reader Access [CMS Page]</u></li> <li><u>• Accessibility options [Dynamic Page] o Font +/- [Functionality] o Color _____ option [Functionality]</u></li> <li><u>Print [Functionality] • Todays Visit Count, Total visit Count, Date of last reviewed _____ [Dynamic Page] • Search within site [Search Website With _____ Google Customized Search] • Site _____ Map _____ • Marathi/English Version of each webpage</u></li> </ul>	<u>Dynamic + CMS</u>	<u>Common Features</u>
<u>2.</u>	<u>Home</u>	<u>Dynamic</u>	<u>Main Menu</u>
<u>3.</u>	<u>About Us</u> <ul style="list-style-type: none"> <li><u>• vision</u></li> <li><u>• Mission</u></li> <li><u>• organisational chart</u></li> <li><u>• Life at META Campus</u></li> </ul>	<u>Content (CMS)</u>	<u>Main Menu</u>
<u>4.</u>	<u>Training :</u> <ul style="list-style-type: none"> <li><u>• General</u></li> <li><u>• RTC</u></li> </ul>	<u>Content (CMS)</u>	<u>Main Menu</u>

	<ul style="list-style-type: none"> <li>• <a href="#"><u>ATP</u></a></li> <li>• <a href="#"><u>Infrastructure</u></a></li> <li>• <a href="#"><u>Library</u></a></li> <li>• <a href="#"><u>Downloads</u></a></li> </ul>		
<a href="#"><u>5.</u></a>	<a href="#"><u>Professional Exams :</u></a> <ul style="list-style-type: none"> <li>• <a href="#"><u>General</u></a></li> <li>• <a href="#"><u>Syllabus</u></a></li> <li>• <a href="#"><u>Notification</u></a></li> <li>• <a href="#"><u>Registration</u></a></li> <li>• <a href="#"><u>Result</u></a></li> <li>• <a href="#"><u>Downloads</u></a></li> </ul>	<a href="#"><u>Content (CMS)</u></a>	<a href="#"><u>Main Menu</u></a>
<a href="#"><u>6.</u></a>	<a href="#"><u>RTI</u></a> <ul style="list-style-type: none"> <li>• <a href="#"><u>Citizen Charter</u></a></li> </ul>	<a href="#"><u>Content (CMS)</u></a>	<a href="#"><u>Main Menu</u></a>
<a href="#"><u>7.</u></a>	<a href="#"><u>Contact Us:</u></a> <ul style="list-style-type: none"> <li>• <a href="#"><u>Details Of Contacts</u></a></li> </ul>	<a href="#"><u>Content (CMS)</u></a>	<a href="#"><u>Main Menu</u></a>
<a href="#"><u>8.</u></a>	<a href="#"><u>Header Menu</u></a> <ul style="list-style-type: none"> <li>• <a href="#"><u>Screen reader access</u></a></li> <li>• <a href="#"><u>Accessibility option</u></a></li> <li>• <a href="#"><u>Font+/-</u></a></li> <li>• <a href="#"><u>Google custom search</u></a></li> <li>• <a href="#"><u>Marathi/ English</u></a></li> <li>• <a href="#"><u>Site map</u></a></li> <li>• <a href="#"><u>Social media icon</u></a></li> <li>• <a href="#"><u>Login.</u></a></li> </ul>	<a href="#"><u>Content (CMS)</u></a>	<a href="#"><u>Main menu</u></a>
<a href="#"><u>9.</u></a>	<a href="#"><u>Footer menu</u></a> <ul style="list-style-type: none"> <li>• <a href="#"><u>Today's visit count</u></a></li> <li>• <a href="#"><u>Total visit count</u></a></li> </ul>		

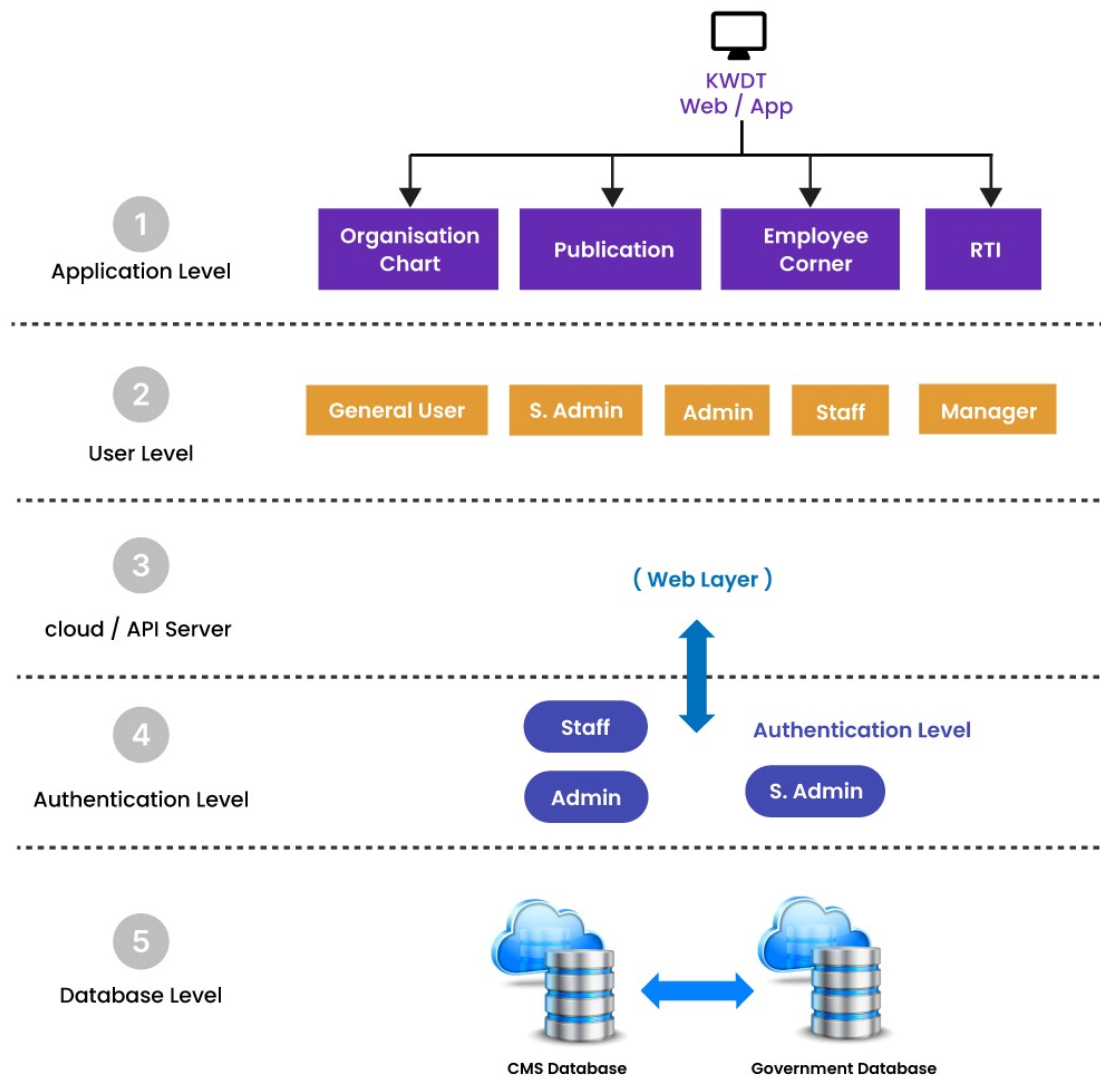
	<ul style="list-style-type: none"> <li>• <u>Date of last Reviewed</u></li> <li>• <u>Link to different policy pages</u></li> <li>• <u>Relevant logos too</u></li> <li>• <u>Certificate- compliance of the latest-WCAG, W3C, GIGW</u></li> </ul>		
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## 1.20 Entity Relationship Diagram



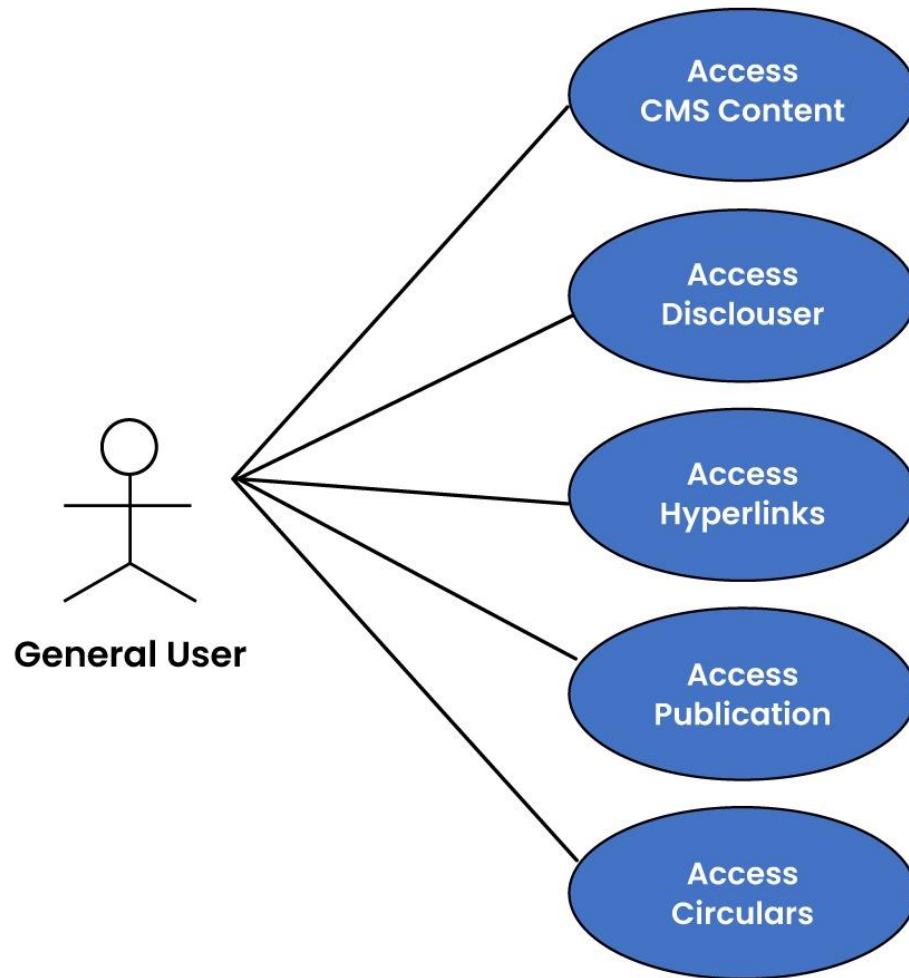
## 1.21 Hierarchical Architecture

### *Hierarchical Model*



## 1.22 Use Cases

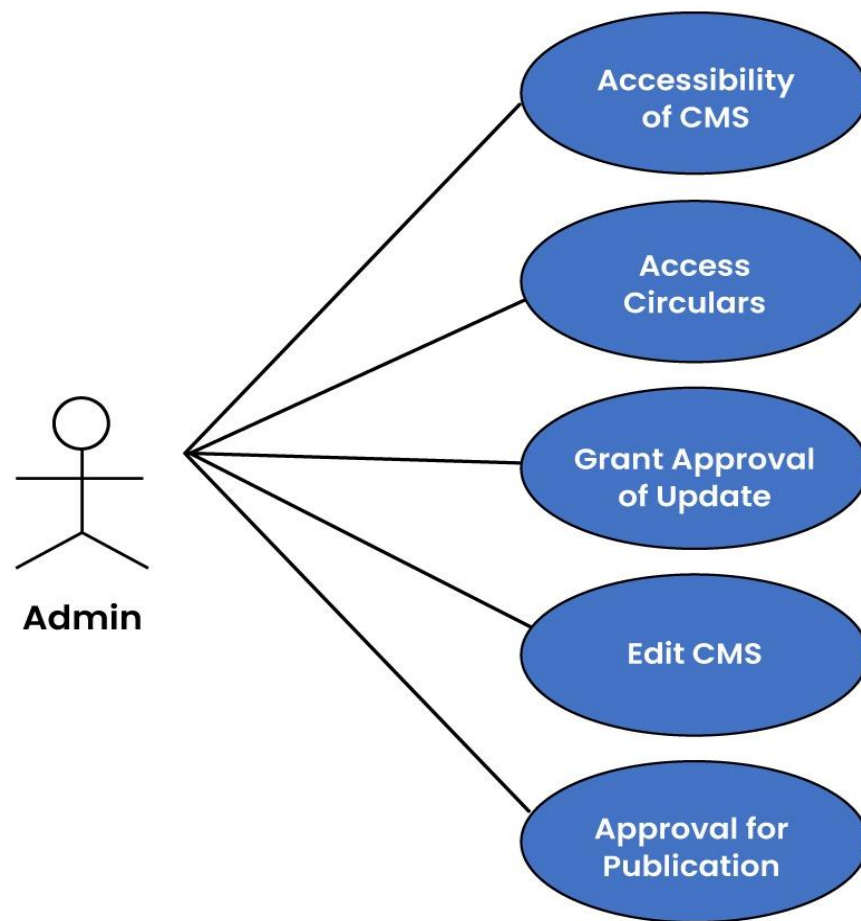
The proposed flow has been given for general public for visiting the website for viewing general information present on the website and the Administration part for maintaining the website.



### 1.23 Use case for Admin:

The Proposed Flow has been given for Admin for handling website 's contents and administrative part for maintaining the website's content of relevant departments .

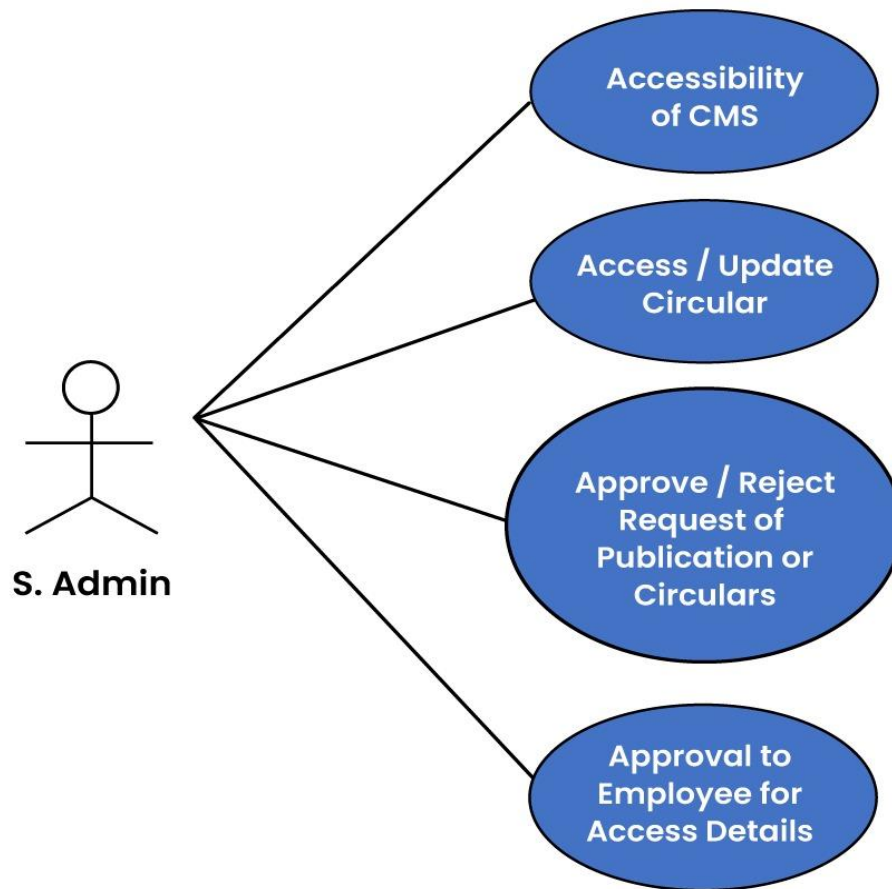




#### 1.24 Use case for super Admin:

The Proposed Flow has been given for super -Admin for handling website 's contents and administrative part for maintaining the website's content.

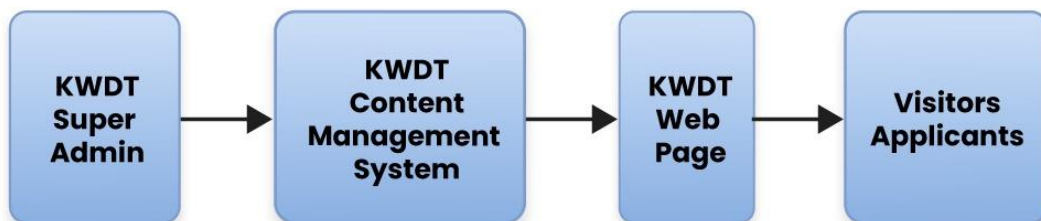
## KWDT



### 1.25 Data Flow Diagrams

DFD – Level 1

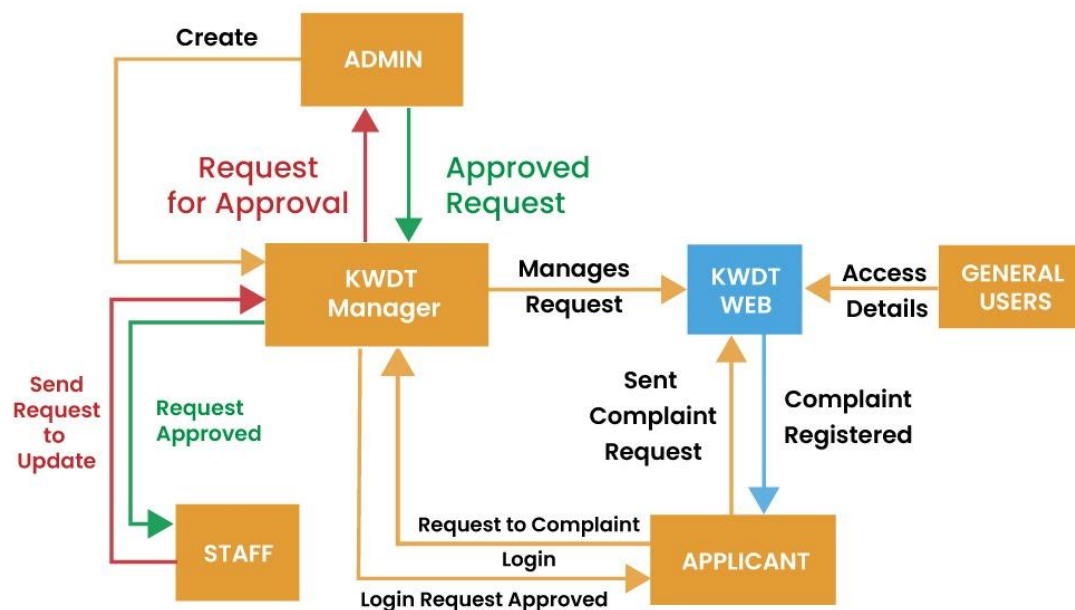
#### KWDT - DFD 1



The diagram showcases a straightforward flow of information, starting from the **KWDT Super Admin**, who manages content in the **CMS**. This content is then reflected on the **KWDT Web Page**, which is accessed by **Visitors/Applicants** for various purposes

## DFD – Level 2

### KWDT: DFD 2



## 1.26 Functional Requirements

### Detailed Requirement

#### 1.27 Requirement ID: (KWDT)FR-1

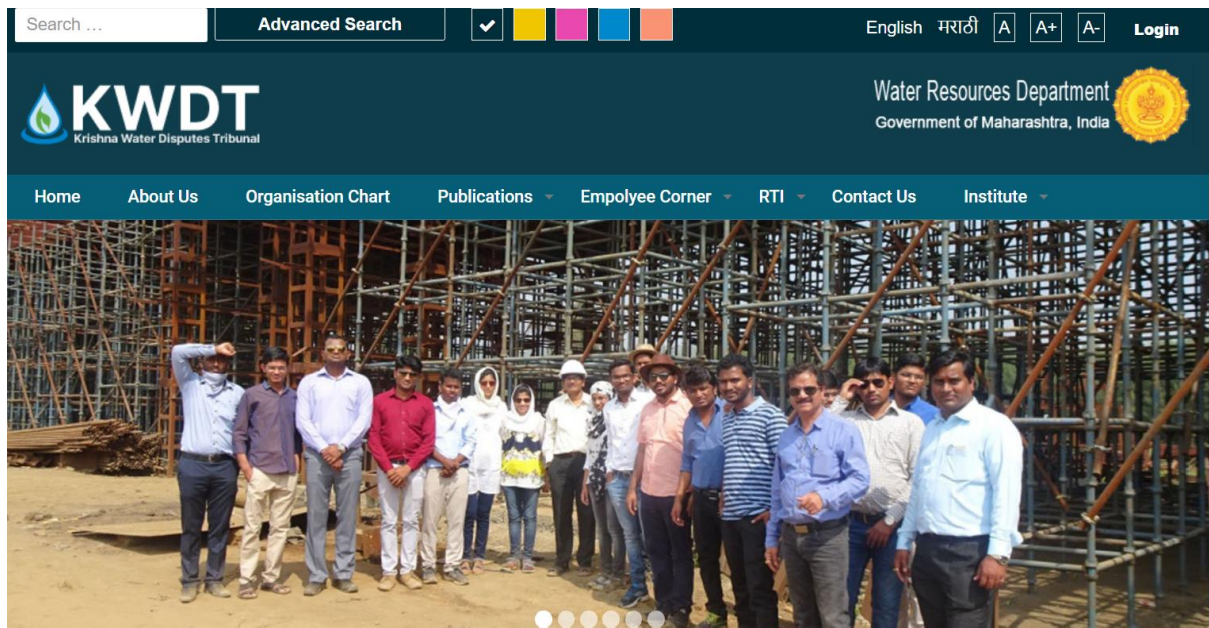
Requirement Name: Home (Menu Navigation)

• Requirement Description: This would be provided under the Menu Bar of the Home Page. The Mouse hover effect is given to its CSS Style. Stimulus/ Response Sequences: The user will direct to the main page of the website, on once clicking on the menu.

Data Fields/Elements: Not Required User Screen:

HOME SCREEN – Desktop View

## HOME SCREEN – Mobile View



<b>Requirement Name:</b>	Home
<b>Requirement Description:</b>	The user will direct to the main page of the website, on once clicking on the menu
<b>Primary Actor:</b>	User, Administrative
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"> <li>Home</li> </ul>
<b>Trigger</b>	when the user interacts with the Home menu item by hovering over it, followed by a click action to access the main page of the website.
<b>Business Module:</b>	Home page will display the information of KWDT
<b>User Screen</b>	





## 1.28 Requirement ID: (KWDT)FR-2

Requirement Name: About Us

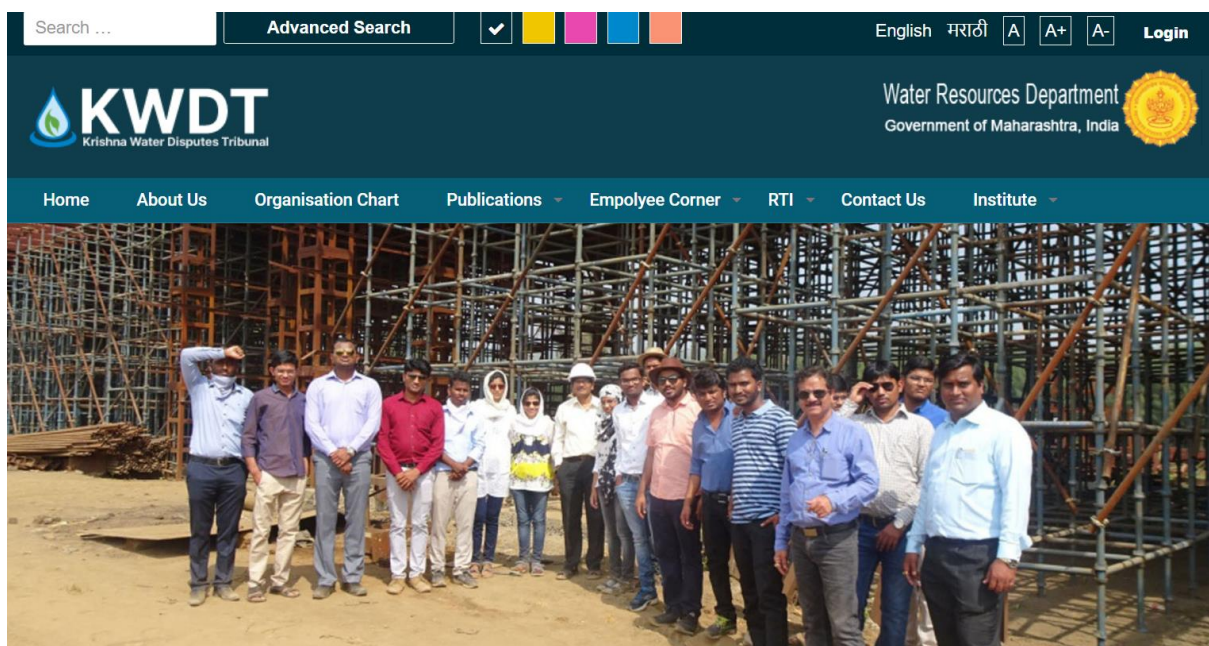
Requirement Description: The menu for About Us would be provided under the main Menu Bar of the Home Page accompanied with the Mouse Hover Effect over its CSS Style.

This will help the department to give the brief introduction about The Krishna Water Disputes Tribunal (KWDT). This will be a content-based CMS page managed by the Site Administrator. Stimulus/ Response Sequences: On moving the cursor over the About Us tab, the following sub-menus will appear on the drop down.

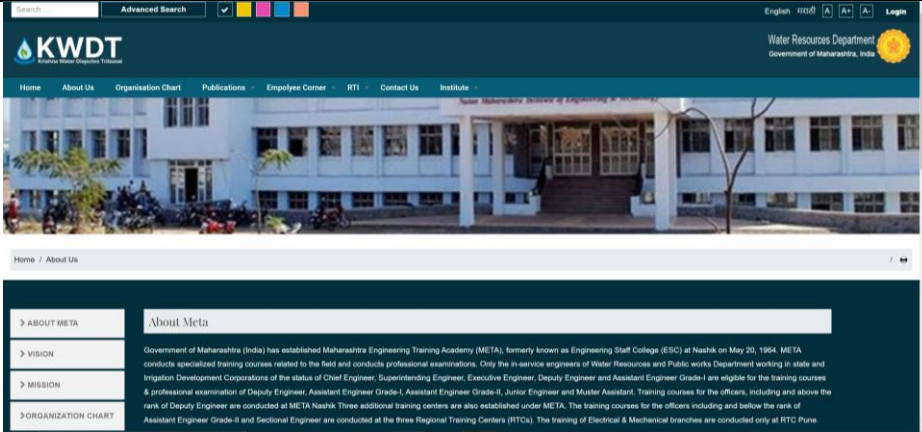
Data Fields/ Elements:

About Us

- General Information
- Work Profile



<b>Requirement Name:</b>	About Us
<b>Requirement Description:</b>	This will help the department to give the brief introduction about The Krishna Water Disputes Tribunal (KWDT).
<b>Primary Actor:</b>	User, Administrative
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"><li>• General Information</li><li>• Work Profile</li></ul>
<b>Trigger</b>	when a user moves their cursor over the About Us menu item on the Home Page, prompting the dropdown menu to display the sub-menu options

<b>Business Module:</b>	The goal of improving user experience and accessibility of information regarding The Krishna Water Disputes Tribunal (KWDT). By offering a well-structured and informative About Us section, the department can effectively communicate its mission and functions to stakeholders and the public
<b>User Screen</b>	

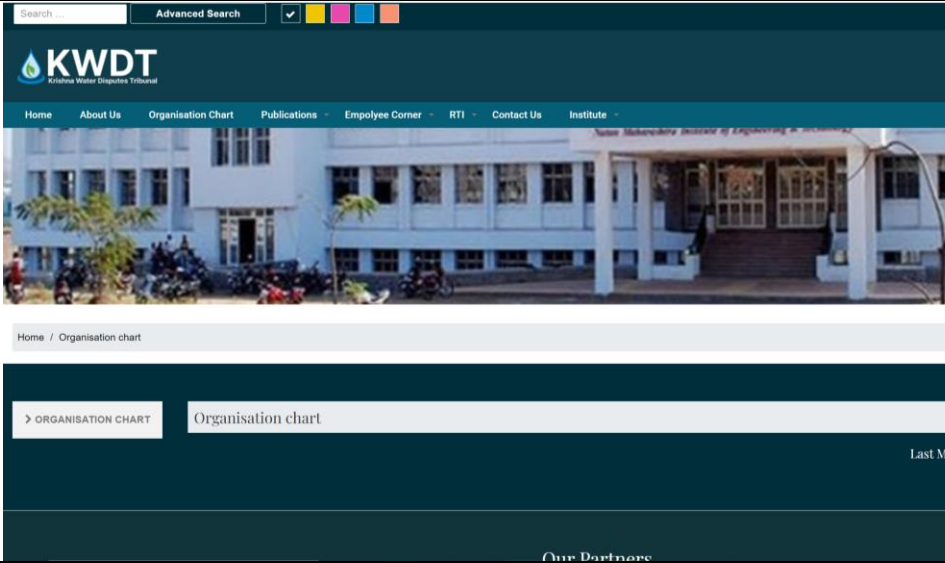
### 1.28.1 Requirement ID: (KWDT)FR-3

**Requirement Name:** Organisation Chart

• **Requirement Description:** The menu for Organization Chart would be provided under the main Menu Bar of the Home Page accompanied with the Mouse Hover Effect over its CSS Style. This will help the department to give the Organization Chart in Krishna Water Disputes Tribunal (KWDT). This will be a content-based CMS page managed by the Site Administrator.

**Data Fields/ Elements:** The categories under Organisation Chart will be managed through CMS i.e. Content Management System.

<b>Requirement Name:</b>	Organisation Chart
<b>Requirement Description:</b>	This will help the department to give the Organization Chart in Krishna Water Disputes Tribunal (KWDT)
<b>Primary Actor:</b>	This will be a content-based CMS page managed by the Site Administrator
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"> <li>Organisation Chart</li> </ul>
<b>Trigger</b>	When a user hovers over the Organisation Chart menu item in the main Menu Bar, prompting the display of the Organisation Chart content
<b>Business Module:</b>	The Organisation Chart module provides a clear visual representation of the Krishna Water Disputes Tribunal's structure, facilitating transparency and communication. Managed via a CMS,

	it allows for easy updates, ensuring stakeholders have access to current organizational information.
User Screen	 <p>The screenshot shows the KWDT (Karnataka Water Disputes Tribunal) website. The header includes a search bar, an 'Advanced Search' button, and social media icons. The navigation menu lists: Home, About Us, Organisation Chart, Publications, Employee Corner, RTI, Contact Us, and Institute. Below the menu is a large banner image of a building. The main content area shows a breadcrumb trail 'Home / Organisation chart' and a section titled 'ORGANISATION CHART' with a sub-header 'Organisation chart'. The footer area is partially visible with the text 'Our Partners'.</p>

#### 1.28.2 Requirement ID: (KWDT)FR-4

**Requirement Name:** Publications and Circulars Module

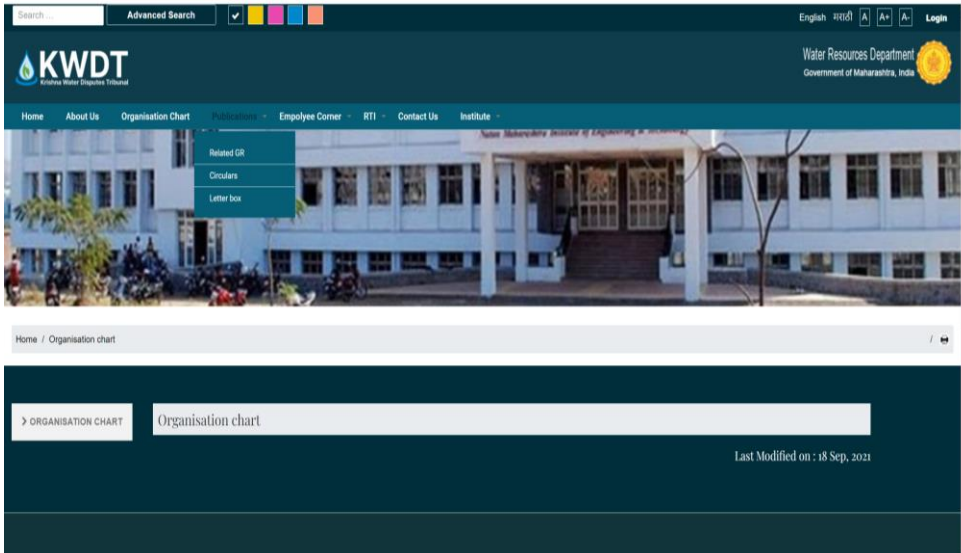
• **Requirement Description:** When a user accesses the Publications and Circulars Module, they will see three sections: Related GR, Circulars, and Letter Box. Clicking on the Related GR section will display a list of documents available in PDF format, while selecting the Circulars section will show a table with details that can be downloaded in Excel format. The Letter Box will allow users to submit feedback or queries.

**Data Fields/ Elements:**

- **Related GR** (Static Page)
  - Document Title
  - Date Issued
  - Description
  - Download Link (PDF)
- **Circulars** (Static Page)
  - Circular Title
  - Date Issued
  - Reference Number
  - Description
  - Download Table (Excel)
- **Letter Box** (Static Page)
  - User Name
  - Email Address
  - Feedback/Query
  - Submit Button

<b>Requirement Name</b>	Publications and Circulars Module
<b>Requirement Description:</b>	the Publications and Circulars Module, they will see three sections: Related GR, Circulars, and Letter Box. Clicking on the Related GR



	section will display a list of documents available in PDF format, while selecting the Circulars section will show a table with details that can be downloaded in Excel format
<b>Primary Actor:</b>	Administrative, User
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"> <li>• <b>Related GR</b></li> <li>• <b>Circulars</b></li> <li>• <b>Letter Box</b></li> </ul>
<b>Trigger</b>	Publications and Circulars Module is accessed when a user clicks on the corresponding menu option on the home page, leading them to the module's main interface
<b>Business Module:</b>	This module serves as a centralized hub for users to access important documents related to the Krishna Water Disputes Tribunal, including government resolutions (GR), circulars, and a feedback mechanism. By providing downloadable resources and a platform for user interaction, it enhances transparency, communication, and engagement handled by the Administrative
<b>User Screen</b>	

### 1.28.3 Requirement ID: (KWDT)FR-5

**Requirement Name:** Employee Corner Module

• **Requirement Description:** The Employee Corner Module will serve as a static page that provides essential resources for employees of the Water Resources Department (WRD) in Maharashtra. It will include hyperlinked sections to the PORTAL Employee Corner, a Women Sexual Harassment Complaint Box linked to the Shebox site, and a table of circulars with relevant details that can be downloaded in Excel format.

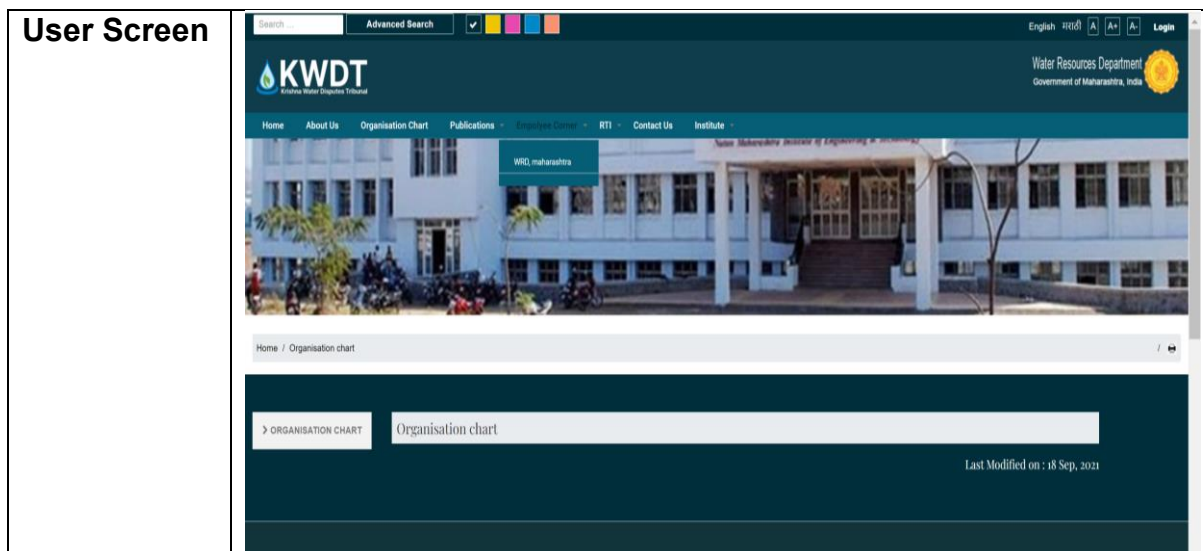
**Stimulus/Response sequences:** When a user accesses the Employee Corner, they will see a hyperlinked menu directing them to the PORTAL Employee Corner. Clicking on the Women Sexual Harassment Complaint Box will redirect them to the Shebox site. Additionally, selecting the Circulars section will display a table of relevant details, with an option to download the data in Excel format.

**Data Fields/Elements:**

- Hyperlinked Menu to PORTAL Employee Corner (Link)

- Women Sexual Harassment Complaint Box (Link)
- Circulars Table (Static Page)
  - Circular Title
  - Date Issued
  - Reference Number
  - Description
  - Download Table (Excel)

<b>Requirement Name</b>	Employee Corner Module
<b>Requirement Description:</b>	It will include hyperlinked sections to the PORTAL Employee Corner, a Women Sexual Harassment Complaint Box linked to the Shebox site, and a table of circulars with relevant details that can be downloaded in Excel format
<b>Primary Actor:</b>	
<b>Main Success Scenario:</b>	<p>Screen Containing following Functionality</p> <ul style="list-style-type: none"> <li>○ Hyperlinked Menu to PORTAL Employee Corner (Link)</li> <li>○ Women Sexual Harassment Complaint Box (Link)</li> <li>○ Circulars Table (Static Page)               <ul style="list-style-type: none"> <li>● Circular Title</li> <li>● Date Issued</li> <li>● Reference Number</li> <li>● Description</li> <li>● Download Table (Excel)</li> </ul> </li> </ul>
<b>Trigger</b>	Employee Corner Module is activated when a user clicks on the "Employee Corner" menu option on the home page, leading them to the module's dedicated page
<b>Business Module:</b>	This module is designed to provide vital resources and information for employees of the Water Resources Department (WRD) in Maharashtra. By facilitating easy access to the PORTAL Employee Corner, a dedicated complaint mechanism for harassment, and a downloadable circulars table, it aims to promote employee welfare, enhance communication, and ensure transparency within the department. This centralized resource hub empowers employees with the necessary tools and information to perform their roles effectively and safely. Handled by the site Administrative.



#### 1.28.4 Requirement ID: (KWDT)FR-6

**Requirement Name:** RTI Content.

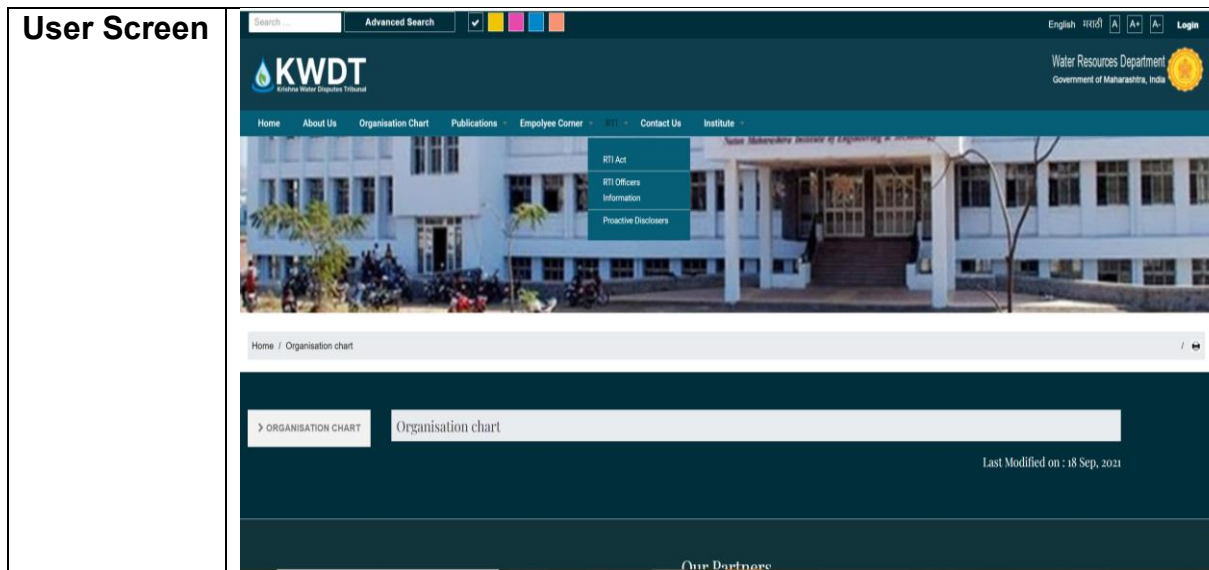
• **Requirement Description:** RTI menu will be a content, Page. The KWDT Administrator will manage RTI Content.

**Stimulus/ Response Sequences:** On a click of RTI, user will view the RTI Details.

**Data Fields/ Elements:**

- 1) RTI
  - i. RTI ACT
  - ii. RTI Officer Info.
  - iii. Proactive Discloser.
- 2) Citizen Charter

<b>Requirement Name</b>	RTI Content.
<b>Requirement Description:</b>	RTI menu will be a content, Page
<b>Primary Actor:</b>	The KWDT Administrator will manage RTI Content
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"> <li>○ RTI               <ol style="list-style-type: none"> <li>1) RTI ACT</li> <li>2) RTI Officer Info.</li> <li>3) Proactive Discloser.</li> </ol> </li> <li>○ Citizen Charter</li> </ul>
<b>Trigger</b>	activated when a user clicks on the "RTI" menu option on the home page, directing them to the RTI details page.
<b>Business Context:</b>	The RTI Content Module provides essential information about the Right to Information Act, RTI officer details, and proactive disclosures, enhancing transparency and accountability within the KWDT. Managed by the KWDT Administrator, it empowers citizens to access vital information, supporting civic engagement and informed decision-making



### 1.28.5 Requirement ID: (KWDT)FR-7

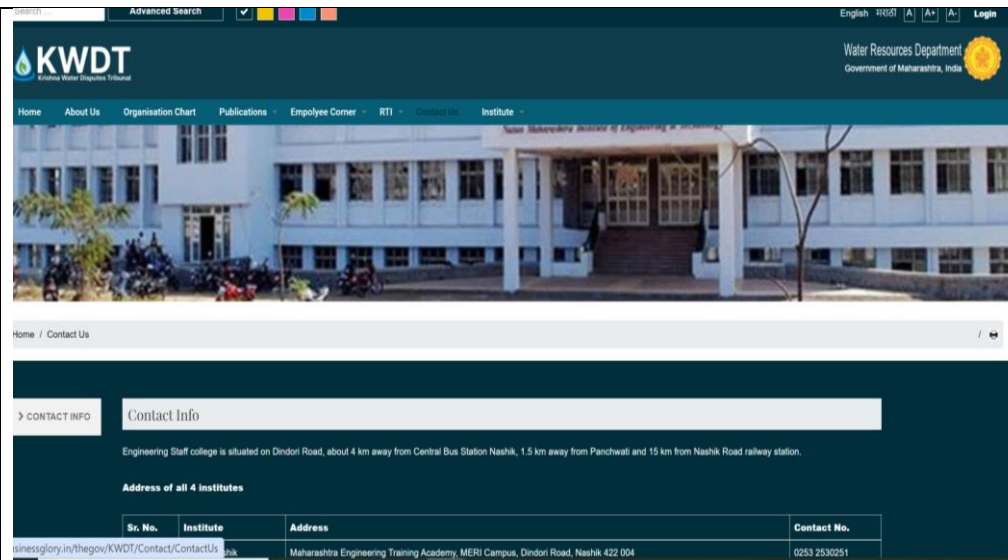
**Requirement Name:** Contact Us

• **Requirement Description:** The menu for Contact Us would be provided under the main Menu Bar of the Home Page accompanied with the Mouse Hover Effect over its CSS Style. This will help the department to give the detail about contact details of KWDT. This will be a content-based CMS page managed by the Site Administrator.

**Data Fields/ Elements:** The categories under Contact Us will be managed through CMS i.e. Content Management System.

<b>Requirement Name</b>	Contact Us
<b>Requirement Description:</b>	This will help the department to give the detail about contact details of KWDT
<b>Primary Actor:</b>	This will be a content-based CMS page managed by the Site Administrator.
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"> <li>Contact us</li> </ul>
<b>Trigger</b>	the "Contact Us" menu item in the main navigation bar, the page displaying contact information for KWDT is accessed.
<b>Business Context:</b>	The Contact Us module facilitates communication between KWDT and its stakeholders by providing essential contact details. This content-managed section ensures users can easily find and reach out for inquiries or support, promoting transparency and responsiveness.

## User Screen



### 1.28.6 Requirement ID: (KWDT)FR-8

#### Requirement Name: Media Gallery

• **Requirement Description:** Content comes from the Video/Photo management Module. We will develop an advanced Media gallery module to allow website team to publish best quality photos/videos on the website. Some of the unique features of Media gallery module will be:

- o Will allow uploading of Image/Video Name, Image/Video, Image/Video Description and Krishna Water Disputes Tribunal (KWDT)tags for each image/Video.
- o Will have facility to view/add/edit/delete Images/Video in JPEG, GIF, PNG and FLV format.
- o Will allow review, editing and publishing layers to ensure correctness of the content.

<b>Requirement Name:</b>	Media Gallery
<b>Requirement Description:</b>	Content comes from the Video/Photo management Module. We will develop an advanced Media gallery module to allow website team to publish best quality photos/videos on the website
<b>Primary Actor:</b>	This will manage by the Site Administrator.
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"> <li>Media Gallery</li> </ul>
<b>Trigger</b>	user accesses the "Media Gallery" section, they will be presented with a gallery of photos and videos related to KWDT.
<b>Business Context:</b>	KWDT's online presence by showcasing high-quality multimedia content. It enables the website team to efficiently manage and publish visual materials, ensuring that stakeholders have access to relevant and engaging resources. This promotes transparency and fosters a connection with the community.
<b>User Screen</b>	

#### 1.28.7 Requirement ID: (KWDT) FR-9

**Requirement Name:** Daily Data

• **Requirement Description:** The Daily Data menu will be accessible from the main Menu Bar located on the Home Page. This specific tab will display information pertaining to Daily Rainfall (Conventional), Daily River Gauge (Conventional), and Dam Storage Data. The Daily Data section is further categorized into submenus. Some of these submenus will be managed through the Content Management System (CMS), while others will operate dynamically.

o **Daily Rainfall (Conventional):** Daily Rainfall Data in monsoon season measured manually at Standard Rain gauge Stations – SRG. Collected Data will be provided by the department and we will show that data into website with graphical representation. Data will be searched based on different criteria.

- Maximum Rainfall
- Minimum Rainfall
- Cumulative Rainfall till date for this year (mm)
- Cumulative Rainfall till same date in previous year (mm)
- Query based search

o **Daily River gauge (Conventional):** Daily River gauge (River Discharge) Data in monsoon season measured manually at River Gauging sites – GD Sites. All River gauge observations are made at 08:30 hrs. IST daily. This data is instantaneous data. Collected Data will be provided by the department and we will show that data into website with graphical representation. Data will be searched based on different criteria.

- Maximum River Discharge
- Minimum River Discharge
- Query based search

o **Dam Storage Data:** User can see Water Storage Reports for both today and previously recorded Data. Source of this data is official website of Water Resources Department, Maharashtra.

- On Click User can see today's and previous Water Storage Data

**Data Fields/ Elements:** The categories under Daily data will be managed through Daily Data Module.

**Daily Data**

- o Daily Rainfall (Conventional)
- o Daily River gauge (Conventional)
- o Dam Storage Data

<b>Requirement Name:</b>	Daily Data
<b>Requirement Description:</b>	This specific tab will display information pertaining to Daily Rainfall (Conventional), Daily River Gauge (Conventional), and Dam Storage Data
<b>Primary Actor:</b>	This will manage by the Site Administrator.
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"><li>• Daily Data</li></ul>
<b>Trigger</b>	"Daily Data" menu item from the main menu bar, they will be taken to a section displaying various daily data related to rainfall, river gauge measurements, and dam storage
<b>Business Context:</b>	The Daily Data module provides critical, real-time information on rainfall, river gauge readings, and dam storage levels, supporting effective water resource



	management handled by the site administrative. By making this data accessible and visually engaging, KWDT promotes transparency, enhances public trust, and enables informed decision-making among stakeholders.
<b>User Screen</b>	

#### 1.28.8 Requirement ID: (KWDT)FR-10

**Requirement Name:** Events

• **Requirement Description:** Events Information will be provided on the home page of the KWDT website. The respective module will show the data related to the Events. This module will help department in managing details of their upcoming Events, past events, events catalogue. We will develop this module with the following features:

o Add / Edit / Deactivate Events through secure online control panel.

Manage Events Details including the following:

Events General Information.

Schedule.

Registration information.

Download documents.

Manage Events details including the following:

- Upload Events Photos.
- Upload Post Events documents.
- Upload Events details.

<b>Requirement Name:</b>	Events
<b>Requirement Description:</b>	Events Information will be provided on the home page of the KWDT website. The respective module will show the data related to the Events.
<b>Primary Actor:</b>	This will manage by the Site Administrator.
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ol style="list-style-type: none"> <li>1. Events General Information.</li> <li>2. Schedule.</li> <li>3. Registration information.</li> <li>4. Download documents.</li> <li>5. Manage Events details including the following: <ul style="list-style-type: none"> <li>• Upload Events Photos.</li> <li>• Upload Post Events documents.</li> <li>• Upload Events details</li> </ul> </li> </ol>
<b>Trigger</b>	A user clicks on the "Events" tab in the main menu of the KWDT website.
<b>Business Context:</b>	The Events module enables KWDT to efficiently manage and share information about upcoming and past events. Which is maintained by the KWDT administrative. This functionality enhances user engagement, facilitates participation, and keeps stakeholders informed about departmental activities, promoting transparency and community involvement.
<b>User Screen</b>	

#### 1.28.9 Requirement ID: (KWDT)FR-11

**Requirement Name:** Footer Links

• **Requirement Description:** The links that appear at the bottom of every page are referred as Footer Links. These are useful for the providing the useful and miscellaneous link of the website.

**Stimulus/ Response Sequences:** On a click of the respective footer link, user can view the details.

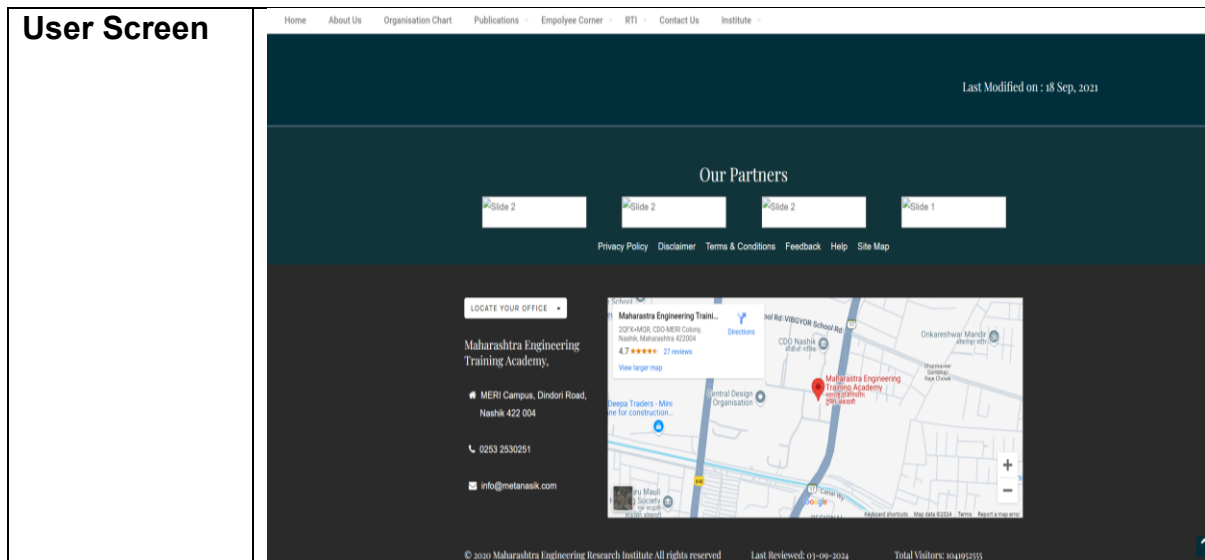
**Data Fields/ Elements:** The following modules will necessary be cover under the Archive

- Privacy Policy
- Disclaimer
- Terms & Conditions
- Feedback
- Help
- Policies

Site Map

<b>Requirement Name:</b>	Footer Links
<b>Requirement Description:</b>	These are useful for the providing the useful and miscellaneous link of the website.
<b>Primary Actor:</b>	Administrative
<b>Main Success Scenario:</b>	Screen Containing following Functionality <ul style="list-style-type: none"><li>➤ Privacy Policy</li><li>➤ Disclaimer</li><li>➤ Terms &amp; Conditions</li><li>➤ Feedback</li><li>➤ Help</li><li>➤ Policies</li><li>➤ Site Map</li></ul>
<b>Trigger</b>	A user clicks on any of the footer links displayed at the bottom of the KWDT website.
<b>Business Context:</b>	The Footer Links enhance user navigation by providing quick access to essential information such as privacy policies, feedback options, and terms of use. This fosters transparency and ensures users can easily find important resources related to the KWDT website. Maintained (add, update, delete) by the Site Administrative





User Screen	
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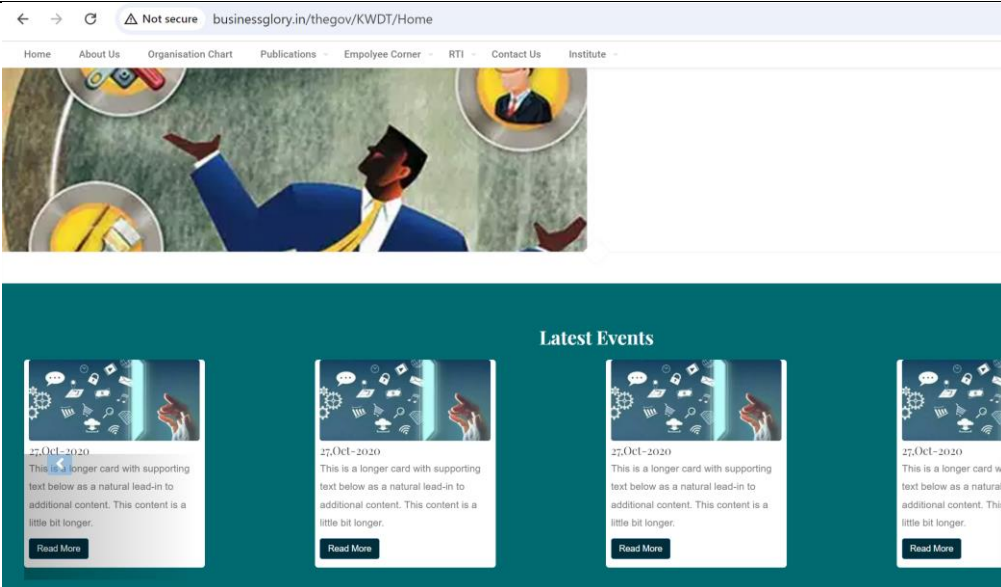
#### 1.28.10 Requirement ID: (KWDT)FR-12

**Requirement Name:** Latest News

• **Requirement Description:** Latest News Information will be provided on the home page of the KWDT. The respective module will show the data related to the Latest News.

- o Will allow Administrator to Publish Latest News & Announcements on the website.
- o Administrator will be able to View/Add/Edit/Delete News by adding News Titles and Details through WYSIWYG editor.
- o News added here will need to be reviewed and approved before getting published on the website

<b>Requirement Name:</b>	Latest News
<b>Requirement Description:</b>	Latest News Information will be provided on the home page of the KWDT website
<b>Primary Actor:</b>	Administrative
<b>Main Success Scenario:</b>	
<b>Trigger</b>	When an administrator submits news for review, which is then approved and published on the KWDT home page
<b>Business Context:</b>	<p>The Latest News module will be featured on the KWDT home page, providing essential updates and announcements to users.</p> <ul style="list-style-type: none"> <li>• <b>Content Management:</b> <ul style="list-style-type: none"> <li>o <b>Administrator Functions:</b> Admins can publish news and announcements.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>○ <b>WYSIWYG Editor:</b> Admins can view, add, edit, and delete news using a user-friendly editor.</li> <li>○ <b>Review Process:</b> News items require approval before publication to ensure accuracy.</li> </ul>
<b>User Screen</b>	 <p>The screenshot shows the homepage of businessglory.in. The browser address bar indicates the URL is businessglory.in/thegov/KWDT/Home. The navigation bar includes links for Home, About Us, Organisation Chart, Publications, Employee Corner, RTI, Contact Us, and Institute. The main content area features a large hero image of a man in a blue suit pointing upwards. Below this, there is a section titled 'Latest Events' which displays four identical event cards. Each card has a date of 27, Oct - 2020 and a placeholder text: 'This is a longer card with supporting text below as a natural lead-in to additional content. This content is a little bit longer.' Each card also has a 'Read More' button.</p>

#### 1.28.11 Requirement ID: (KWDT)FR-13

##### Requirement Name: Events

• **Requirement Description:** Events Information will be provided on the home page of the KWDT website. The respective module will show the data related to the Events. This module will help department in managing details of their upcoming Events, past events, events catalogue. We will develop this module with the following features:

o Add / Edit / Deactivate Events through secure online control panel.

Manage Events Details including the following:

Events General Information.

Schedule.

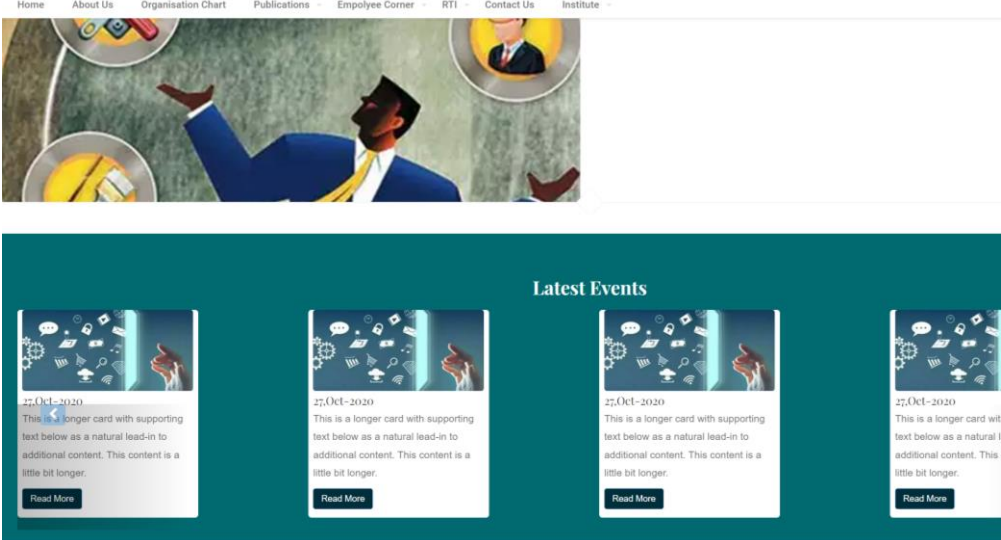
Registration information.

Download documents.

Manage Events details including the following:

- Upload Events Photos.
- Upload Post Events documents.
- Upload Events details.

<b>Requirement Name:</b>	Events
<b>Requirement Description:</b>	The respective module will show the data related to the Events. This module will help department in managing details of their upcoming Events, past events, events catalogue
<b>Primary Actor:</b>	Administrative
<b>Main Success Scenario:</b>	Screen Containing following Functionality

<b>Trigger</b>	When an administrator adds, edits, or deactivates events through the secure online control panel, updating the displayed information on the KWDT home page.
<b>Business Context:</b>	<p>The Events module will be featured on the KWDT home page to manage and display information about upcoming and past events.</p> <ul style="list-style-type: none"> <li>• <b>Visibility:</b> Prominently displays event information.</li> <li>• <b>Event Management:</b> <ul style="list-style-type: none"> <li>○ <b>Add/Edit/Deactivate Events</b> via a secure control panel.</li> <li>○ Manage details including schedule, registration info, and downloadable documents.</li> <li>○ Upload event photos and post-event documents.</li> </ul> </li> </ul>
<b>User Screen</b>	 <p>The screenshot displays the KWDT home page. At the top is a navigation bar with links: Home, About Us, Organisation Chart, Publications, Employee Corner, RTI, Contact Us, and Institute. Below the navigation bar is a large hero image featuring a man in a blue suit and yellow tie, gesturing with his hands. Underneath the hero image is a section titled 'Latest Events' with a teal background. This section contains four identical event cards. Each card has a header image with icons, a date '27, Oct - 2020', a paragraph of placeholder text, and a 'Read More' button.</p>