

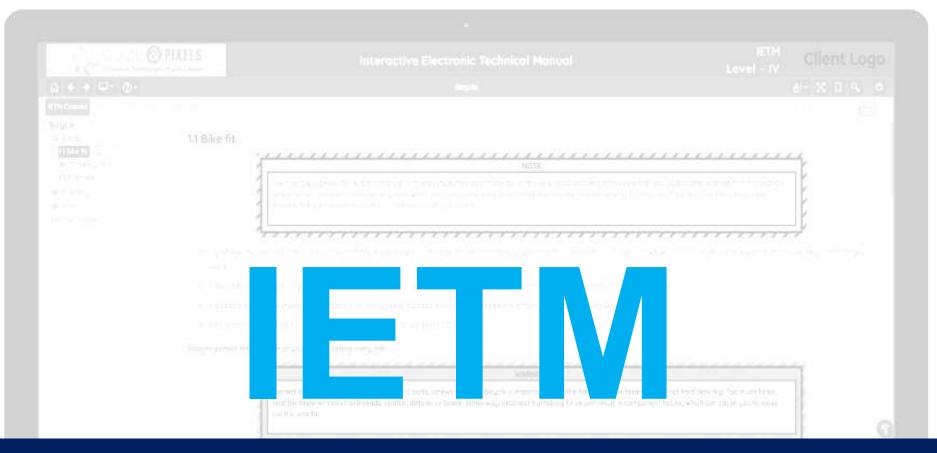
# IETM Knowledge Center



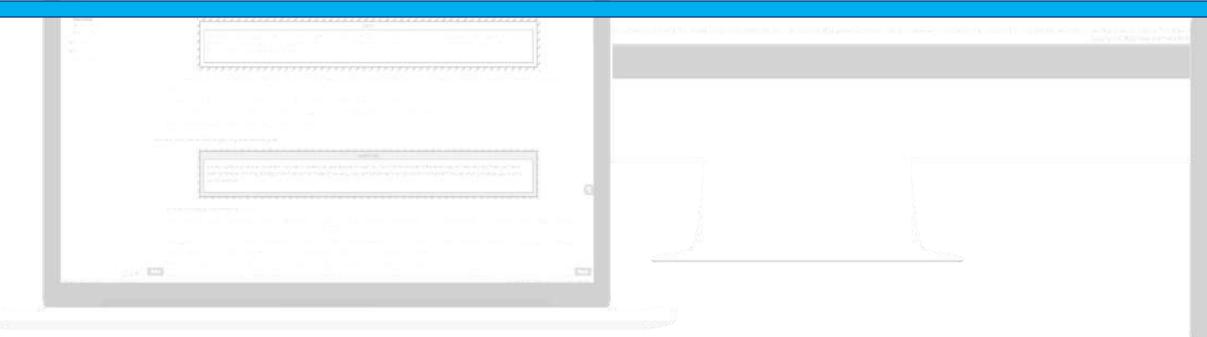


# IETM Development is Our Passion not Just Business





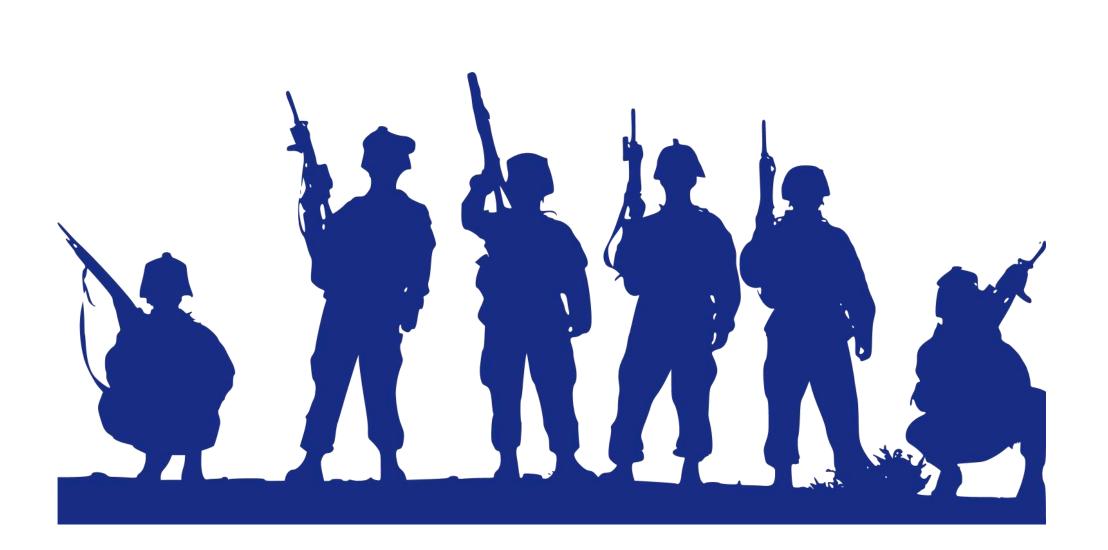
#### Interactive Electronic Technical Manual







If you are a supplier of defence then along with the system/equipment you also need to provide Training Aids





**CBT** 



**Charts and Blowups** 



Video Film



**Training Work Modules** 



**Manuals Hard Copies** 





For example, the maintenance and operation manuals of a warship, which used to occupy 300 350 sq. feet of prime area with thousands of pages of technical literature





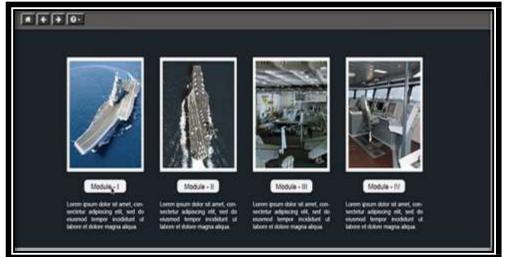


Occupy 300 -350 sq. feet of prime area



Difficult to refer some operating process or trouble shooting from thousands of hardcopies





To address these issues IETMs were introduced



#### Paper Based Manuals



User Handbook (UHB)

Design Specification (DS)

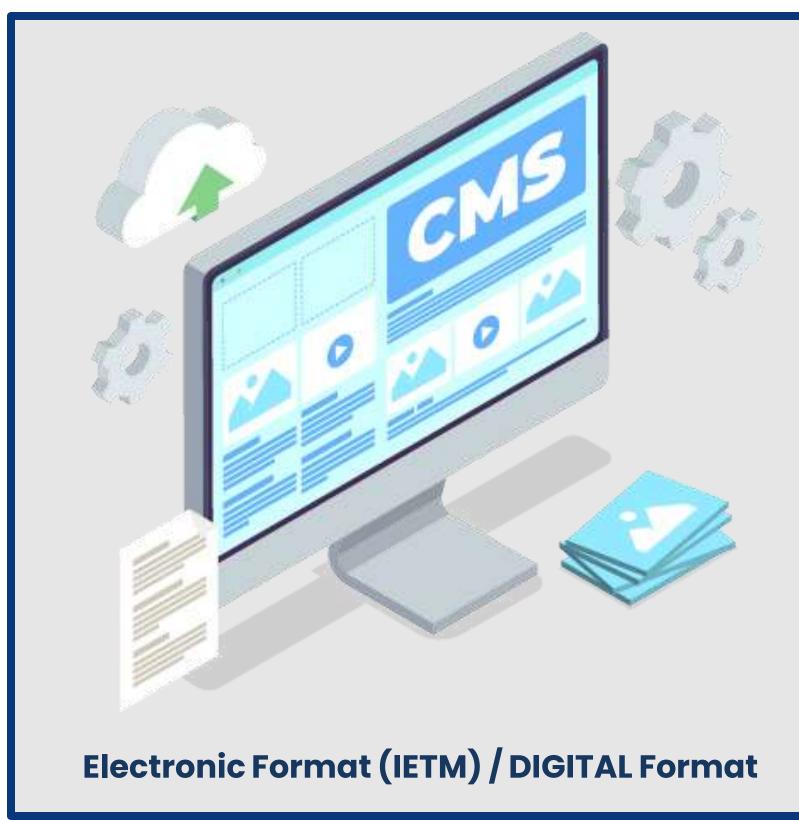
Technical Manuals (TM)

Illustrated Spare Parts List (ISPL)

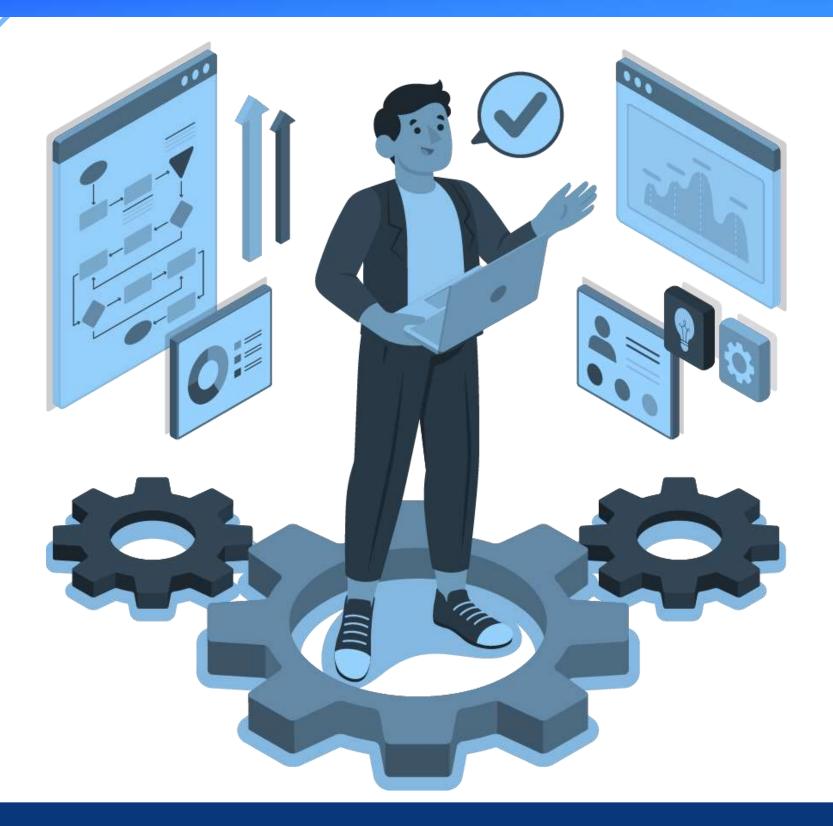
Manufactured Recommended List of Spars (MRLS)

Diagnostics and Installation (DIM)









❖ IETMs are a portable, electronic "library" which contains thousands of pages of documentation and images and allows end users to trace technical documentation in a more efficient manner.



#### Understand the Meaning of the IETM

#### **Manual**

Manual means any literature organized or written in a prescribed manner to guide the user

### Technical Manual

This means the literature is technical, like user manuals, maintenance manuals etc. Hard copy

#### Electronic Technical Manual

This means the manual is available in the form of an electronic version which simply means digital format or softcopy. It can be a PDF file or a databasedriven software application

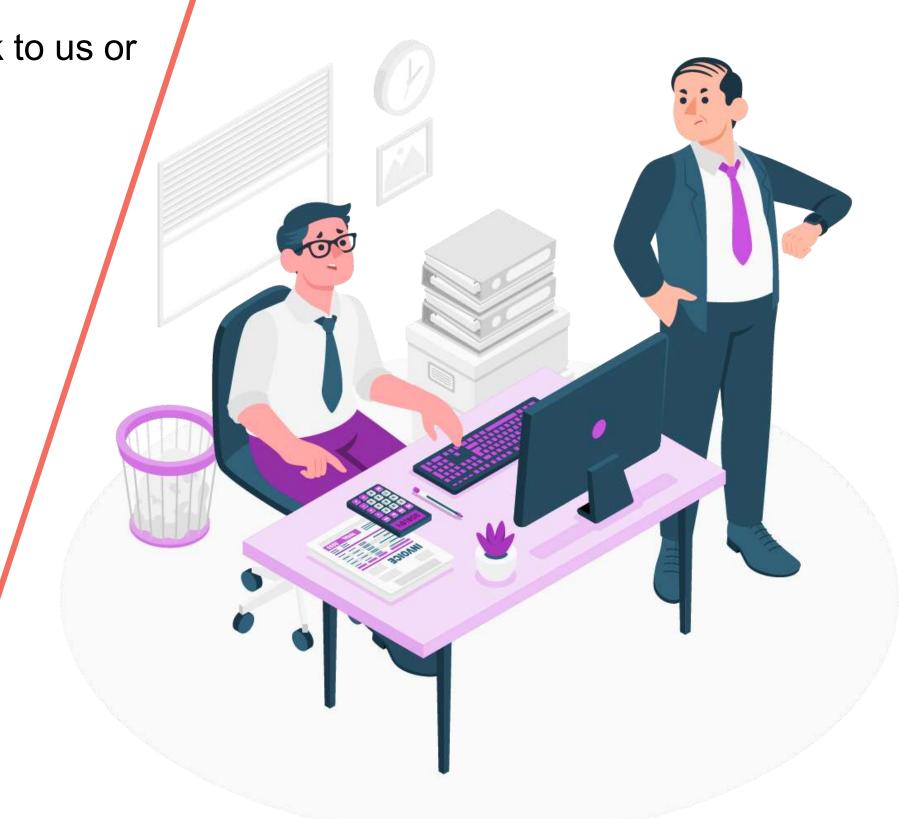
## Interactive Electronic Technical Manual

- Let us first understand the meaning of Interactive.
- The meaning of interactive is two people or things influencing each other.
- Allowing a two-way flow of information between an electronic device /computer and a user; responding to a user's input.
- Involving the actions or input of a user. Especially
- It means when the Electronic User manuals Interact and respond with the user, that is you, it will become an Interactive Electronic Technical manual.



#### Understand the Meaning of the IETM

- As per the above definitions, it is clear that we need a Technical Manual that too in soft copy and which will be able to talk to us or able to respond to us.
- When the Manual responds to user questions then it is called an Interactive Electronic Technical Manual
- How will the document be able to respond?
- We need to embed or integrate this soft copy or content into one application so that the application will respond or interact.
- What are the common interactivity features so that the User will be able to get the information from the software?



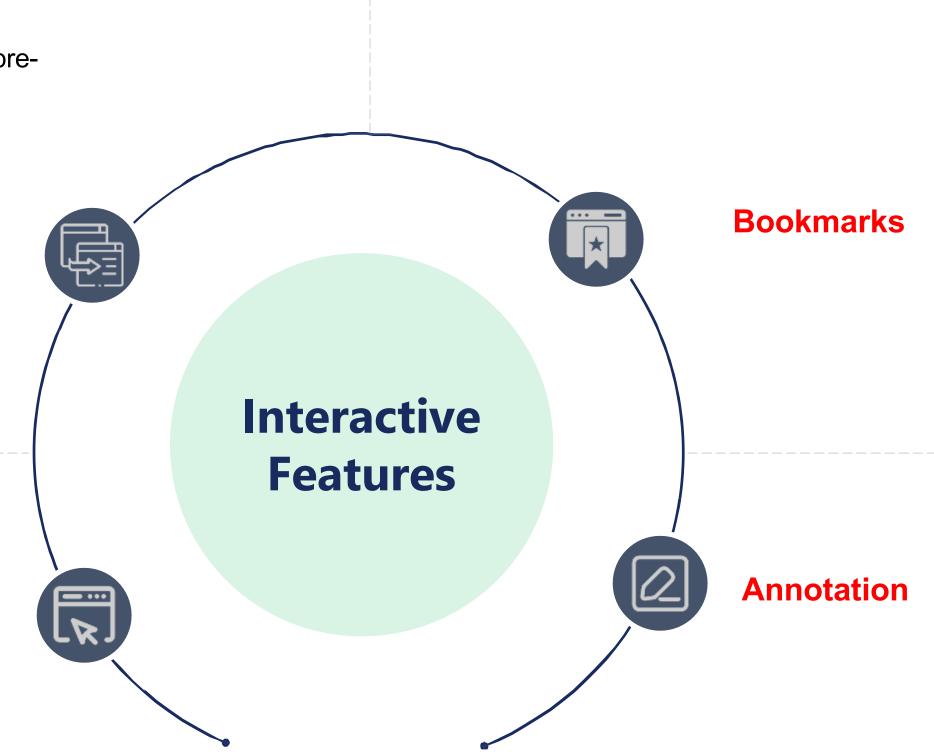


#### **Navigation**

- **Linear navigation**(moving in the fixed or predefined path-next previous topics)
- Non-liner navigation (User can go to any topic randomly)
  - Page Search
  - Global search
  - Best matched
  - Content tree
  - Related topics
  - o Core IETM
  - Documents
  - Drawings

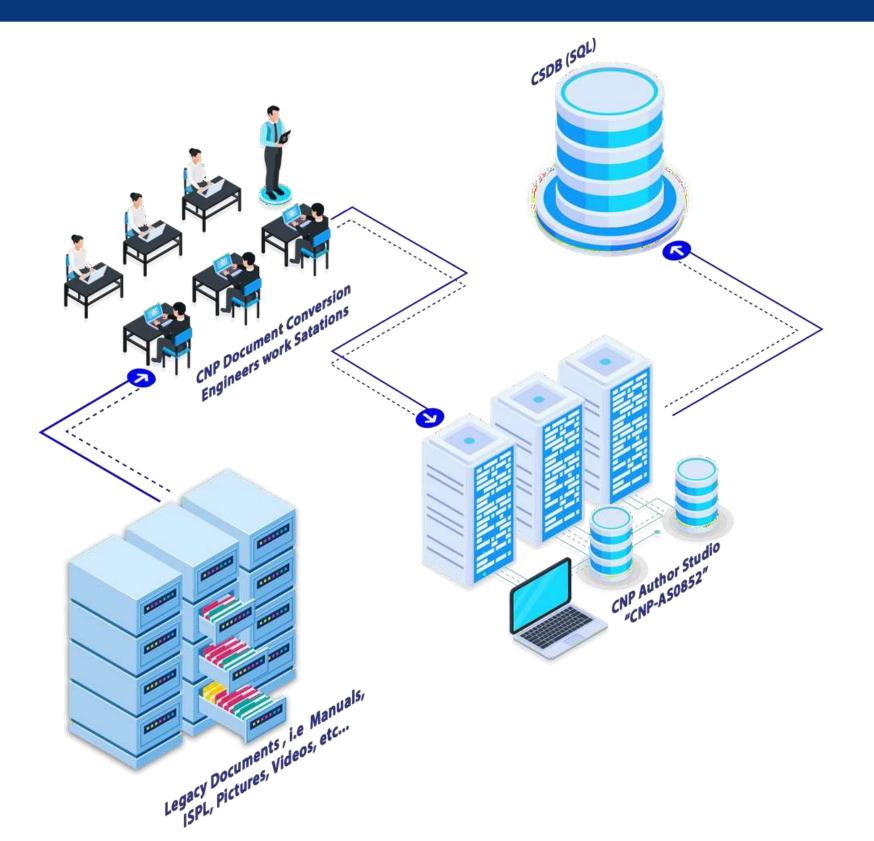
#### **Interactivity**

- Hyperlinks
- Hot Spots
- Text hotspot
- Image hotspot
- Video Hotspot



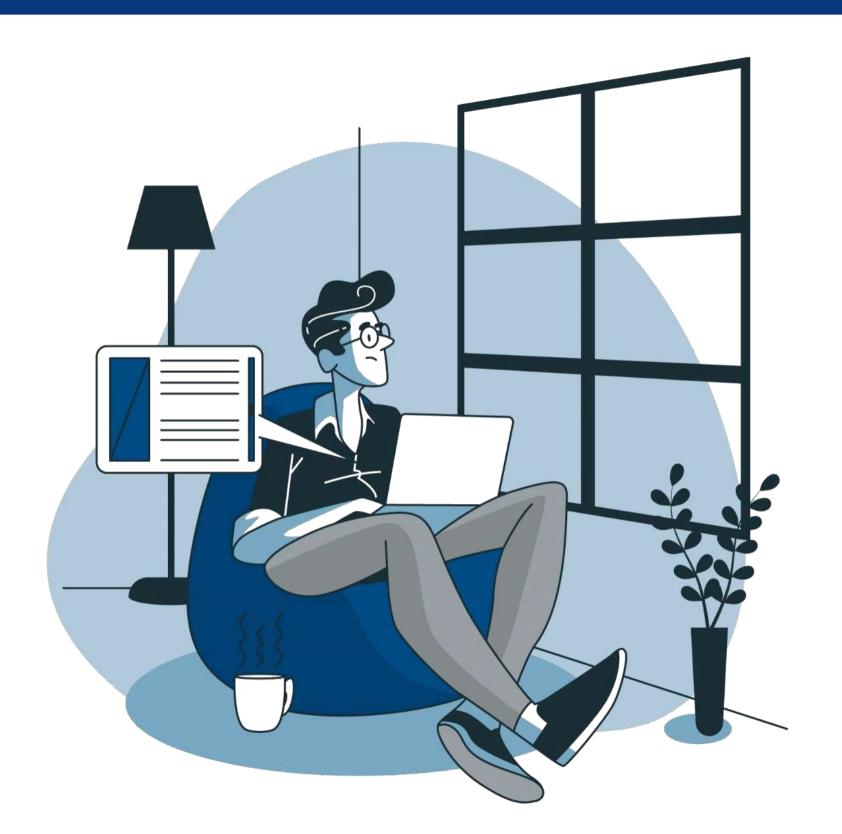


The documents and pages are many hence, for easy and fast accessibility complete content is converted and stored as a database.



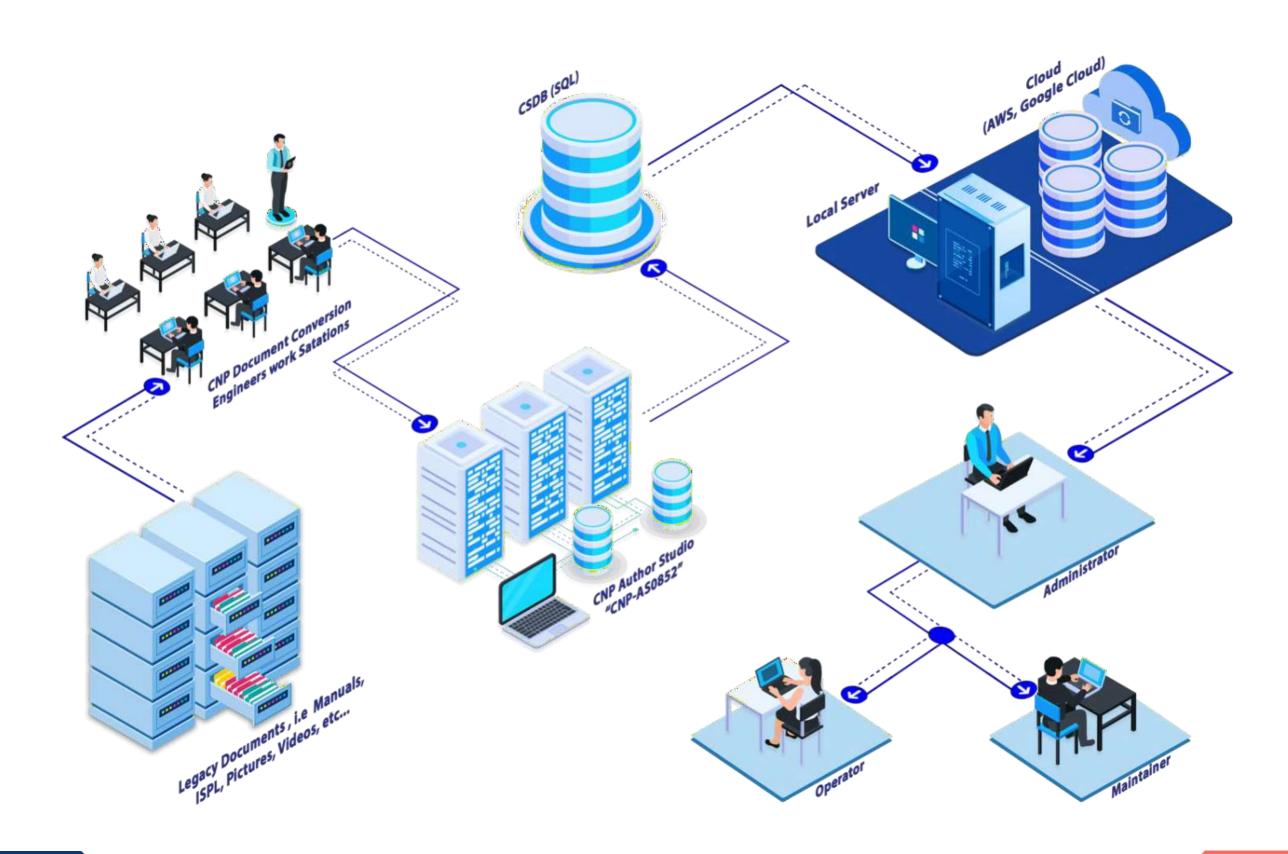


Whenever the user wants some information, IETM software produces the information in a fraction of a second.





IETM is a combination of software applications and databases.







Purpose of the Manual is to give information related to the equipment to the end user for quick reference.

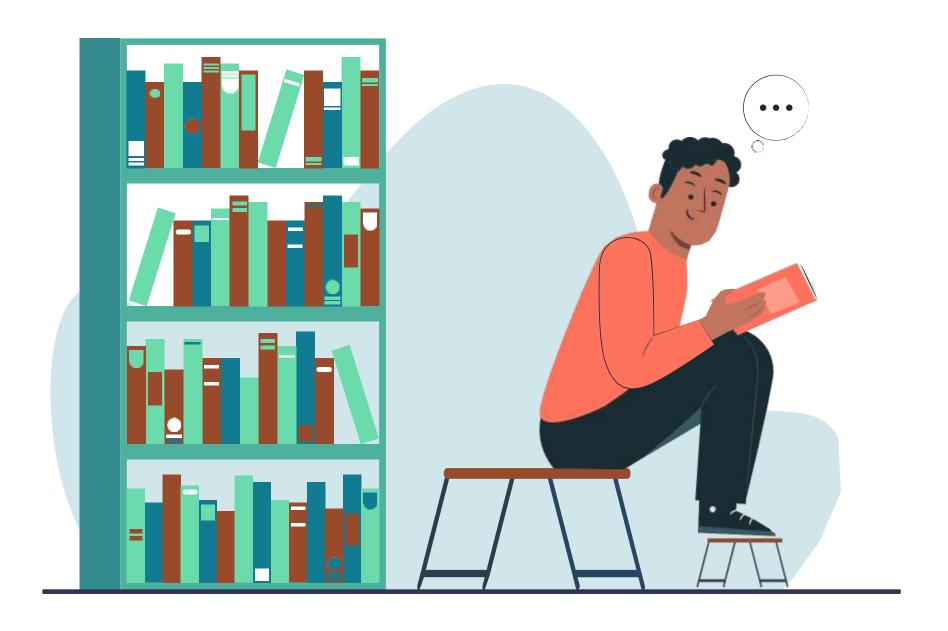


♣ All the technicality is written in detail so that when an issue arises, the user can refer to the manual, as every time OEM or technical person or subject matter expert might not be available on the spot to resolve the issue.



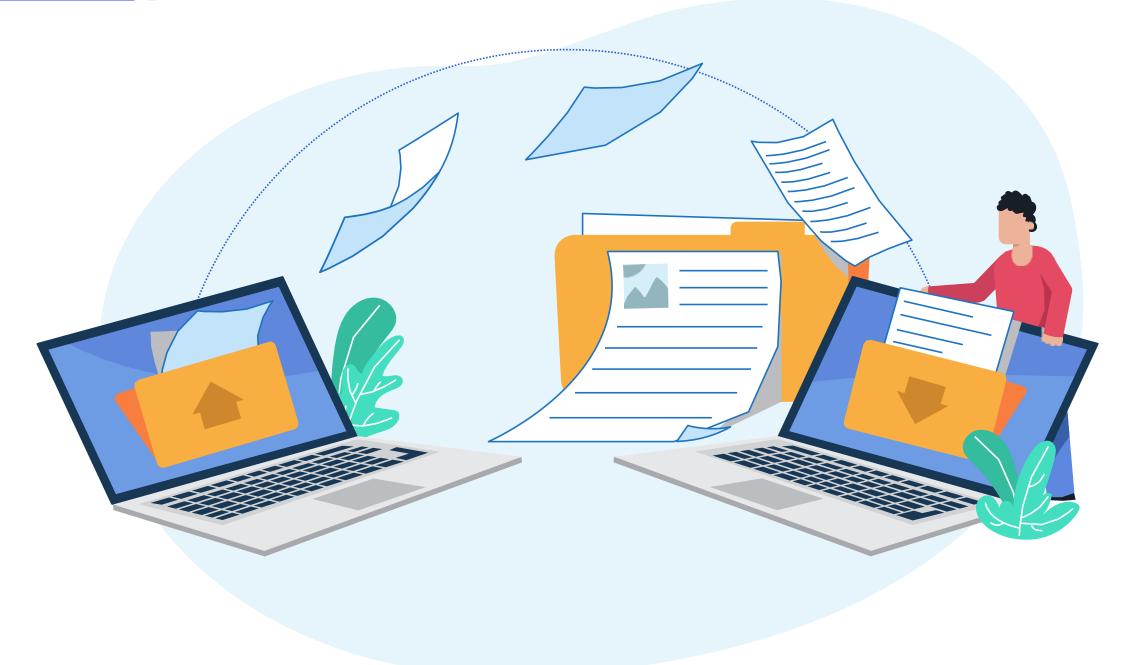


If the manual has 10 pages users can refer easily.



❖ But any system used by the defence will have multiple manuals and thousands of page counts and many times a user has to cross-refer between manuals, Intra-manual and Inter-manual to resolve the issue.

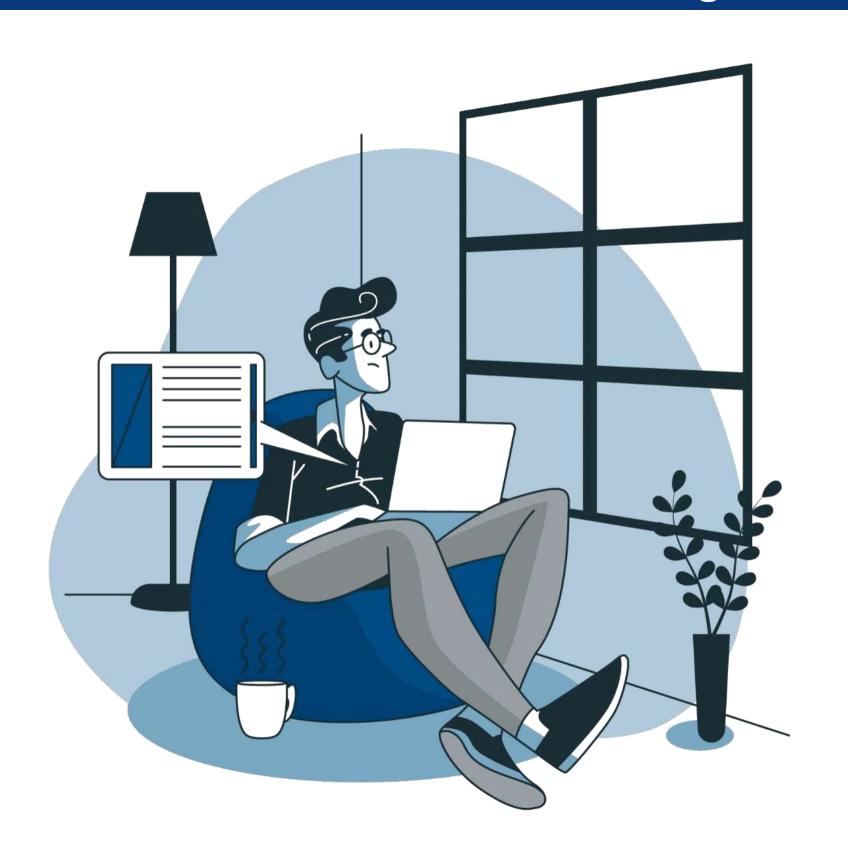




Referring to 10- 15 hard-copy or even soft-copy books simultaneously will be difficult and time-consuming.



Using IETM software, users can solve in a single click and seconds.





#### Levels of IETM



Any PDF file or scanned file





- 2

PDF file with hyperlinks from the table of contents to the body, cross referring etc





Level - 3

is an HTML application. More hyperlinks, simple search, a content tree having a login screen with a hardcoded username and password. This IETM can be delivered in the format of an executable file so that Windows can easily open it. It can be opened from DVD/CD also. All the content is hardcoded and NO database is used





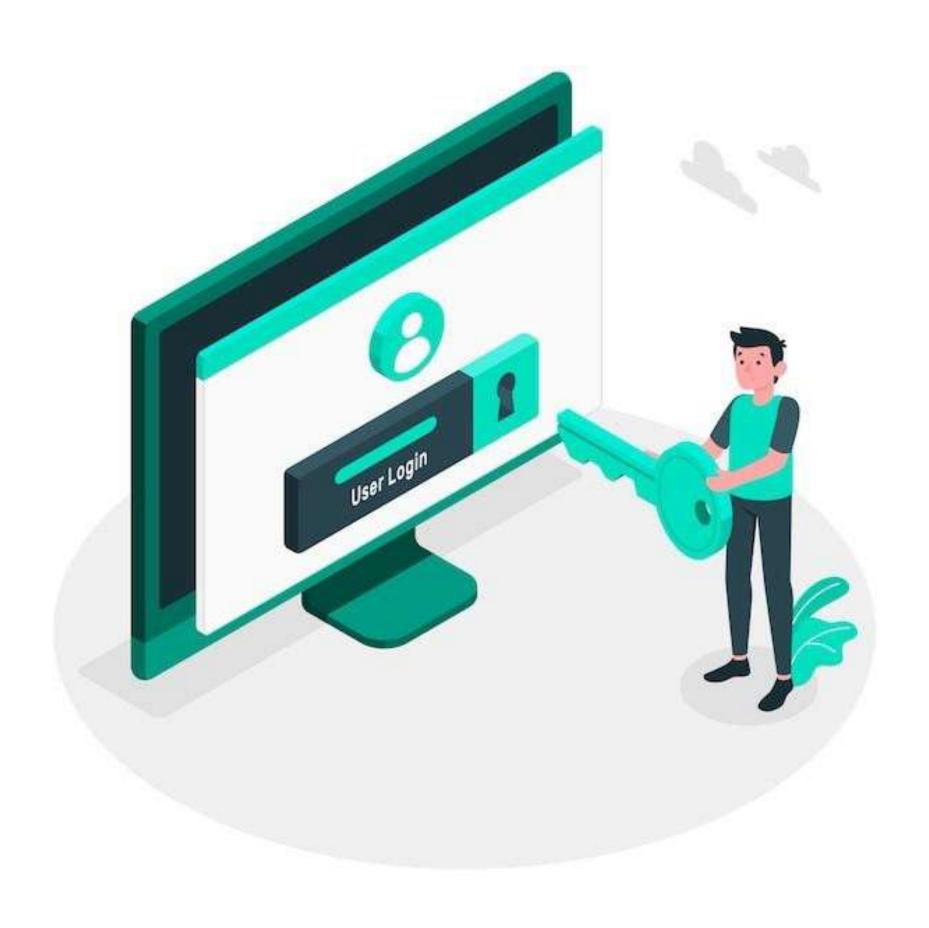
Level - 4

It is advanced Software which uses a database and is bundled with a lot of features to interact with users.



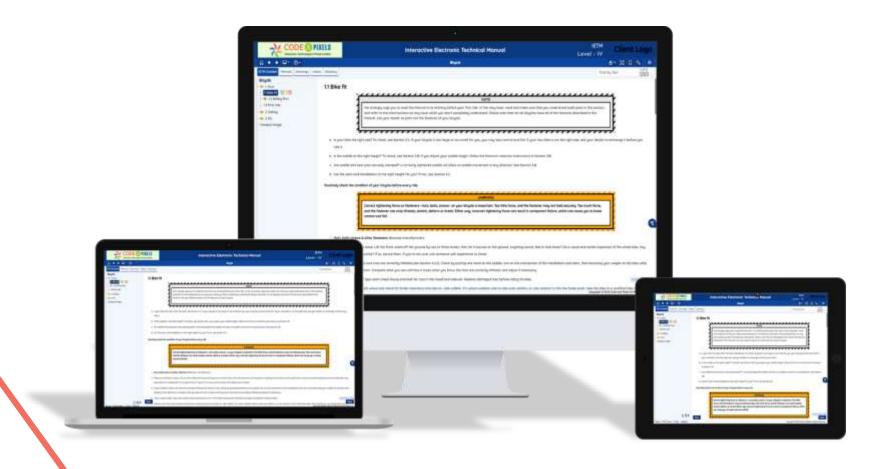
Since 2018, Level 4 is being asked to supply by Indian Defense





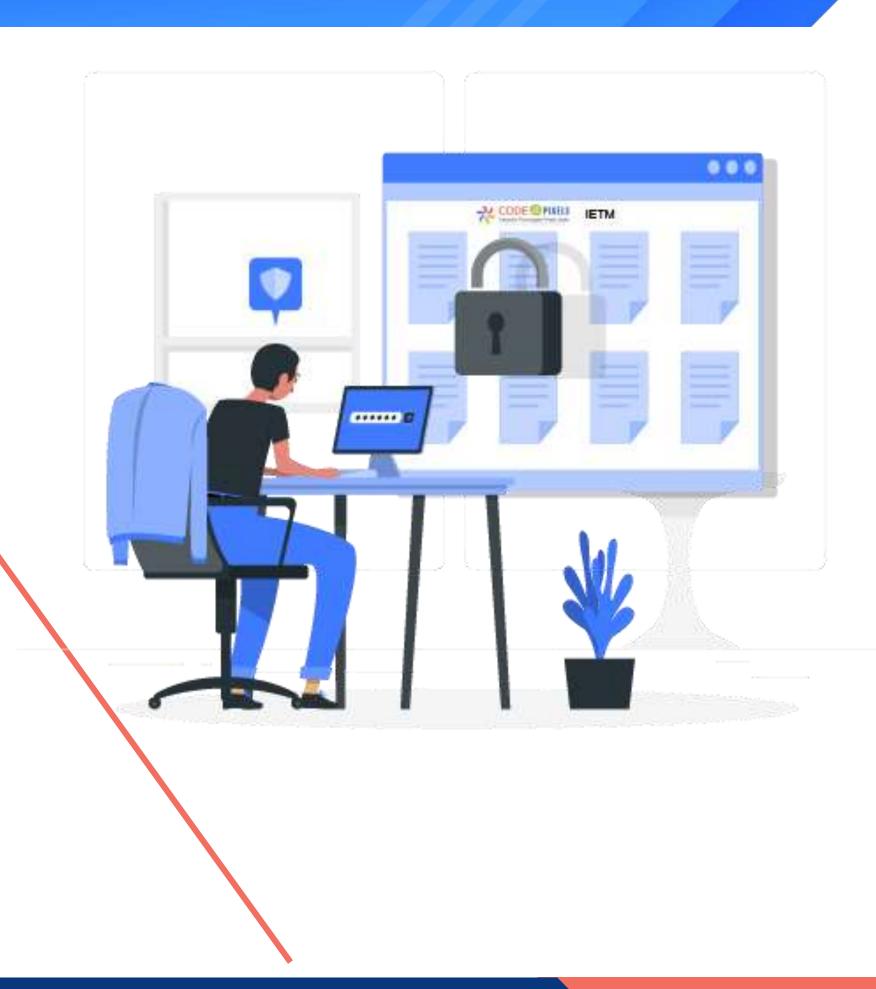


- ❖ IETM Level 4 is a web-based application like our bank software or any other web application.
- The graphic user interface will be provided to use IETM through which users can interact and get the desired data.



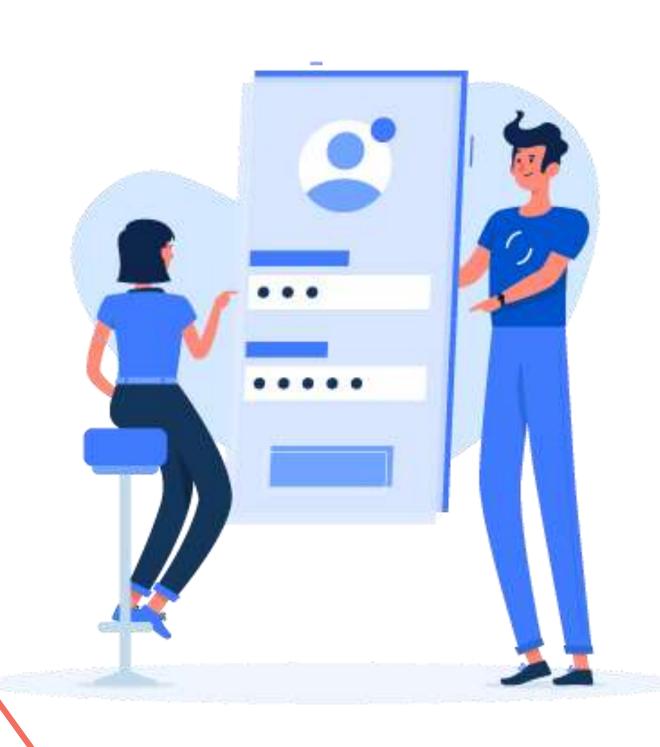


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- The graphic user interface will be provided to use IETM through which users can interact and get the desired data.
- Like all other standard software, Unauthorized users cannot access the IETM.
- IETM is Login login-based application. Only users having valid Login credentials can access the software.





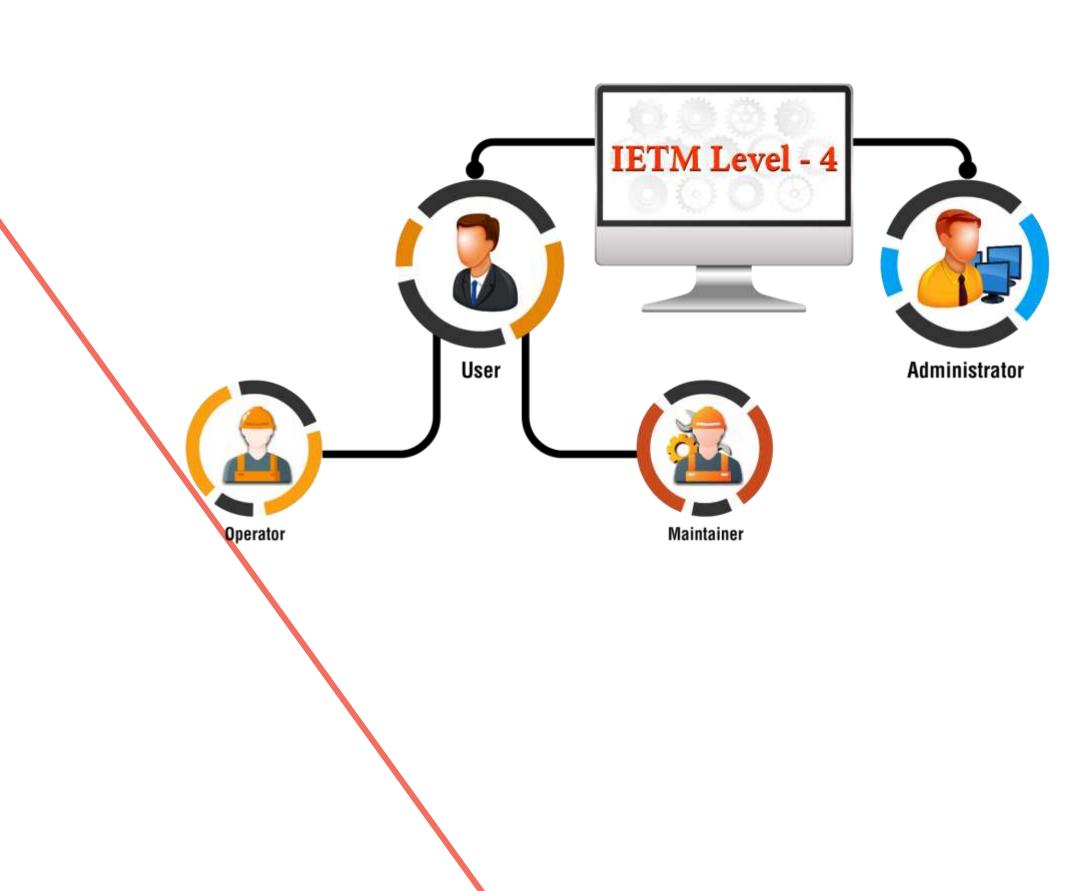
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- Like all other standard software, Unauthorized users cannot access the IETM.
- IETM is Login login-based application. Only users having valid Login credentials can access the software.
- Based on the user log credentials data will be provided to the user.
  IETM has 2 types of users (Maintainer Operator) and one Administrator





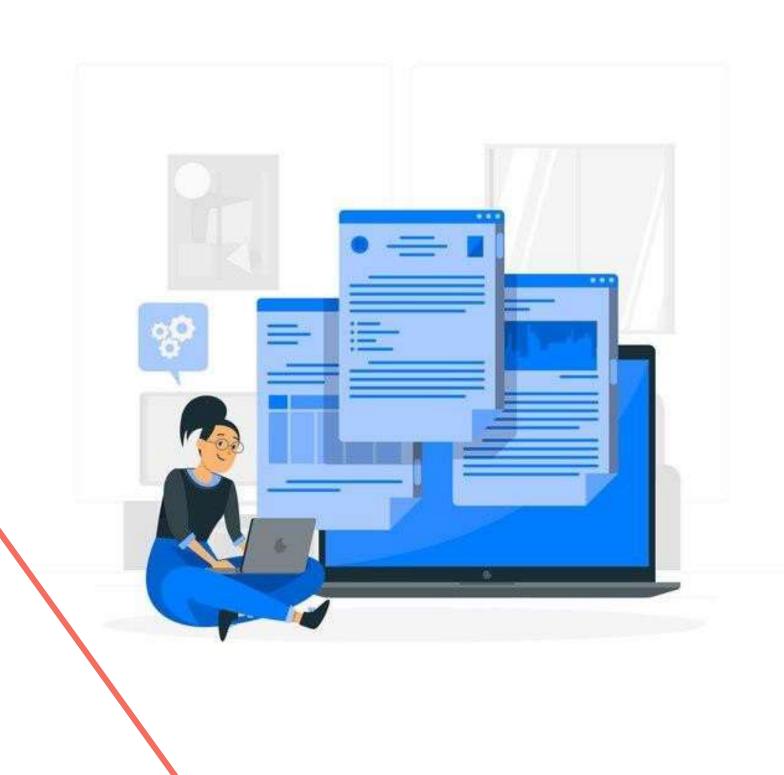
#### IETM - Level 4

If the operator logs in, the user gets all the content related to operator use, similarly if the maintainer logs in only maintenancerelated content is visible for that user.





- If the operator logs in, the user gets all the content related to operator use, similarly if the maintainer logs in only maintenancerelated content is visible for that user.
- Ideally, all the content is available for both users, because the purpose of the IETM is to refer to the manual to fix the issue.



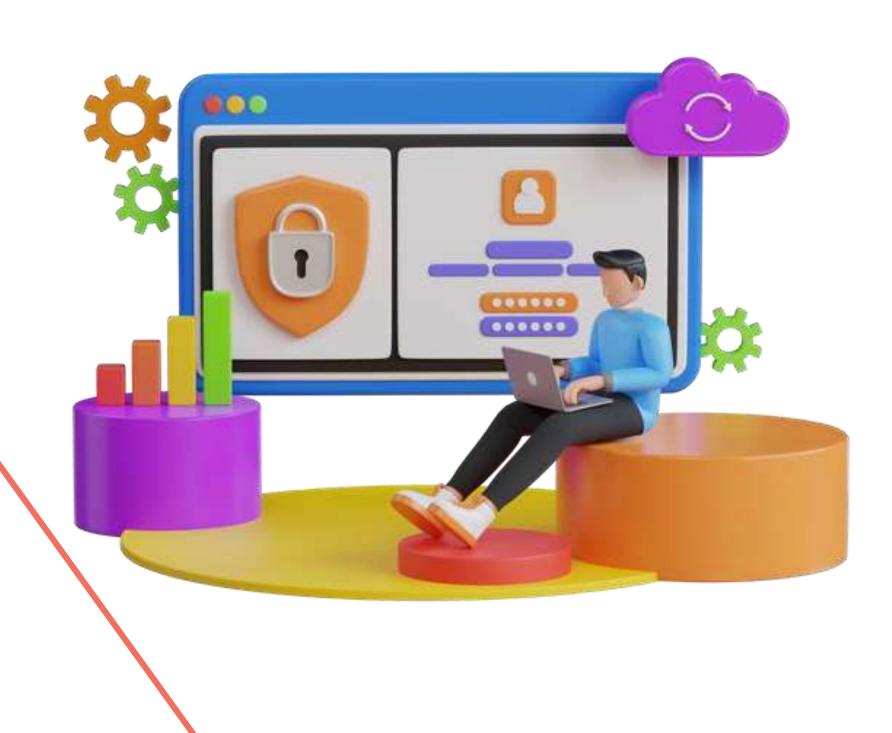


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- Administrators can create users who can see the user's navigation & log-in history and interact with the users using user dashboards through Annotations.





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- Ideally, all the content is available for both users, because the purpose of the IETM is to refer to the manual to fix the issue.
- Administrators can create users who can see the user's navigation & log-in history and interact with the users using user dashboards through Annotations.
- In any case, Only OEM has the right to update or modify the content. Users can only refer to the content.





#### Structure of IETM – Level 4

**PAGES** 

/IETM

Base

Data

Content

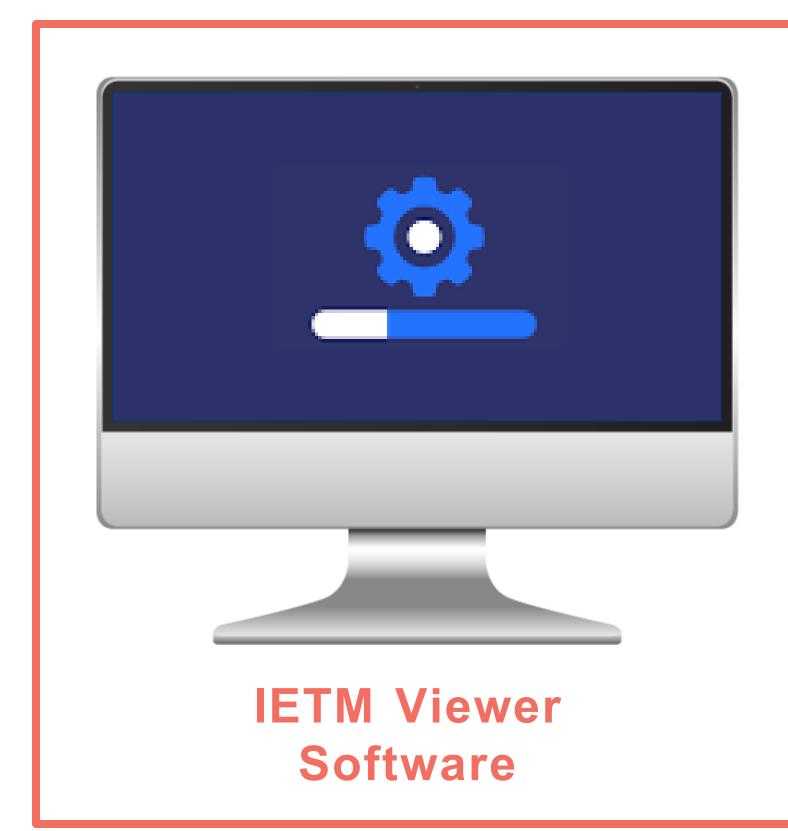
IETM Development Team

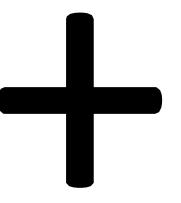
All Documents will be converted into IETM Database Step-1 Building a Table of Contents in the framework Copying IETM content in the framework Step-2 All the text will be stored in a database Linkages between pages/frames Step-3



#### Structure of IETM - Level 4

#### **IETM**





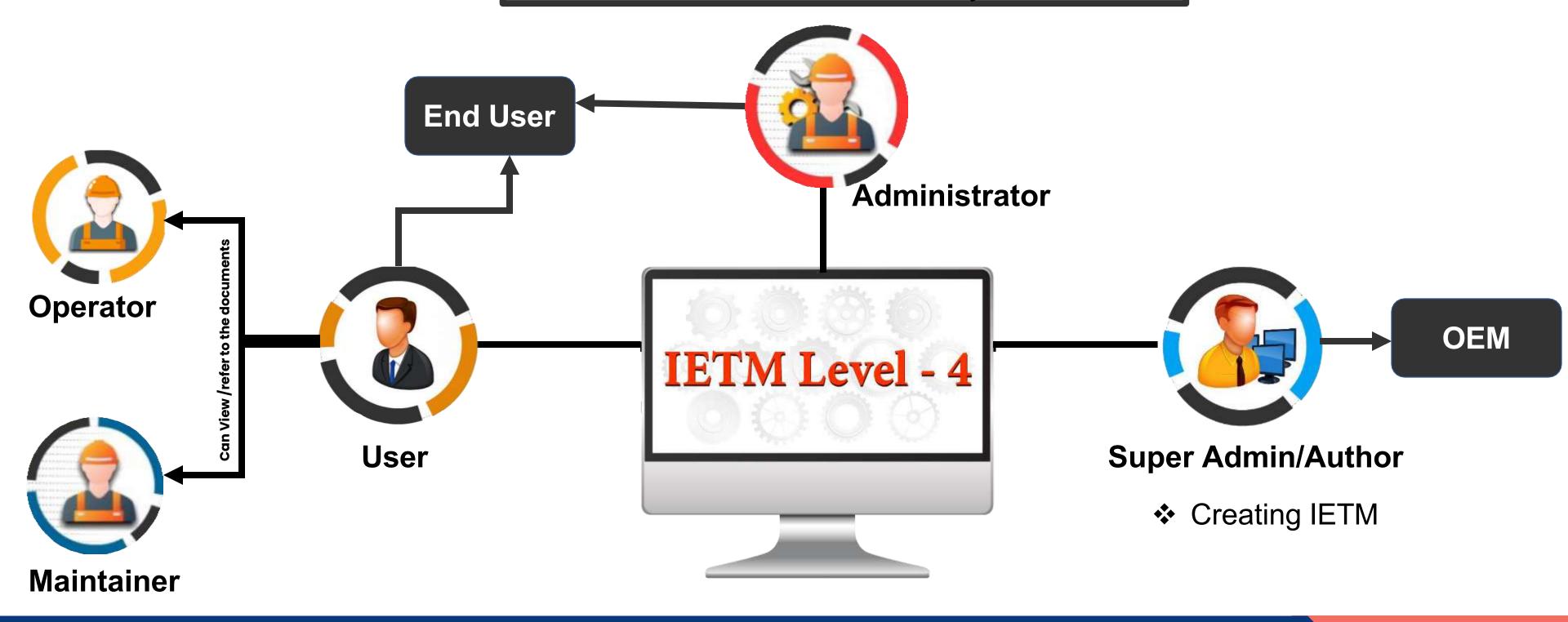


Data Base
All the Manuals & Images



#### **IETM USER TYPES**

- Can manage users and also refer documents.
- Manage means the admin can create, edit and delete users and see user activity









#### Security

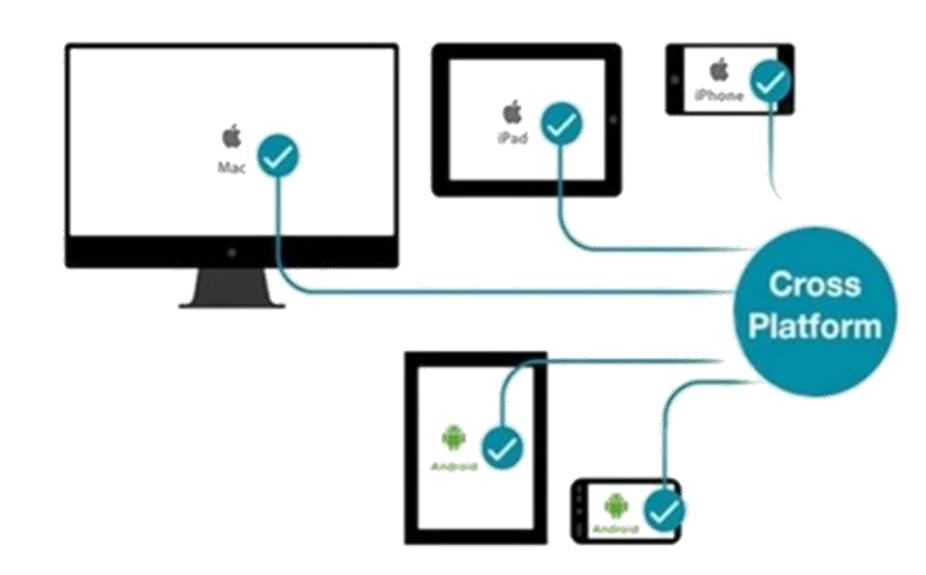


- Role based Login Control and Dynamic User access control (User, Admin)
- Dynamic User Access control to reduce the risk of unauthorized access to content data Role-based



#### **Cross Platform Compatibility & Deployment**

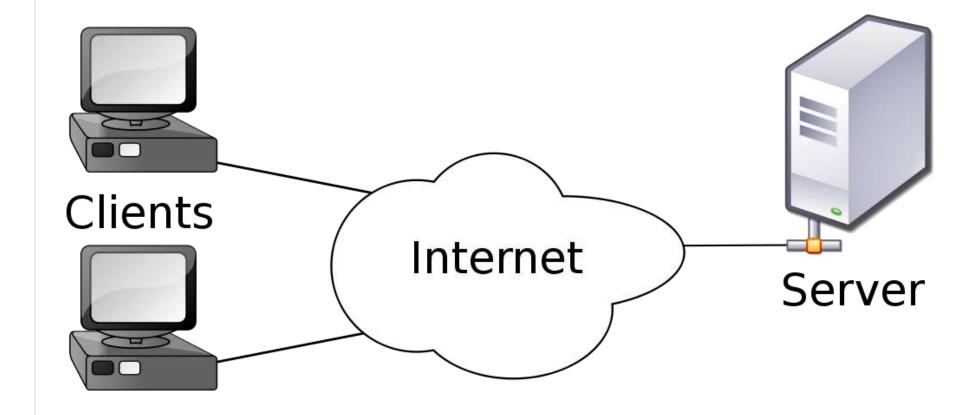
- Our IETM Frame work is cross platform compatible
- Code and Pixels Frame works is compatible for multiple devices i.e. Lap tops, PCs, Tablets etc.





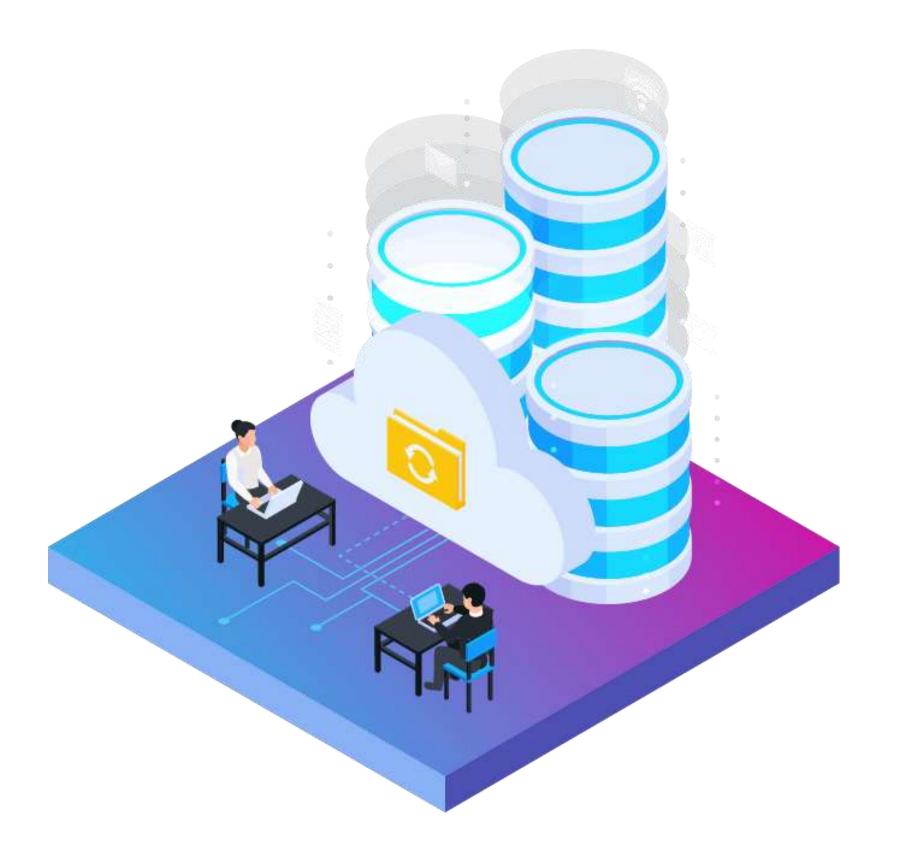
#### **Cross Platform Compatibility & Deployment**

- Our IETM Frame work is cross platform compatible
- Code and Pixels Frame works is compatible for multiple devices i.e. Lap tops, PCs, Tablets etc.
- IETM can be operated in Windows Operating systems and also LINUX OS
- IETM is a browser-based application
- No 3rd party tools are required to install IETM in the client machine
- It can be installed in the Client server Environment and also in a single System /standalone system





#### **Performance**



- In Class-IV IETM the data to be stored in a relational database, obtaining benefits of data integrity and removal of data redundancy.
- As the content (Images, Text, tables, Hyperlinks, Hot spots) is saved in the database, hence content will be loaded in a fraction of a second from the server.
- Content completely hyperlinked is mapped directly to relations in the database schema.
- Content will be driven dynamically from the Database based

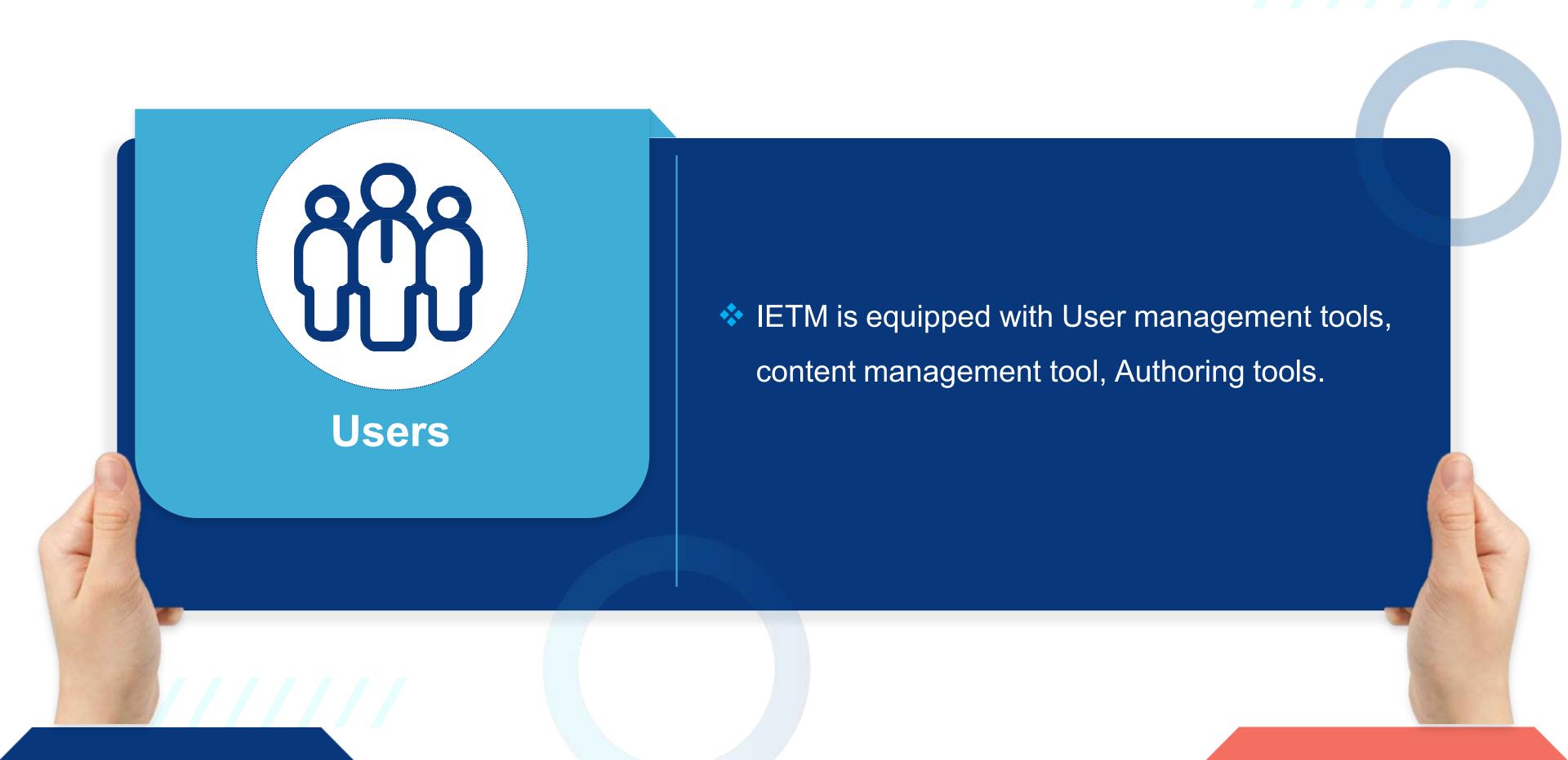


#### Performance

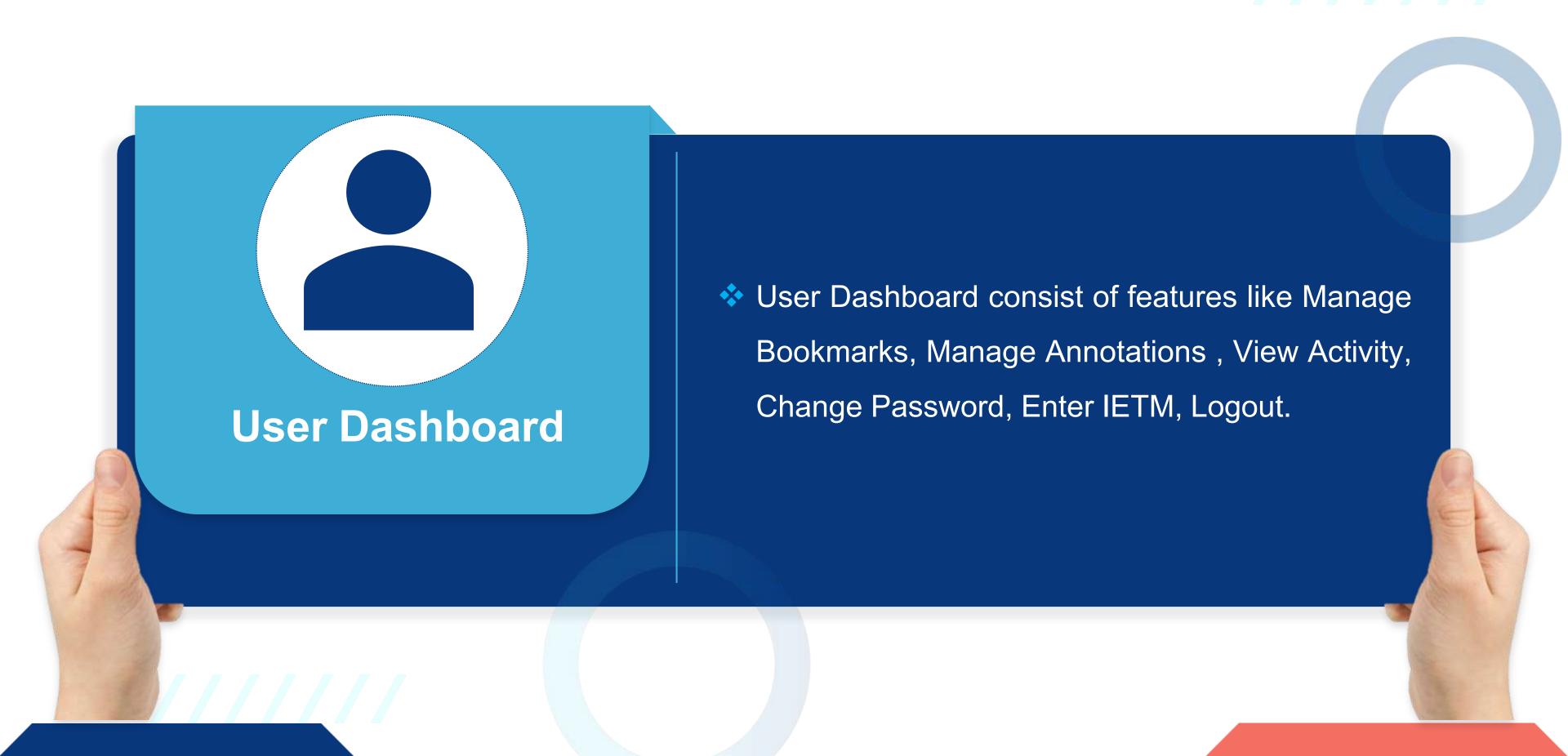


- Dynamic data access from Relational database and reduced use of static pages
- Content data derived in textual, graphical, audio or video formats in a relational database which is composed of logically connected but randomly accessible IETM data elements







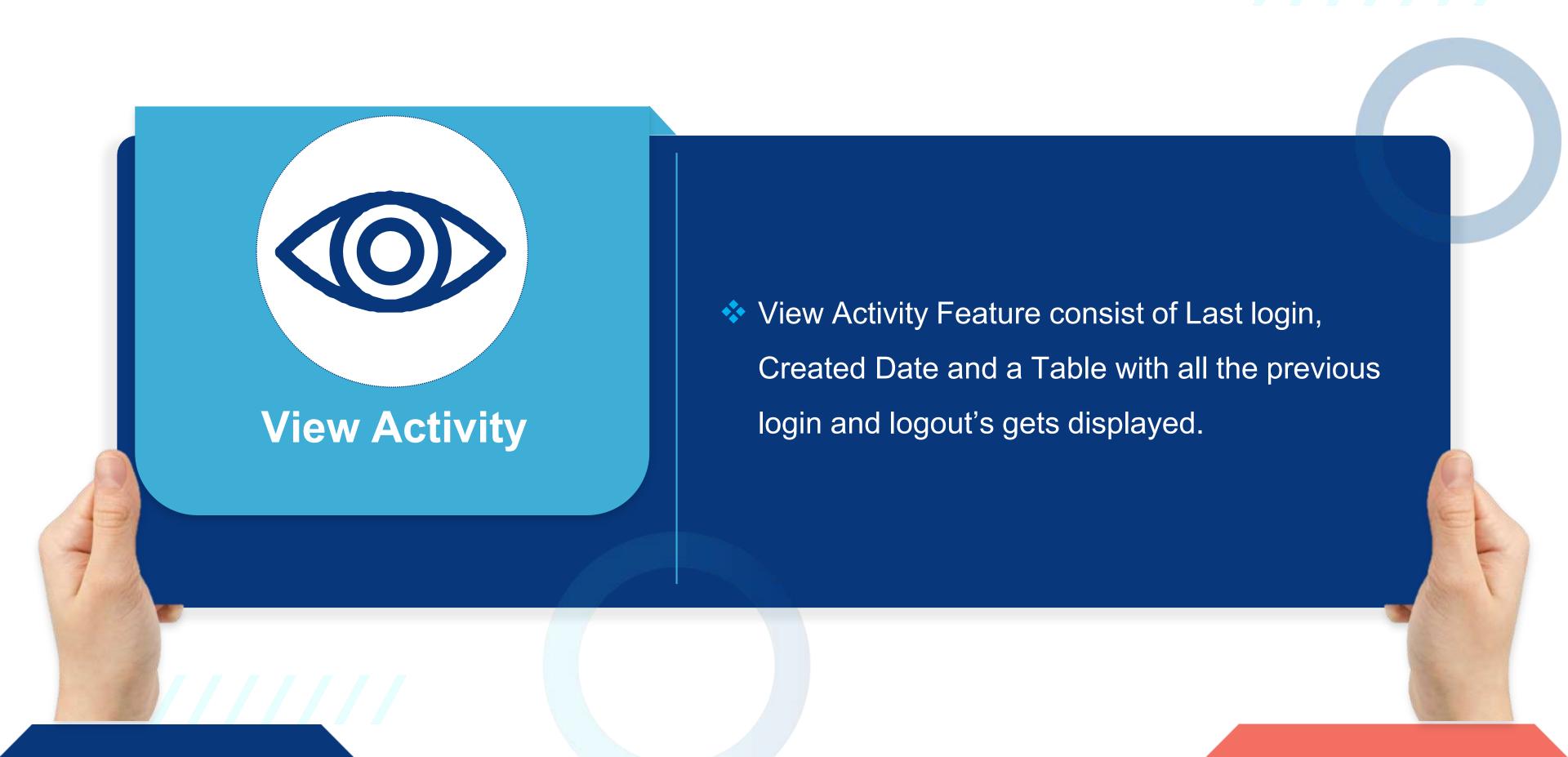




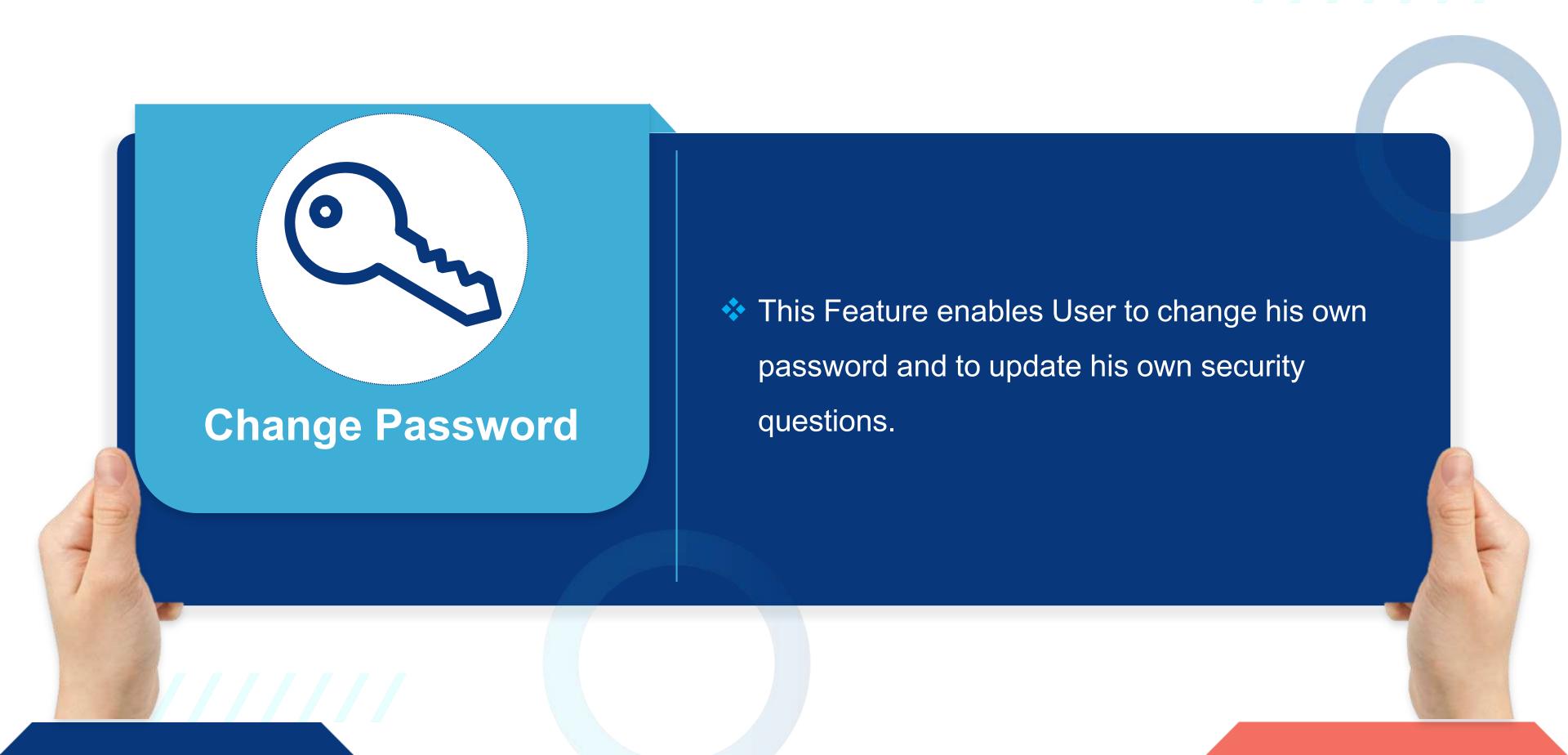


- Admin can control the documents access based on user profile. I.e. For Operator user, only manuals related to operator can be given access and for maintainer user only Maintenance related documents can be give access.
- Admin can see user login history and user
  Annotations and feedback etc.

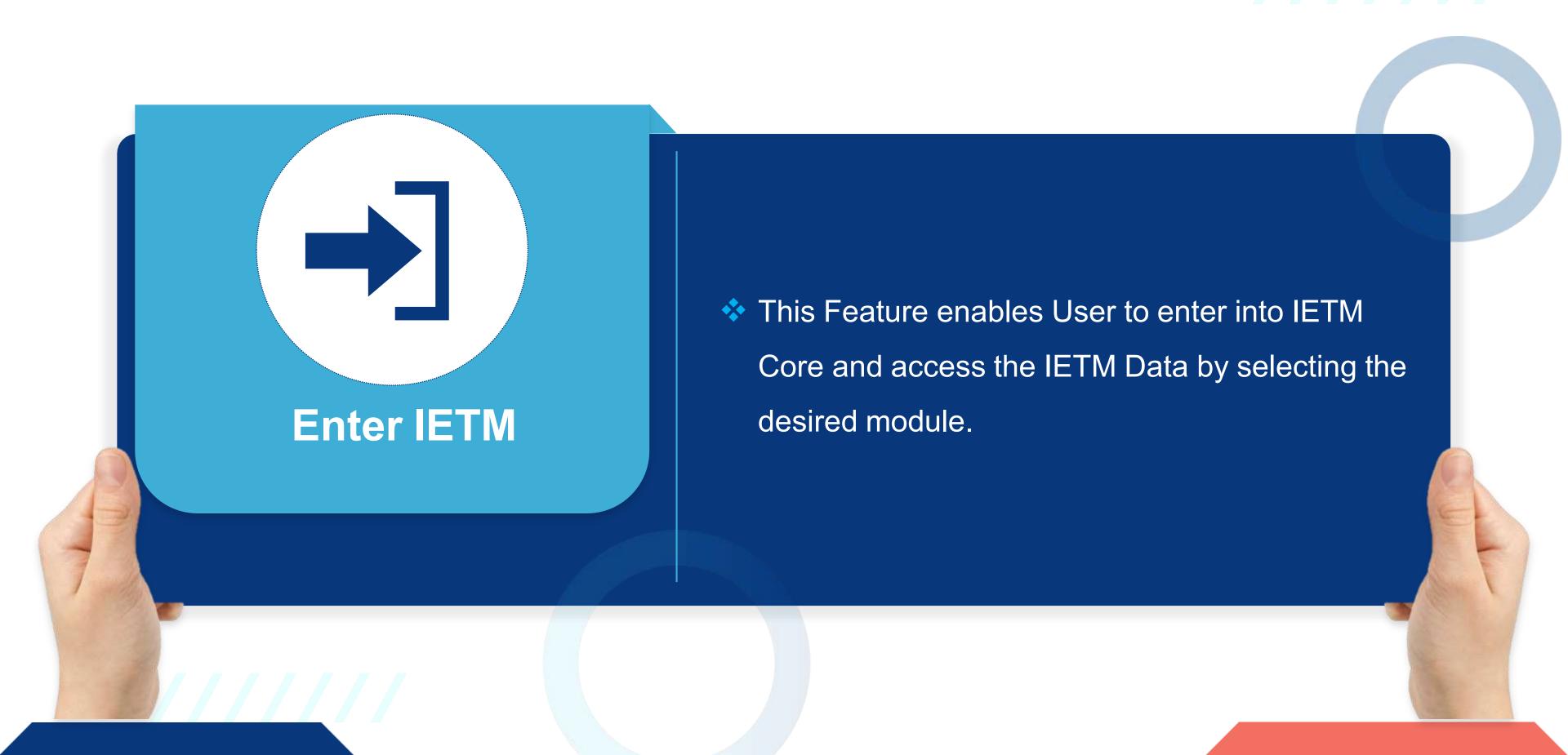
















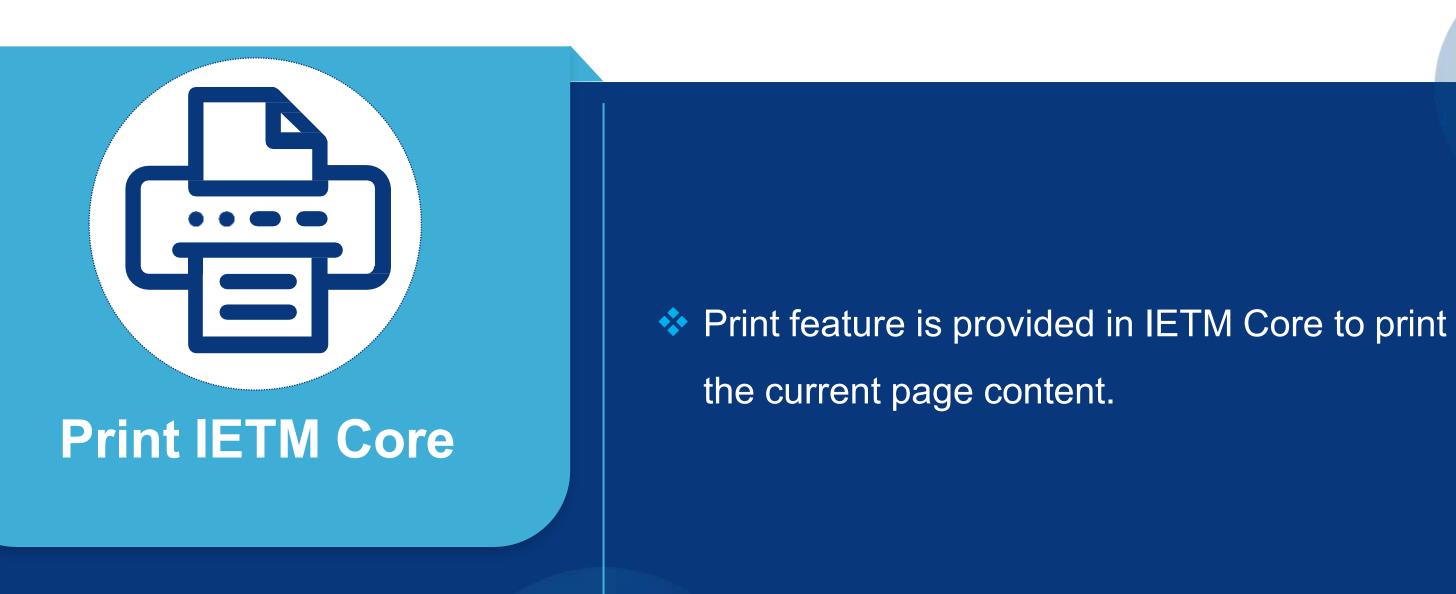
❖ IETM core consist of IETM Content section on the Right and Tree Menu on the Left for navigation of content, IETM Core consist of Global Search, Local Search, Print, Annotation, Bookmark, Help and Select Module, History Navigation and Home options.





Annotations are displayed by an icon at the Top Right beside the Global Search with Annotations Count of particular page. User can select the text with mouse and Add Annotation option appears to users to add new annotation in the content page.

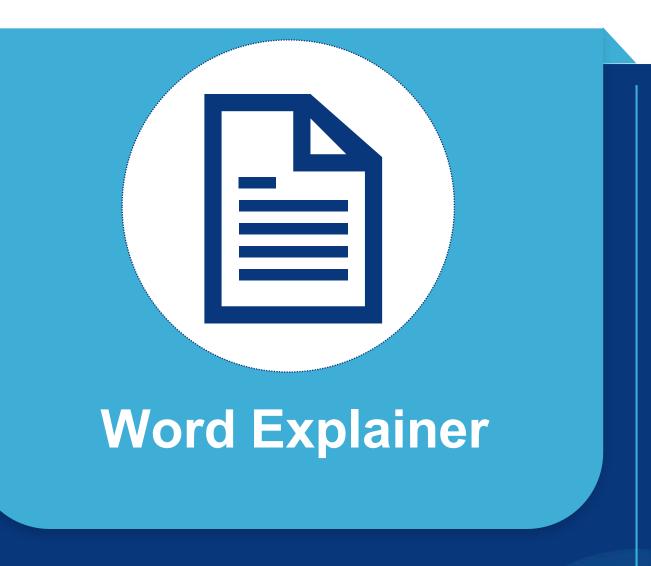






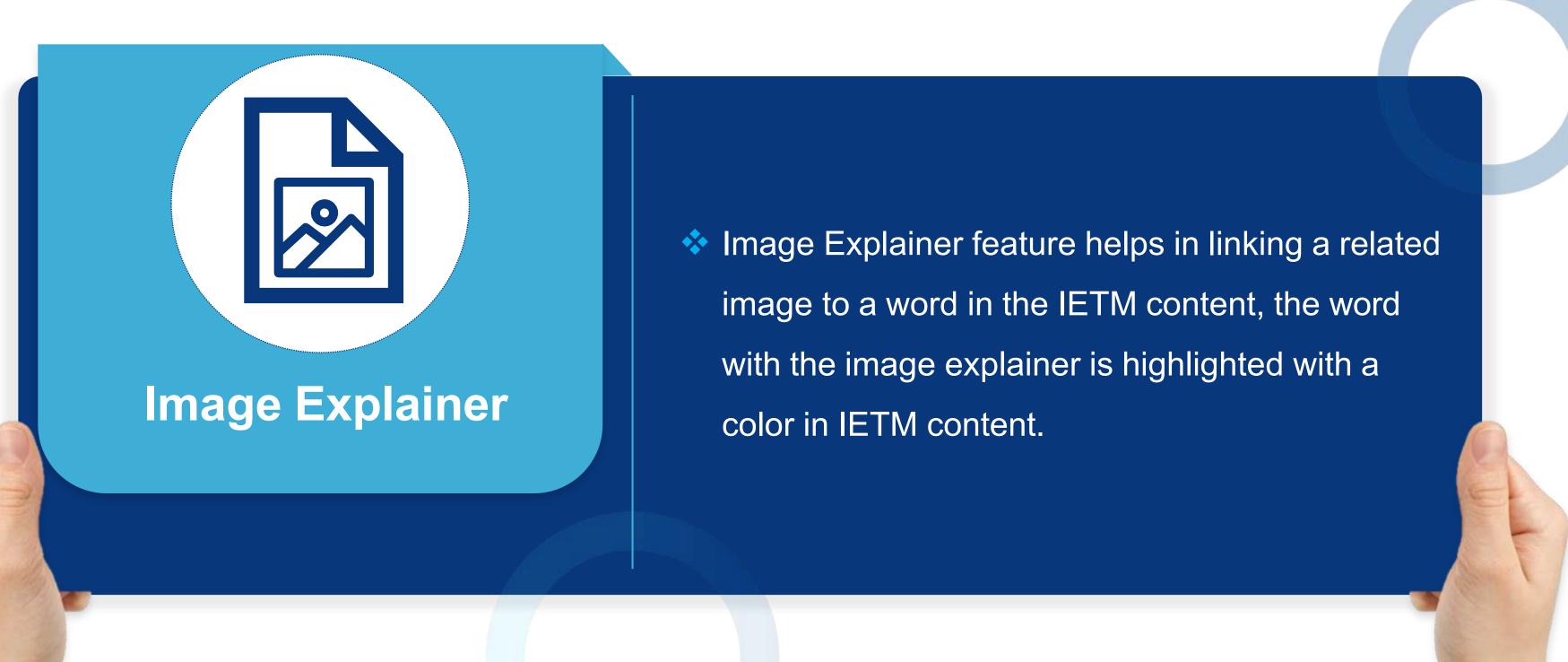




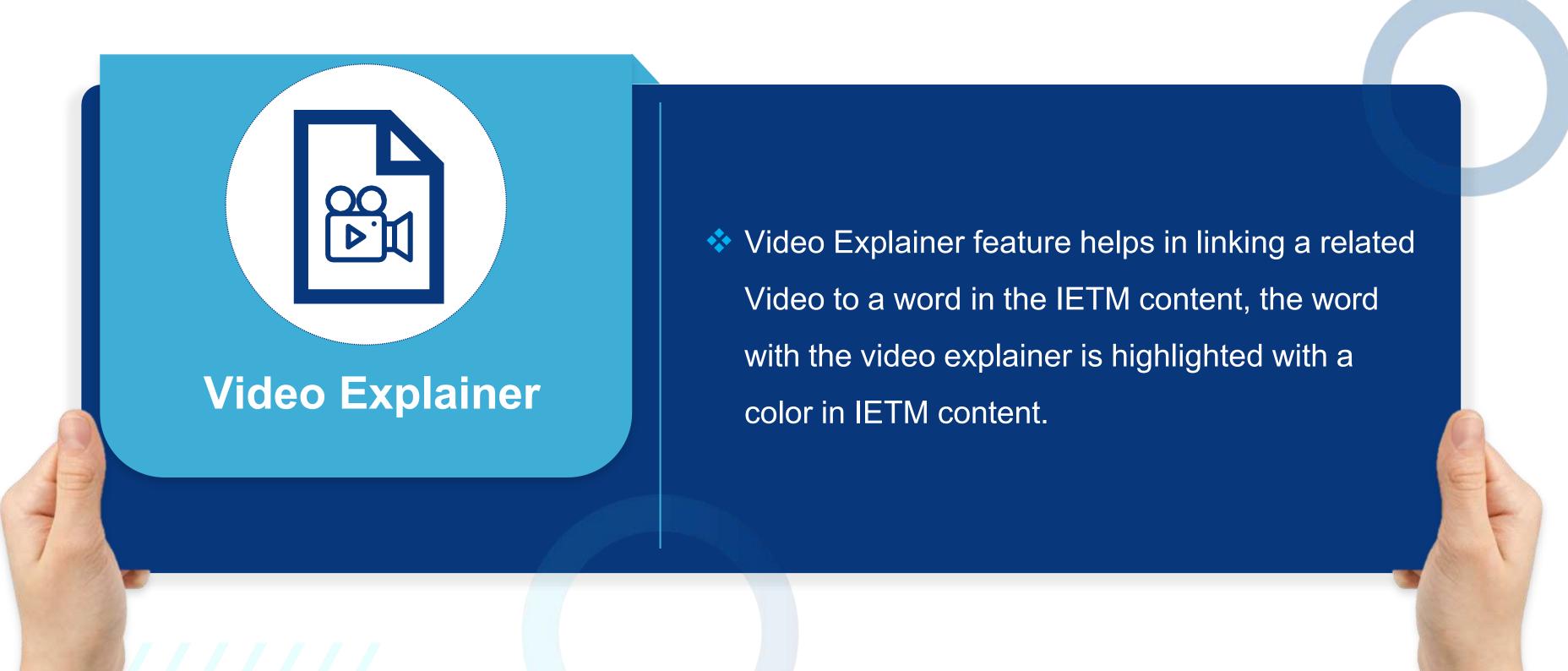


Word explainer feature helps in providing a Description/Explanation to a word by clicking on the word and is highlighted with a color in IETM Content













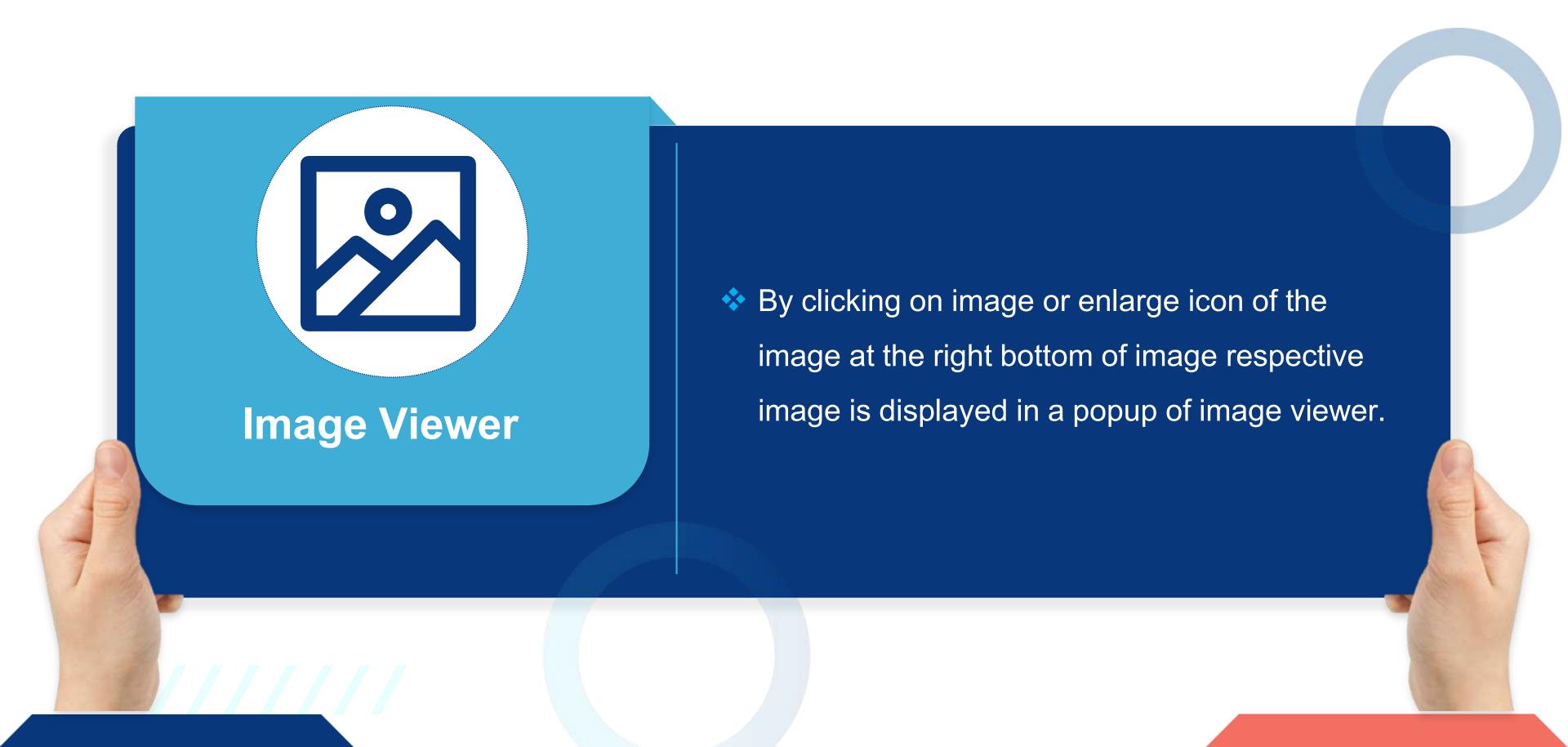
Hot Spotting functionality is used to link a word to respective image/Drawing of the same page, works with mouse hovering or selecting text or part of a image by which respective drawing or image will highlighted.



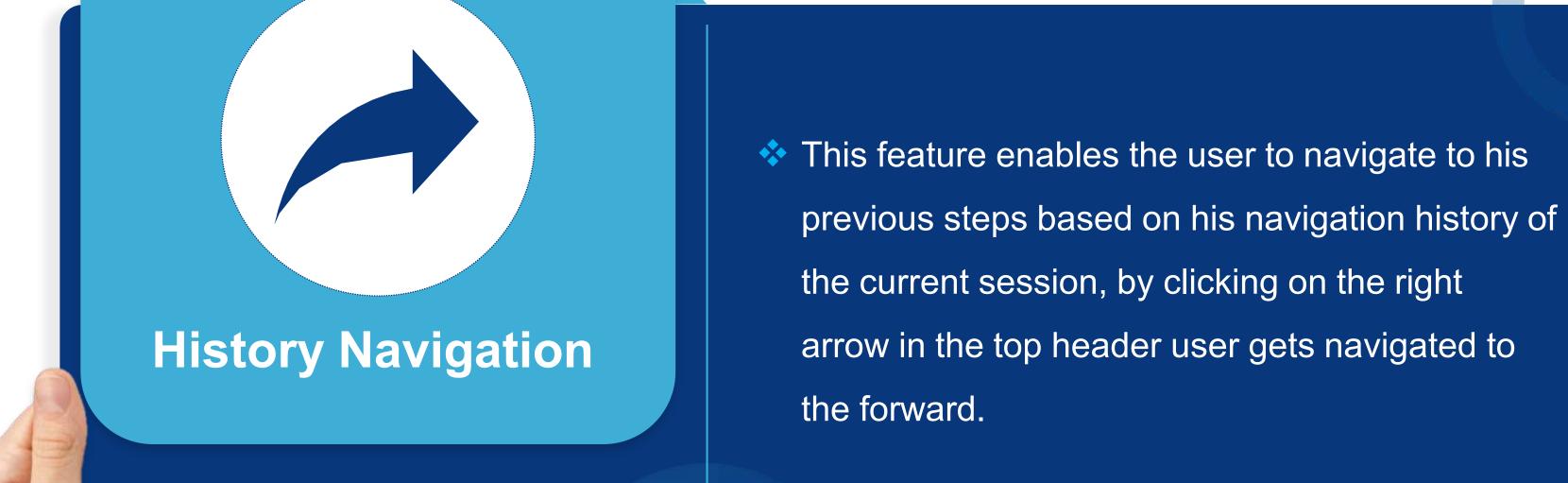


Hyperlinking feature enables user to navigate from one page to the other related hyperlinked page by mouse click, the hyperlinked data is highlighted with a color and underlined.







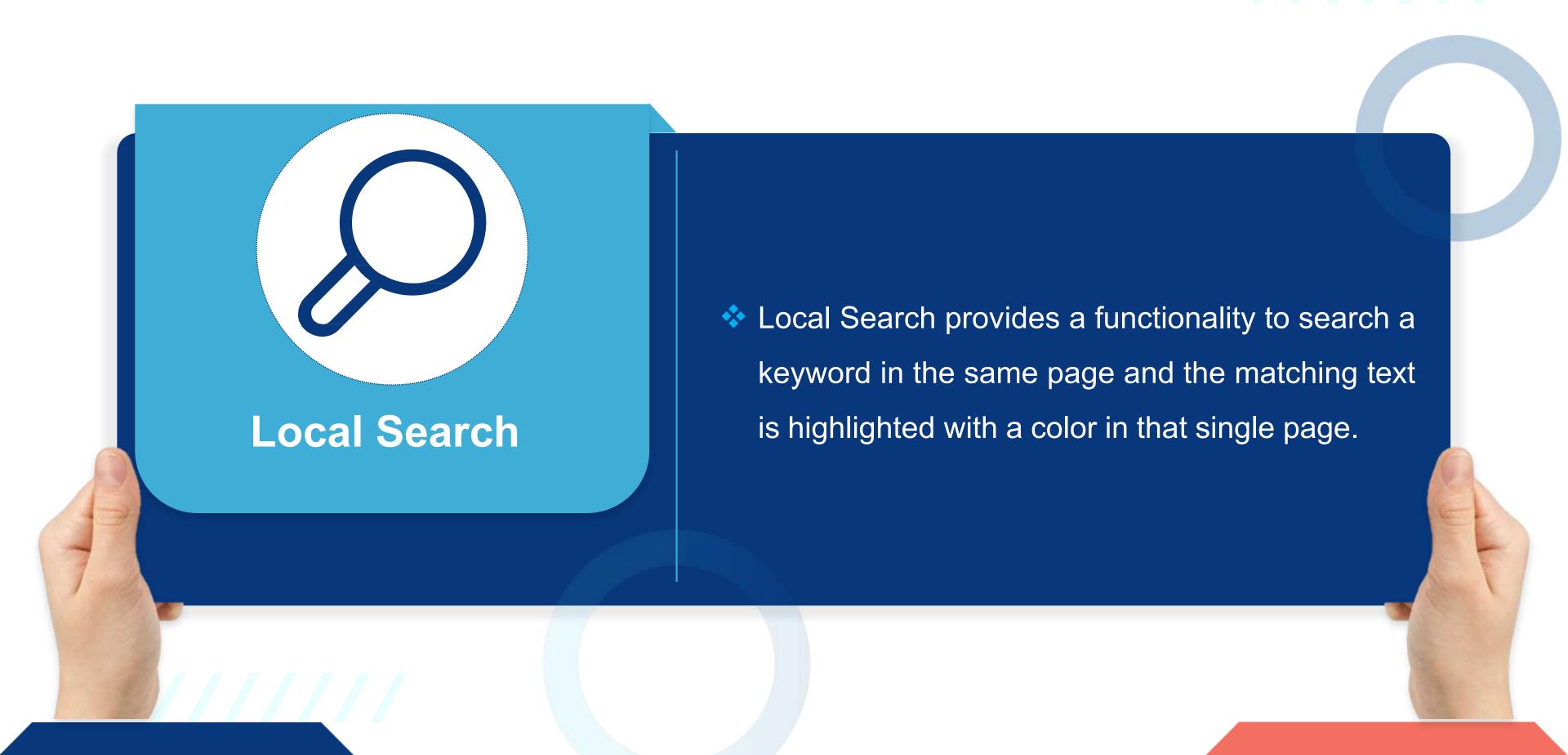






Global Search provides a functionality to search a keyword with matching page name and also content text form entire IETM Core and the results are displayed in tabular format with Page Title and Module Name. by clicking page title user gets navigated to that page.



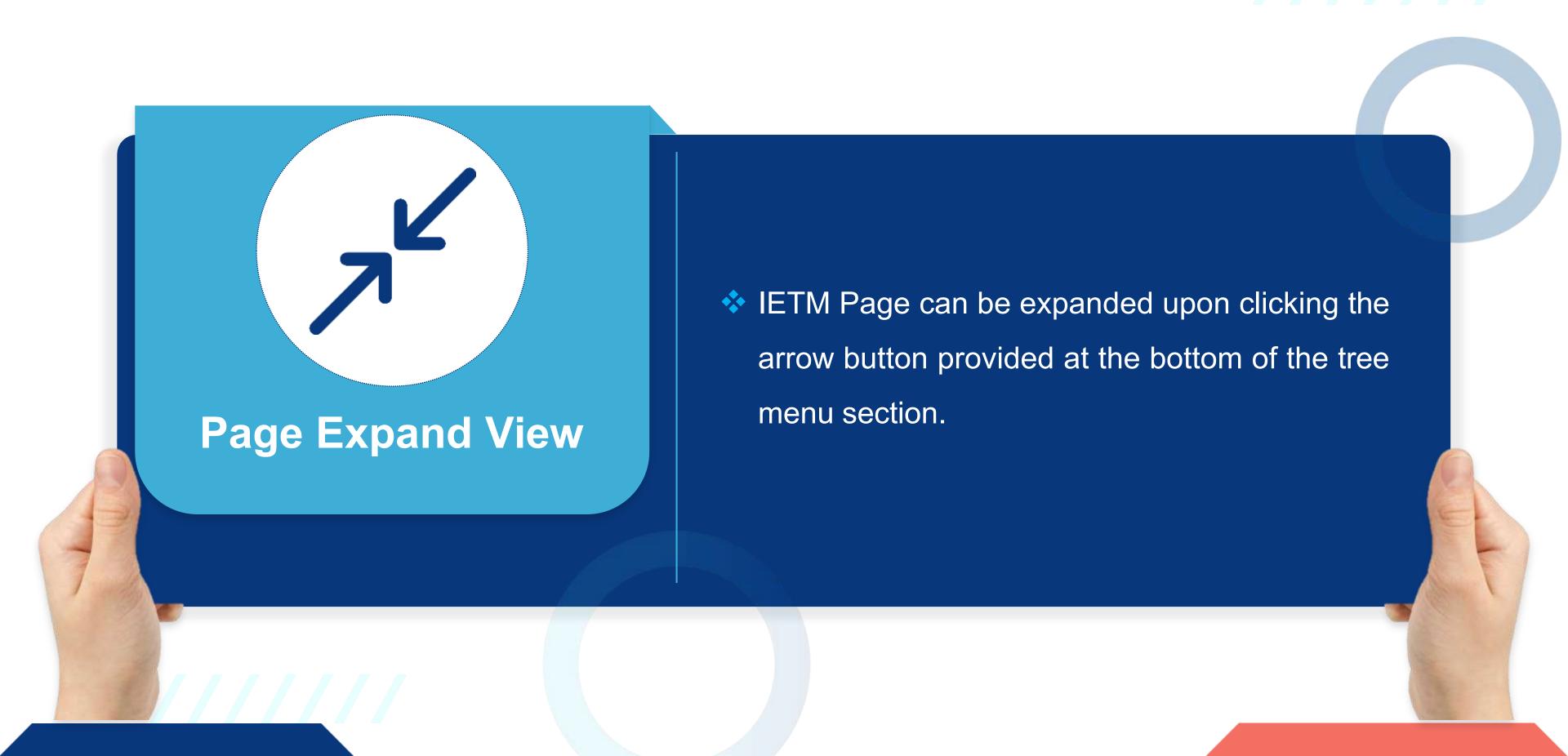






Related Content features is located at the right bottom of IETM content section. We can link the Related Pages of IETM Core, Document and Drawings which are related to this page content in this feature.



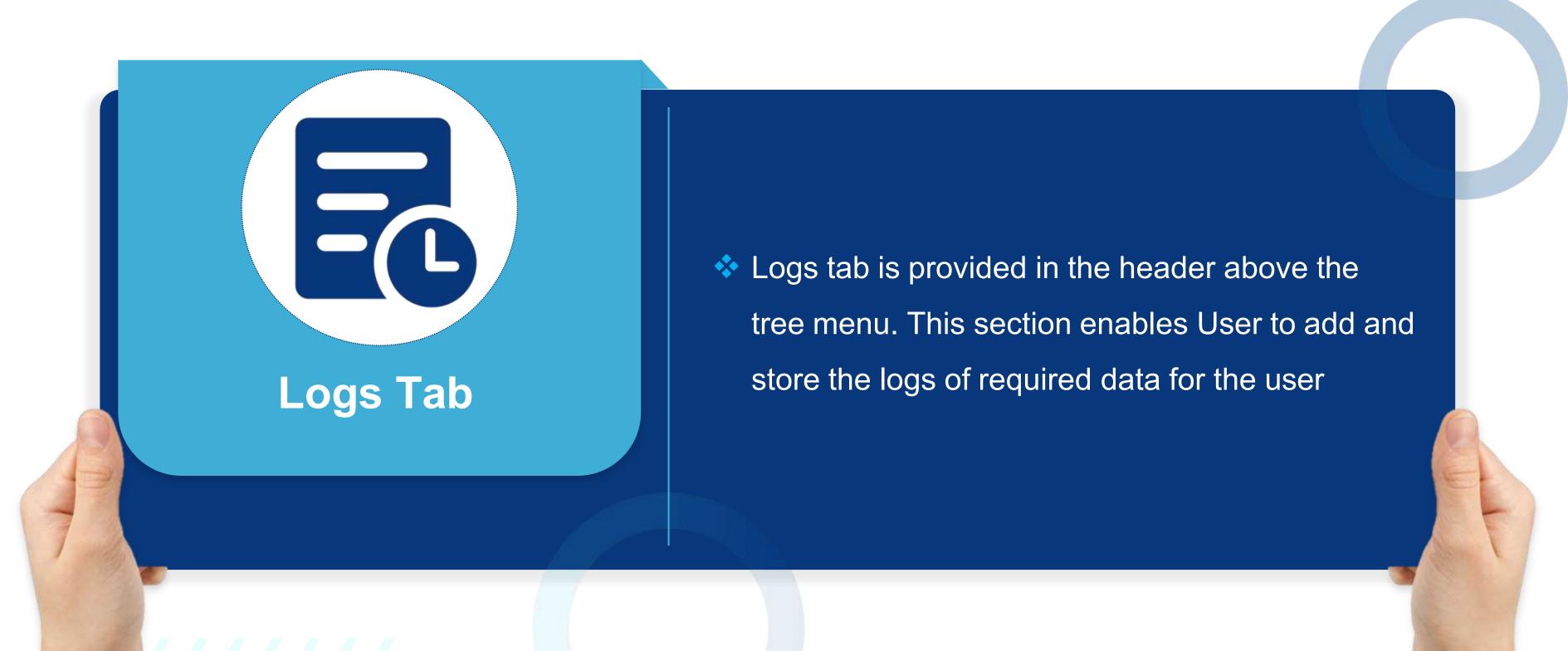






Manuals tab is provided in the header above the tree menu. All the manuals related to can be placed in this tab and can be viewed with the help of pdf viewer provided in the IETM application.



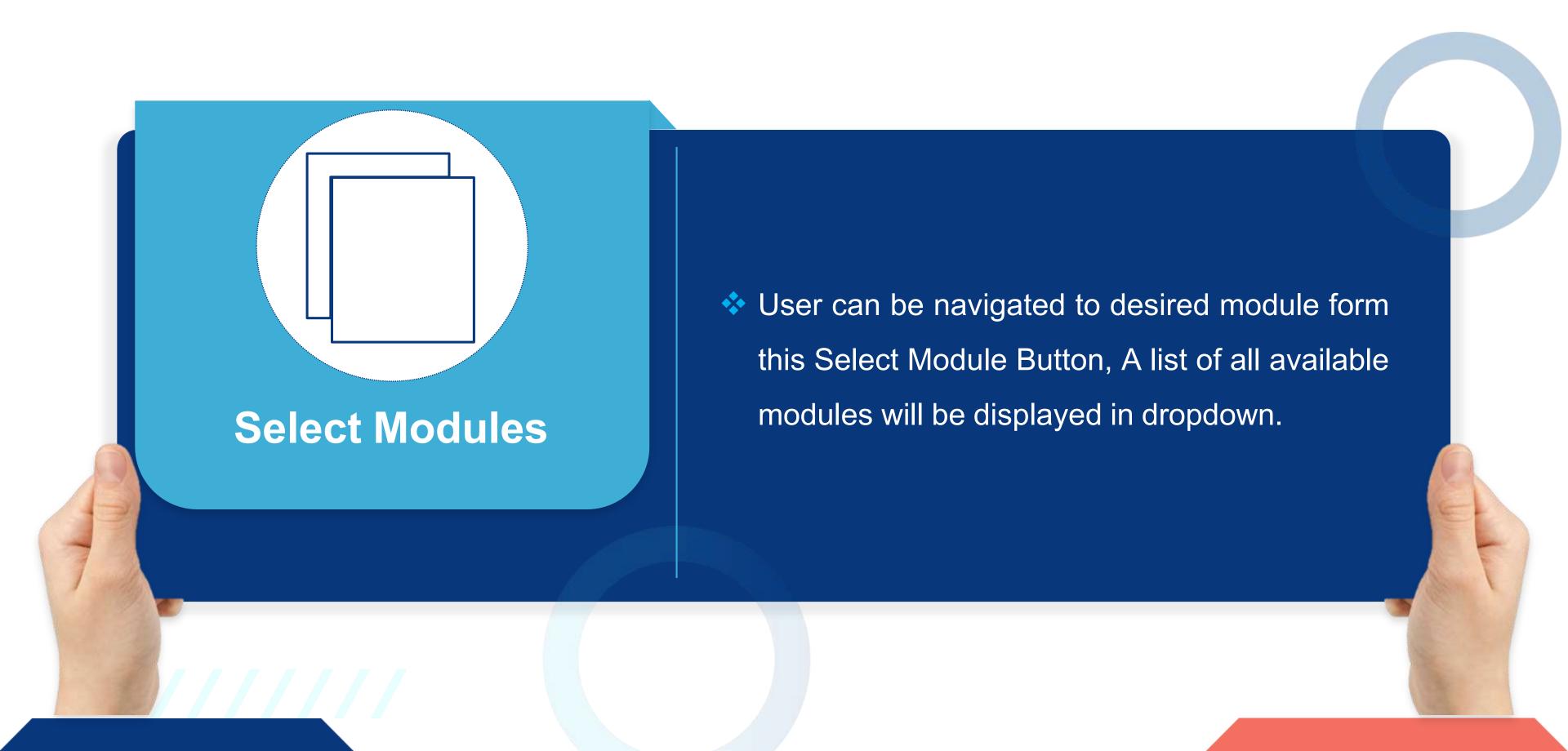




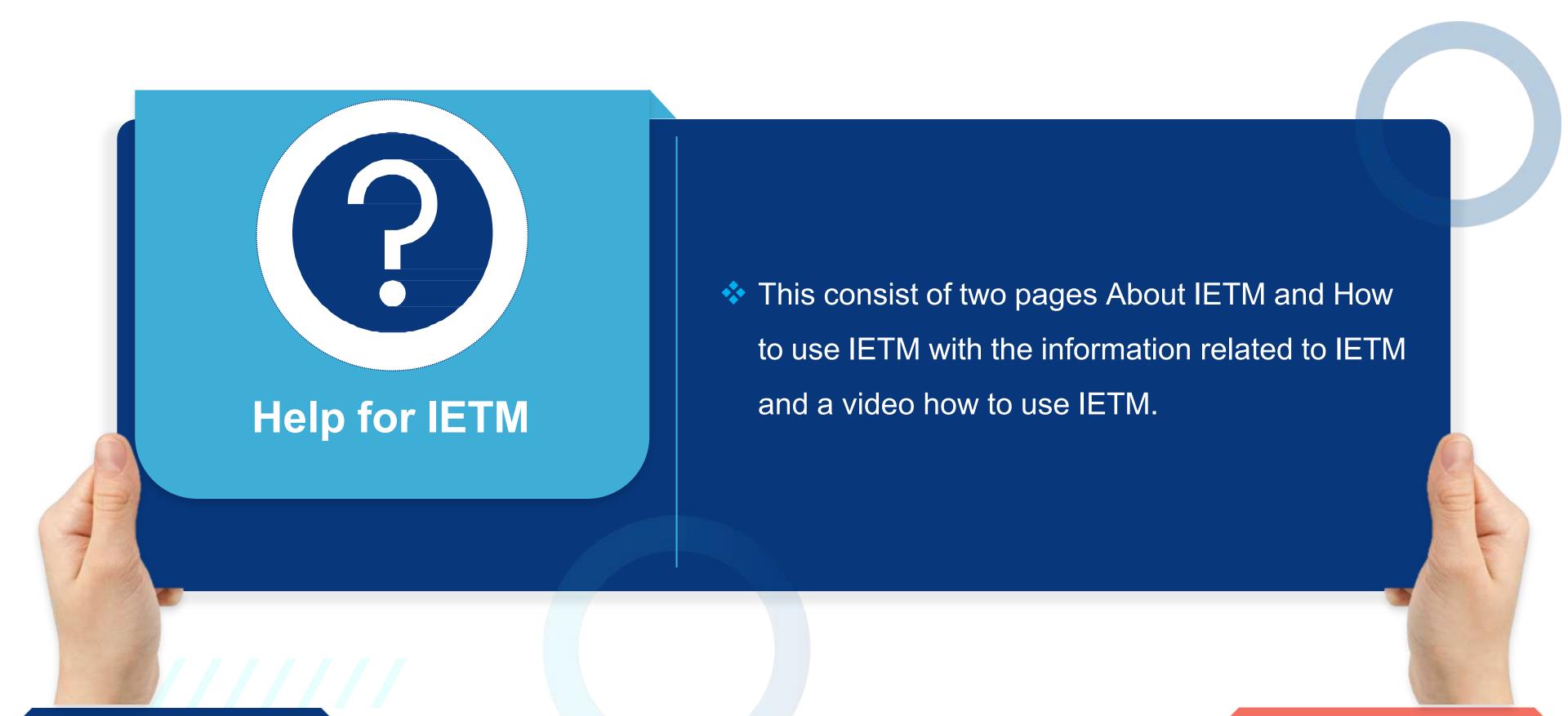


Glossary tab consist of Add, Sort, Find options with a tabular display of the glossary Related to content in IETM Core.

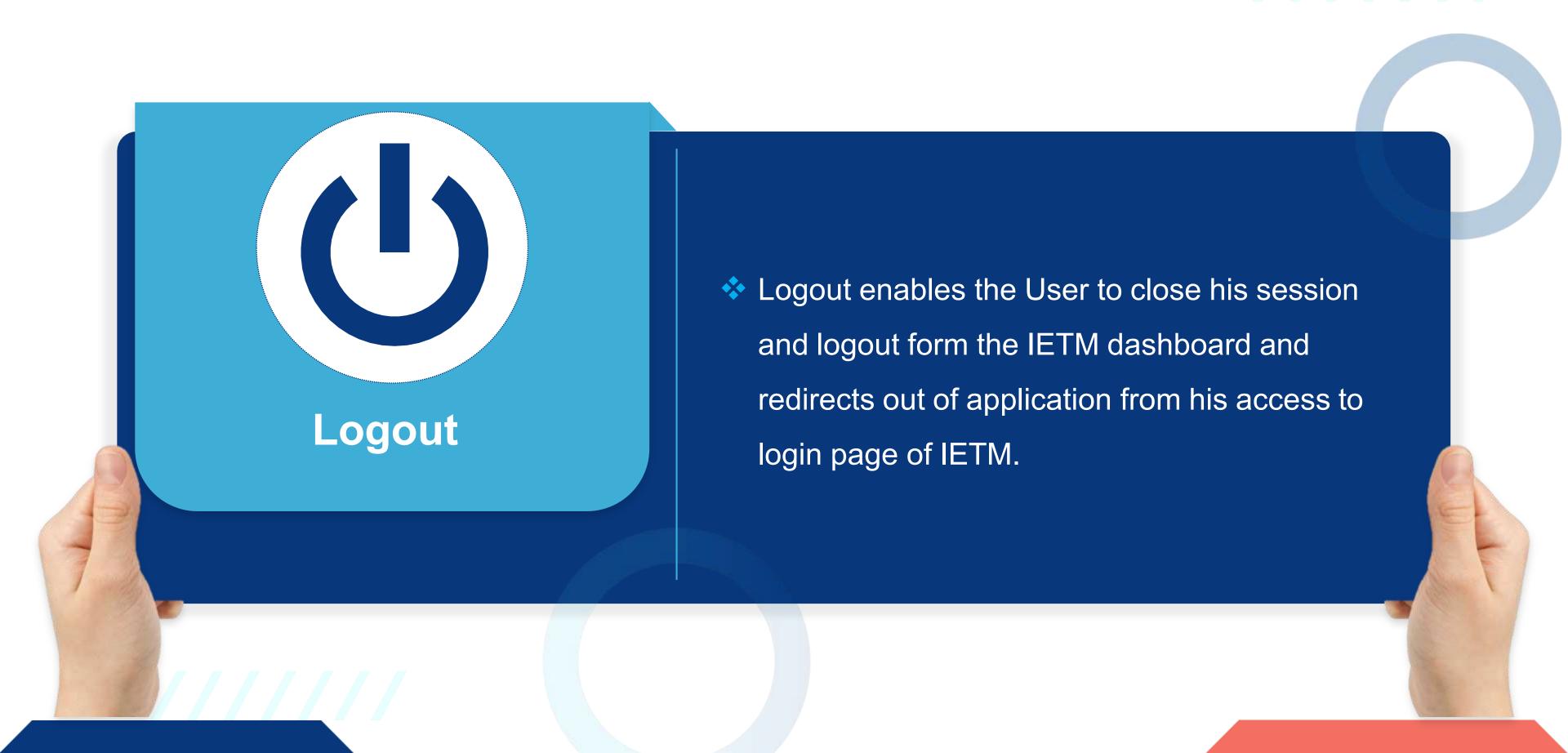














#### Level -3

- is Hardcoded HTML programming.
- It needs HTML expertise to edit in future, after delivery.



#### Level -4

- has an Inbuilt Authoring tool
- Anyone with little training can edit and update the content after delivery.
- If the Authoring tool is given to the client, the client can also update.

Still, 10 % OEMs are asking for Level -3. They were awarded the contract in the 2016- 18 period



# ?

#### What is the difference between IETM level -3 and Level -4?

S. No	Feature	Description -IETM -3	Description -IETM -4
1	Password Protection	Yes	Yes
2	Login Password	Yes. But common for all.	Yes. Different for all. Maintainer, Operator, Admin, Super Admin(Developer mode)
3	User access	All the contents will be visible to all the users. No control over access rights to specific users.	Based on login credentials, we can restrict users. I.e. Operator will be able to see only contents and PDFs and Drawings related to operator only.
4	Admin	NO. Only single log in for all users.	Yes. Admin can create and manage users and content access rights.
5	Super admin/Authoring tool	No	Yes. Client can update the content. Using Super admin or Authoring tool, IETM can be edited. Text, images, Content tree, hyperlinks can be done using Authoring tool.
6	Database	No data base. Documents will be stored as HTML	SQL – Complete text and user information, Content structure will be stored in SQL database
7	Dash board	No	User Dash Board to manage user activities. Admin Dash Board to manage admin activities.
8	Nature of content	Static	Dynamic. Complete data is stored in the database.
9	Interactivity	Less	More
10	Bookmark, Annotations	No	Yes. User wise bookmarks and annotations.



# ?

#### What is the difference between IETM level -3 and Level -4?

S. No	Feature	Description -IETM -3	Description -IETM -4
11	Glossary	Yes	Yes
12	Search	Local Search	Local and global search(Full IETM search).
13	Delivery & Execution	CD and DVD or USB	Installation. Can't be played from DVD/USB.  Need client server environment.
14	Dependent software's to play	No	NO. IETM has inbuilt image and video players, PDF viewers, hence no 3 <sup>rd</sup> part installations are required at client side.
15	Operating systems	Linux	Windows and Linux. IETM can be browser based or EXE based.
16	User activity monitoring	No	Yes. User log in history will be tracked.
17	Hyperlinks	Yes , Hardcoded	Dynamic. Each frame, Images or topic will be given a unique code.
18	Hotspots (A pop up window having image, Video and Text plainer)	Yes , Hardcoded	Dynamic
19	Contents Tree Structure	Yes	Yes
20	When to use	When page count is up to 5000	Anywhere from 5000 to 2 lakhs.
21	Specifications	JSG 0852:2001 Joint service Guide	JSG 0852:2001 Joint service Guide MIL Standards - 87268, 87269 (DATABASE)
22	Print	No	Admin can print the required files.
23	Content	Page based approach. HTML pages are developed and integrated	Frame based approach. No pages exist. All data will be stored in database.  Based on request from user, content will be fletched from server and displayed.



#### What Inputs are Needed?

#### From OEM to Create IETM





All the softcopies of user manuals to be converted to IETM



All images Videos, and drawings to be integrated into IETM



Table of contents/tree structure.



Subject matter expert to resolve technical clarifications



#### What Inputs are Needed?



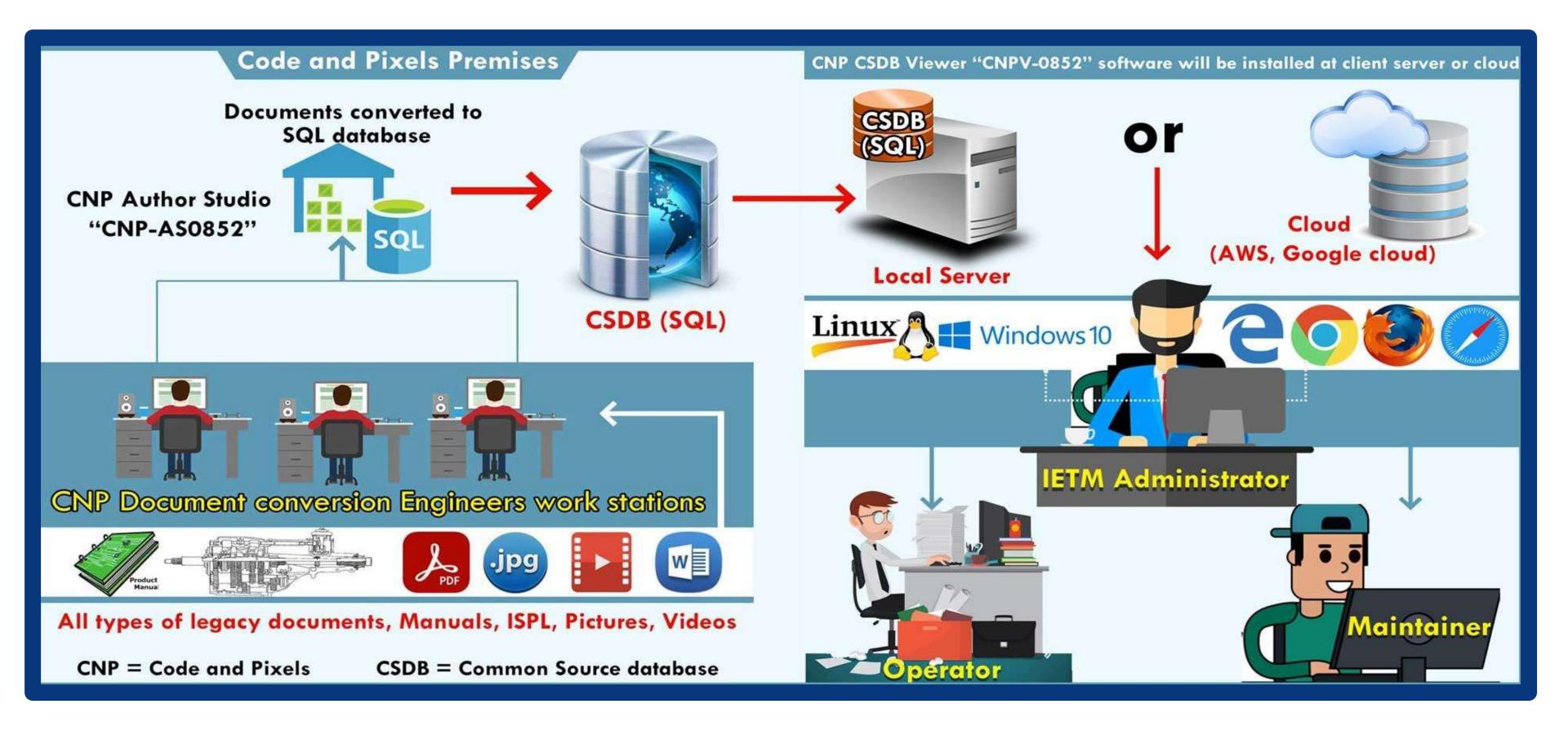
There is no relation between IETM and 3D interactive animations / Blowups and Videos.

If OEM has these multimedia elements like Videos, 3d, 2D animations, Blowups, AR and VR, then

IETM can embed these elements as a Library.

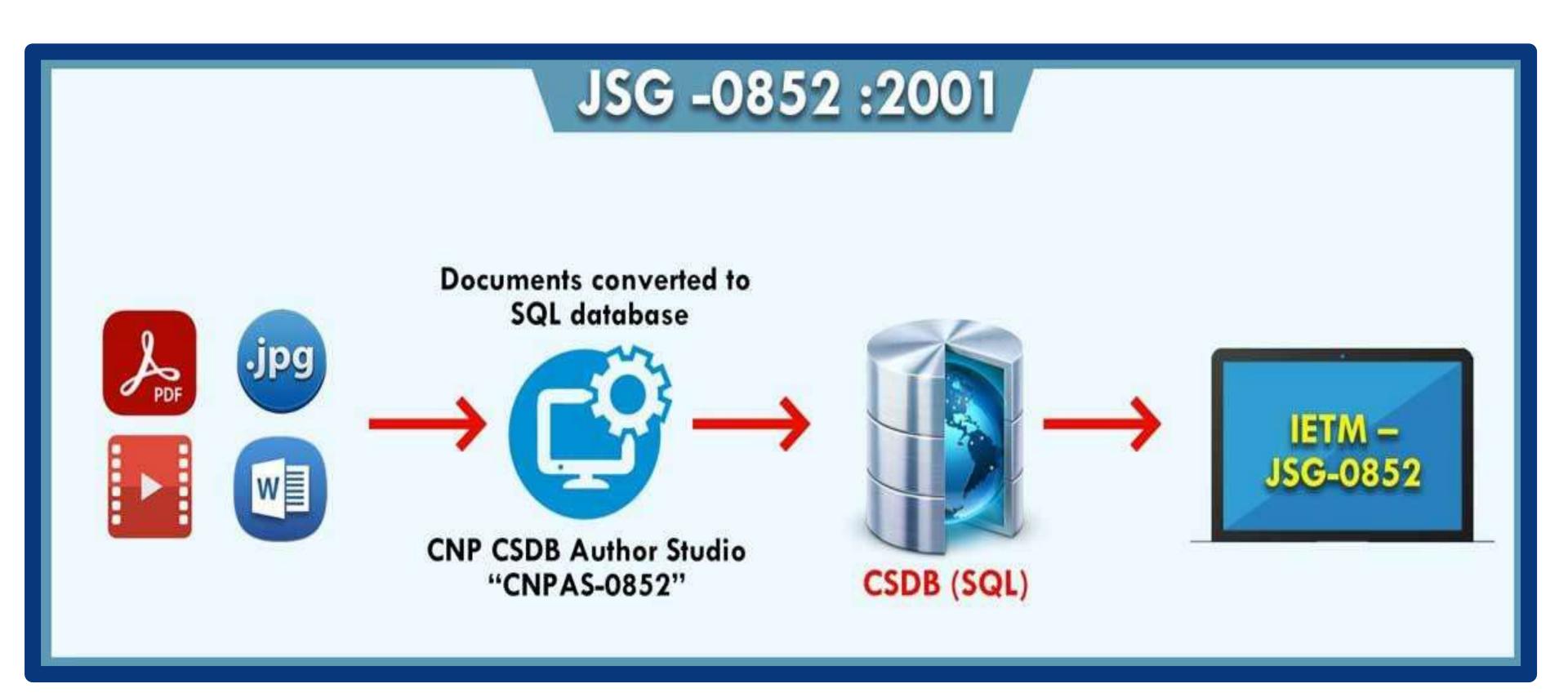


#### **IETM Architecture**





#### **IETM Architecture**





#### Deployment

CHICAT-PLAISTERN DEVELOPMENT

Our IETM Frame work is cross-platform compatible

It can be played on Windows OS and also in Linux OS



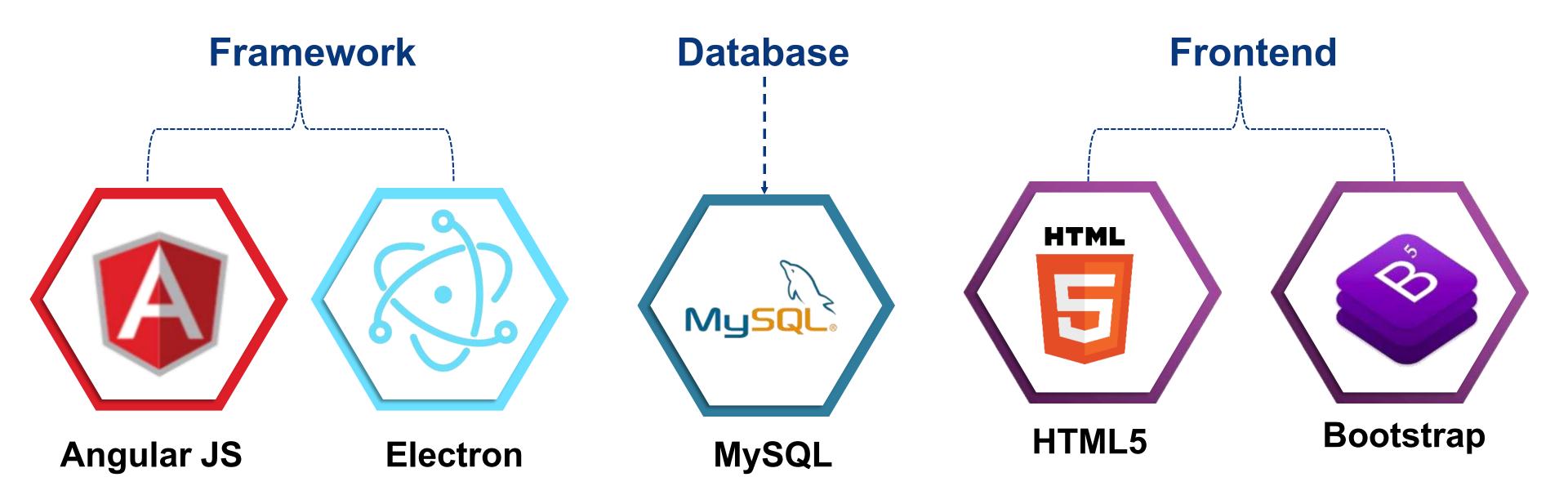
can be played in any Browser

It can be installed in Client Server
Environment and also in single System





#### HTML 5 (responsive) based content integration and module based deployment

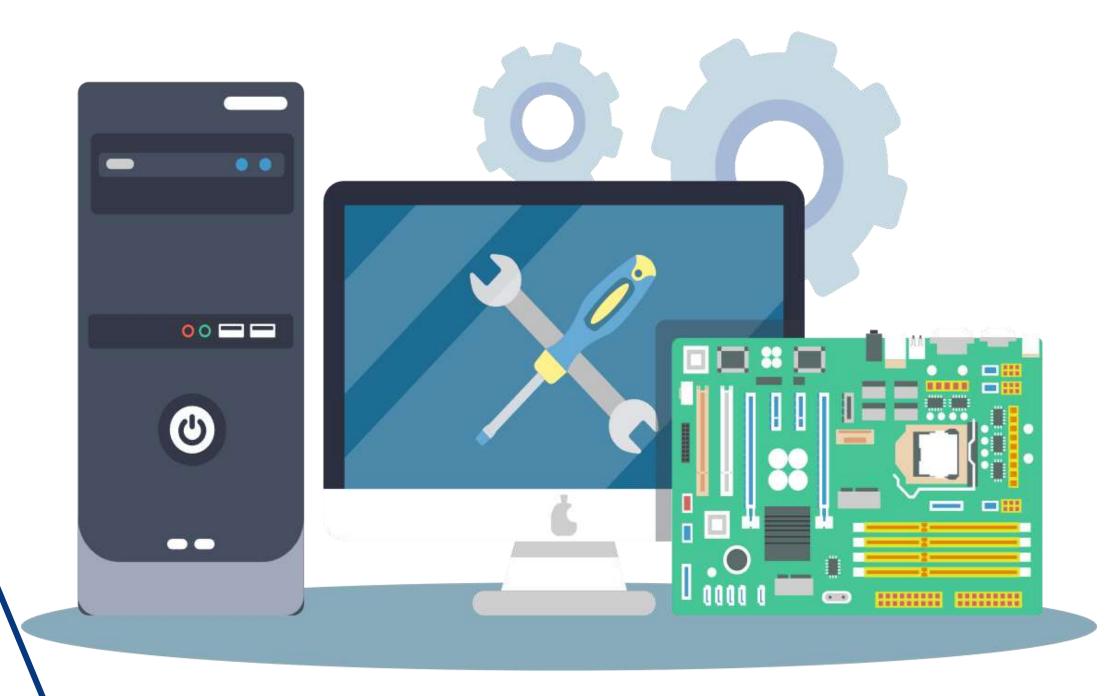




## Minimum Hardware Requirements

# Optimal Performance of IETM

NO High-end hardware or servers are required to run IETM.

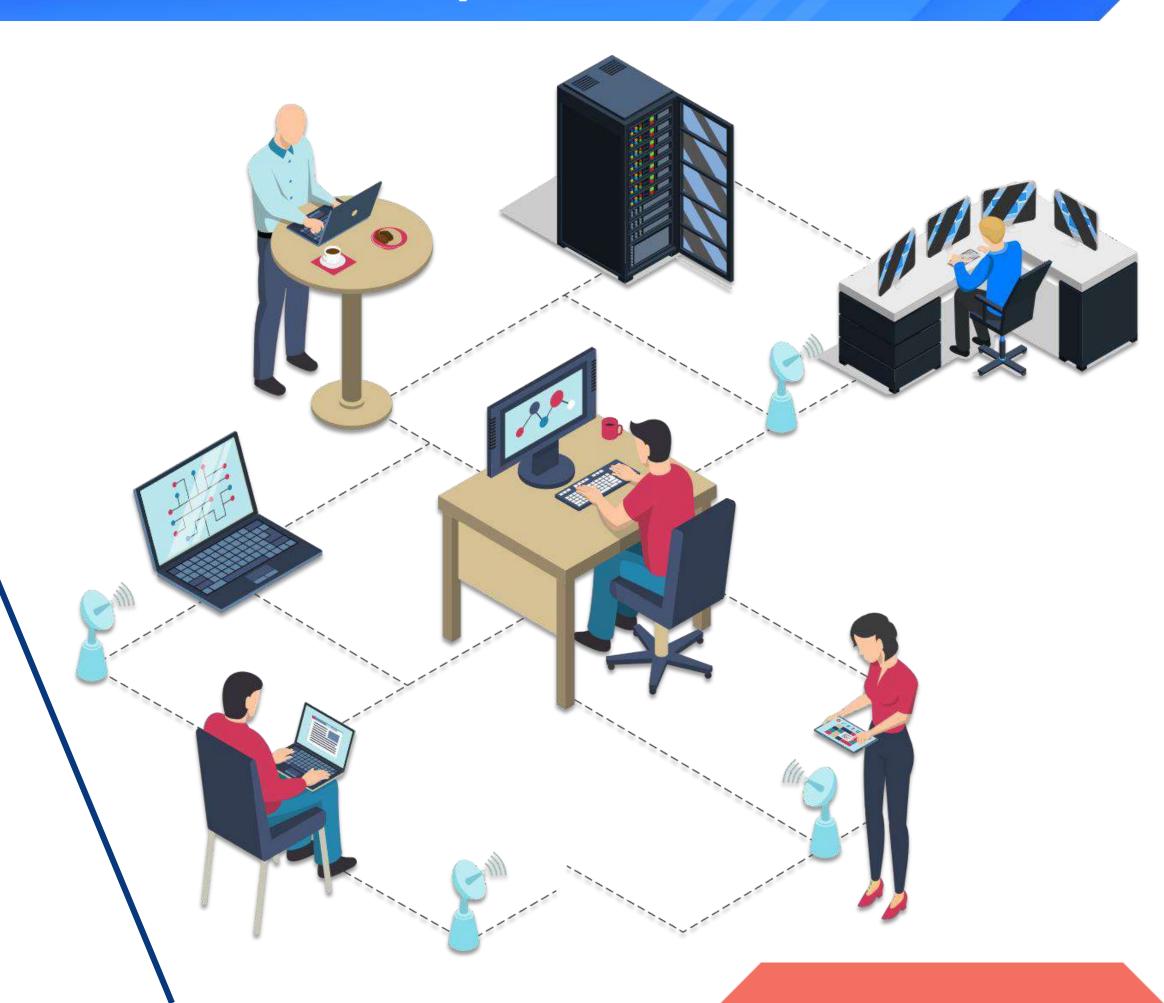




## Minimum Hardware Requirements

# Optimal Performance of IETM

- NO High-end hardware or servers are required to run IETM.
- However, if more concurrent users, then a good configuration server with good LAN connectivity must be ensured.

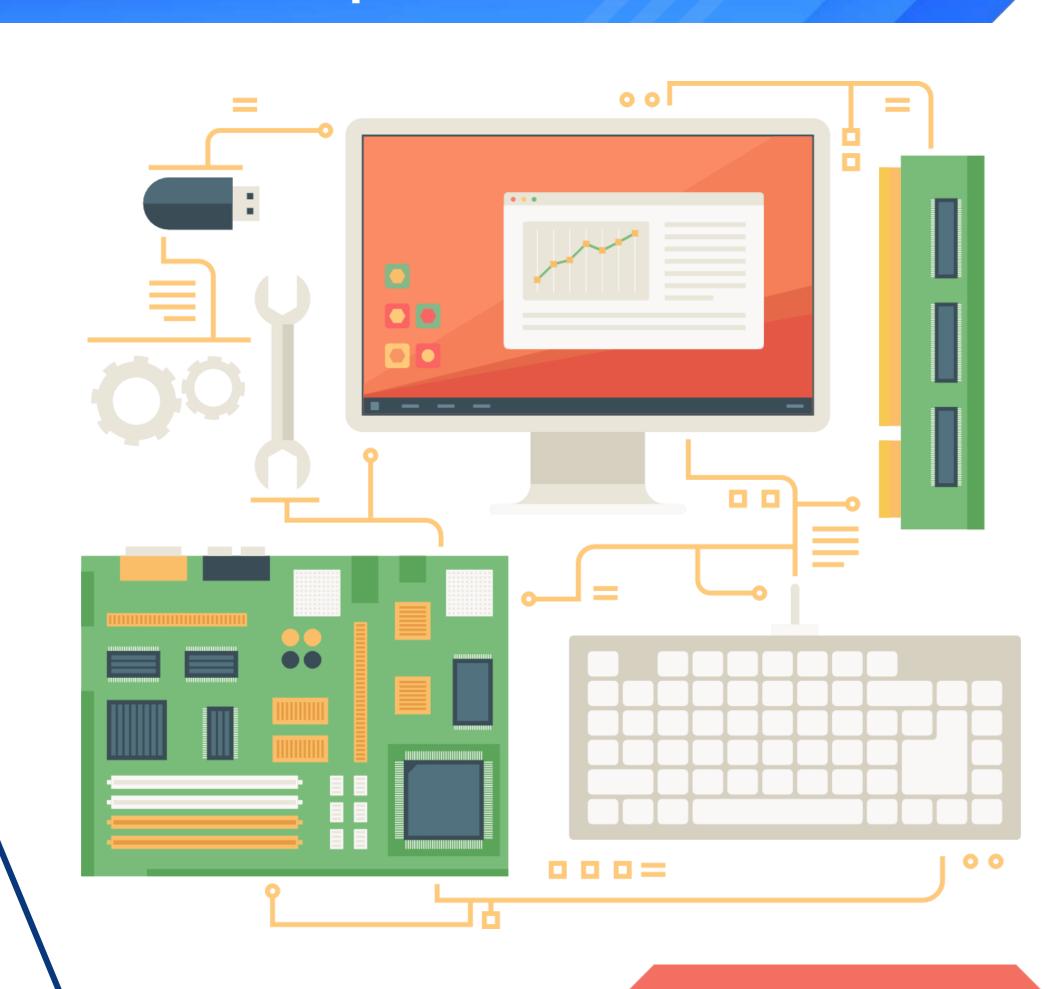




## Minimum Hardware Requirements

# Optimal Performance of IETM

- NO High-end hardware or servers are required to run IETM.
- However, if more concurrent users, then a good configuration server with good LAN connectivity must be ensured.
- i3 with 8 GB RAM systems is the minimum configuration required for the server or for Node.





#### Deliverables

- DB file (Database file, all the manuals are covered in the Database)
- ❖ IETM VIEWER Software to retrieve the content from the database





## Costing of IETM



Level of IETM, is it Level 3 or Level 4



Cost will be based on the number of pages that are to be converted



Vendor calculates cost per page. And a fixed cost of IETM viewer software



If you want to create IETM by yourself self then you also need to buy IETM authoring software.



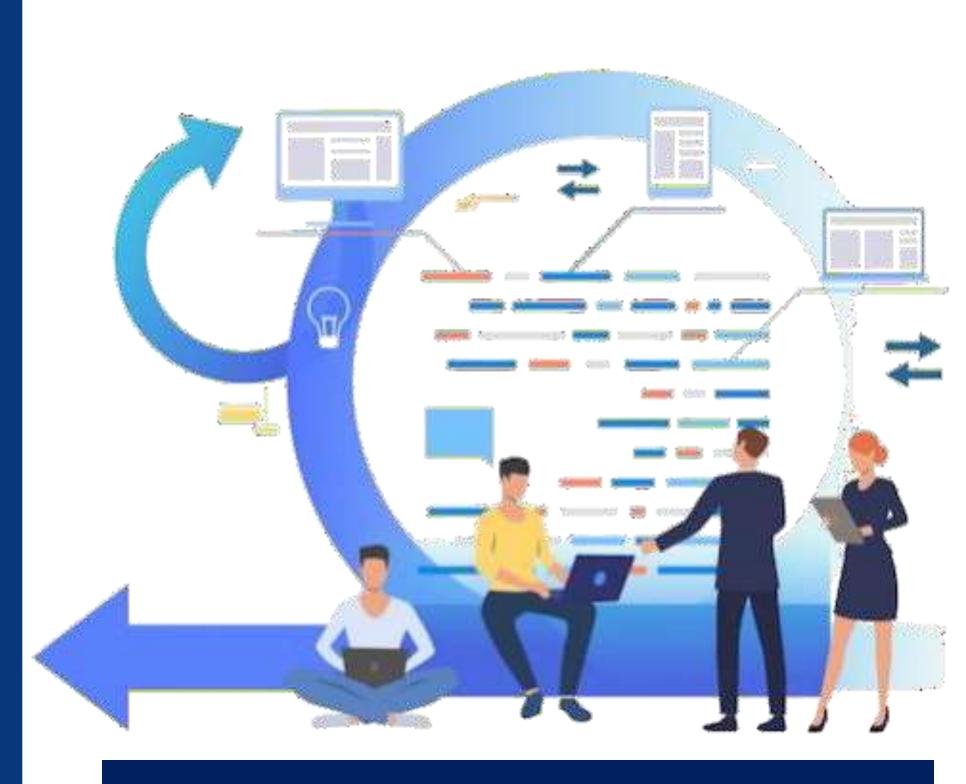
#### Note:

Level 4 will be almost double the cost of Level 3. If you have a option to select, go for Level 3, which is very economical. In a few Scope documents, the user says we need IETM. They don't specify which level of IETM. In such cases opt for Level -3.



#### What is IETM and What is Not IETM?

- There is a misconception about IETM. As the name indicates interactive, people assume that it is a 3D based on blowup software. Interactive means, users can browse or cross-refer or interact with the software to search on a particular topic/sub-topic.
- ❖ 3D Animations and blowups can be taken as separate tasks based on the complexity of the system and the level of blowups that you want. We have a separate division to take up such assignments.
- If your SCOPE /SOTR /RFP says IETM then stick to IETM only.

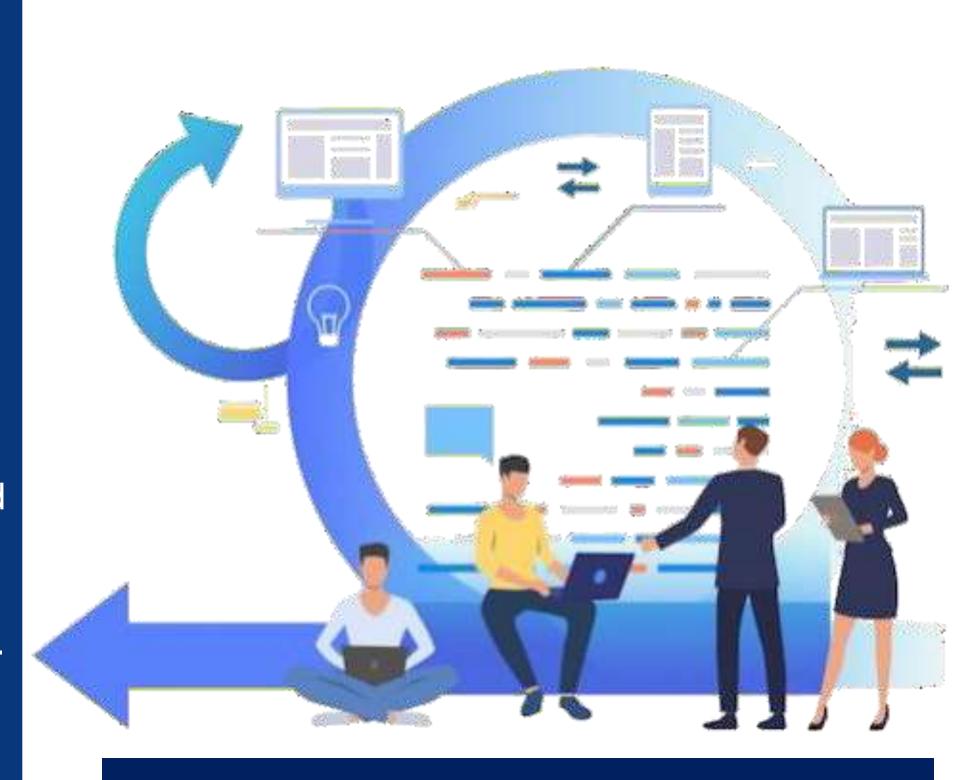


IETM Vs 3D Blowups



#### What is IETM and What is Not IETM?

- These 3D animations, 3d Blowups and virtual reality cost more than IETM cost. They will be good to see definitely but they are not part of IETM. If your client wants 3d and if the scope specifically mentions 3d then it is a separate deliverable but not IETM.
- There is no link between IETM and 3d. If you have 3d animations or blowups, you can integrate into IETM.
- Understand the difference between IETM VS CBT vs. virtual reality.

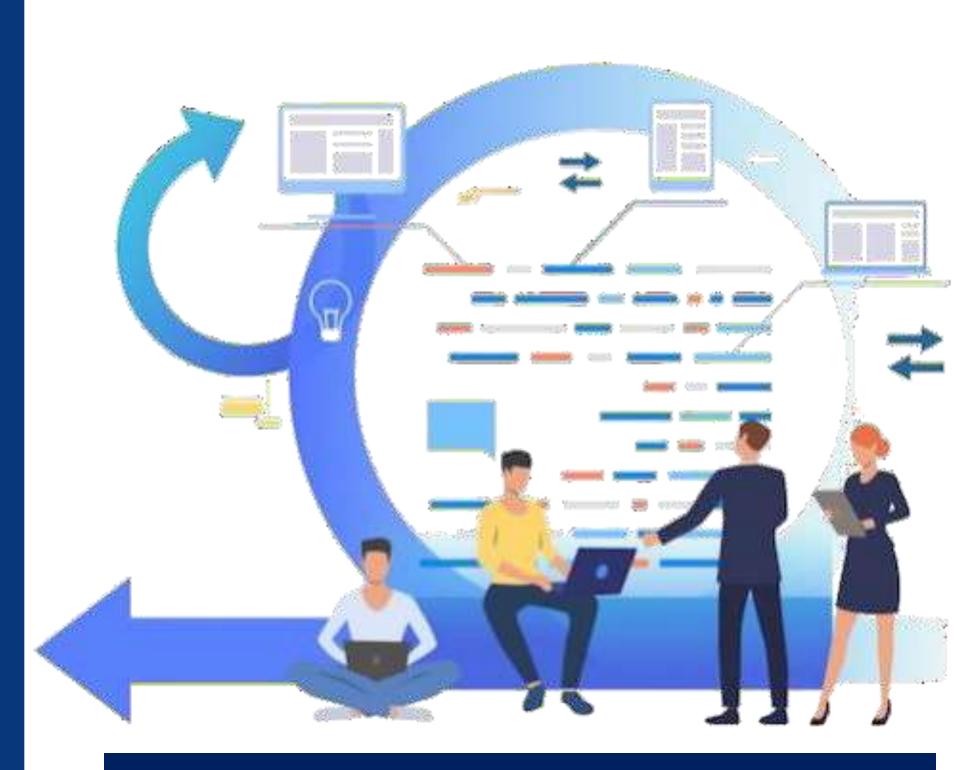


IETM Vs 3D Blowups



#### What is IETM and What is Not IETM?

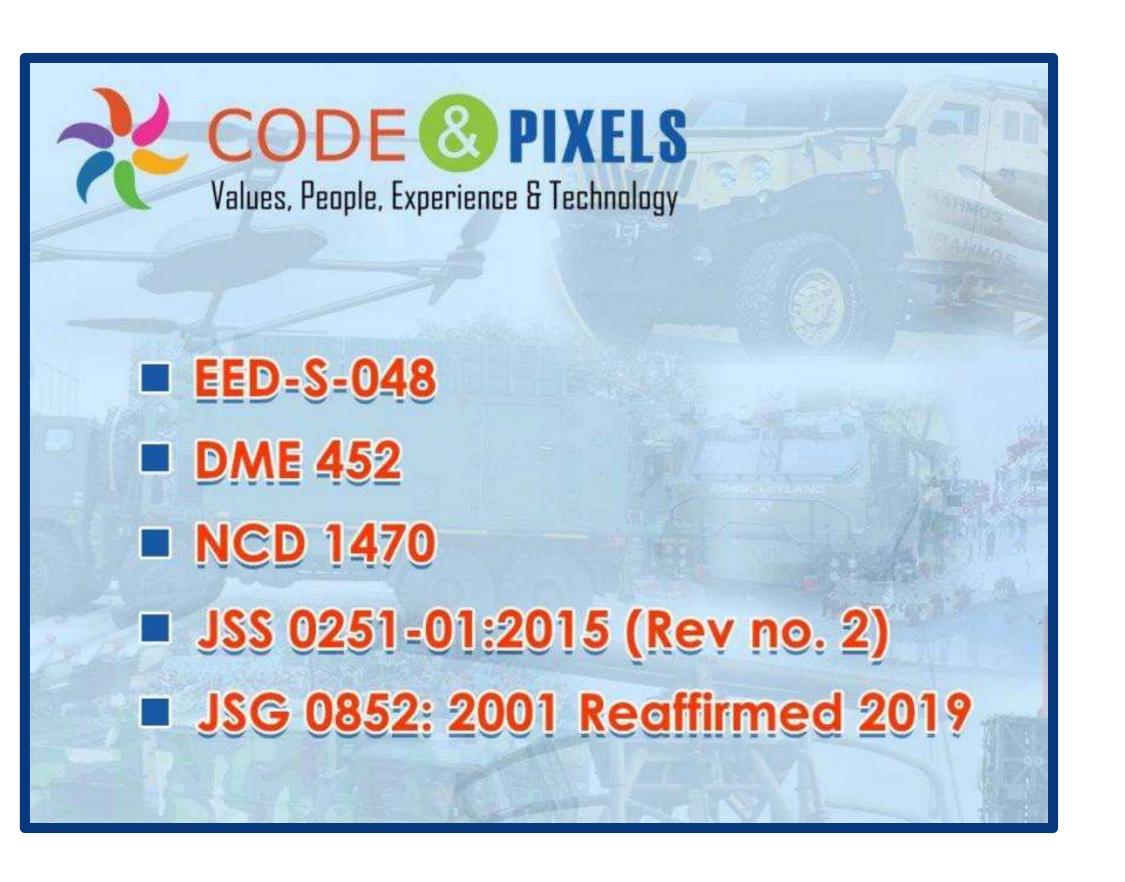
- ❖ Another important point to check is which IETM level the client/ SCOPE is asking for. Generally, they may ask for Level 3 or Level 4. (If your RFQ is 5 years old around 2016-19 then they may ask for Level 2 or 3)
- Level -3 costs less price than Level -4. If you have a choice to select, then select IETM -3 as it is very economical.
- The latest RFPs / SCOPE asks for Level -4 only.



IETM Vs 3D Blowups



## Other Standards you Come Across the RFP



- You may see these standards in your scope.
- The end users say that IETM has to be developed based on these standards.
- Out of these standards, JSG 0852 is the only standard that talks about IETM.
- Other standards are documentation standards.



# EED-S-048

Naval Standard Specification

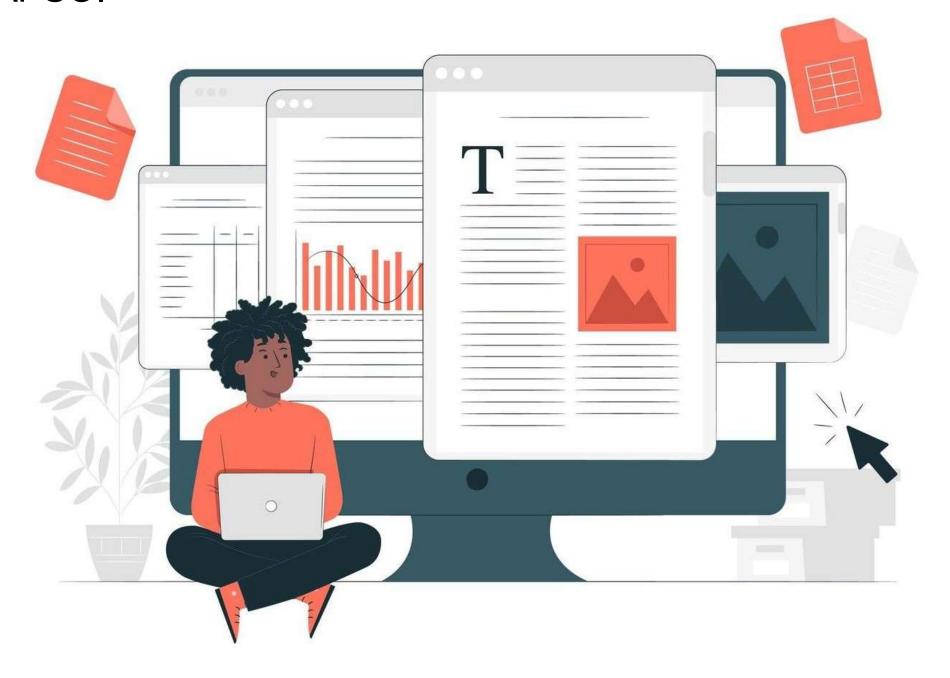


Specification of Documentation for New Construction Ships.





DME is a part of the Materiel Branch and works under the overall command and control of the Chief of Materiel, as PSO, and Assistant Chief of Materiel (Dockyard & Refits) as APSO.



## DME -452

Directorate of Marine Engineering (DME)



**Documentation Specifications** 



## NCD 1470

## DIRECTOR OF STANDARDISATION

भारत सरकार GOVERNMENT OF INDIA रक्षा मंत्रालय MINISTRY OF DEFENCE



मानकीकरण निदेशालय DIRECTORATE OF STANDARDISATION

Department of Defence Production

## Department of Defence Production Requirements For Preparation of Documentation For

Equipment

Material

Structure

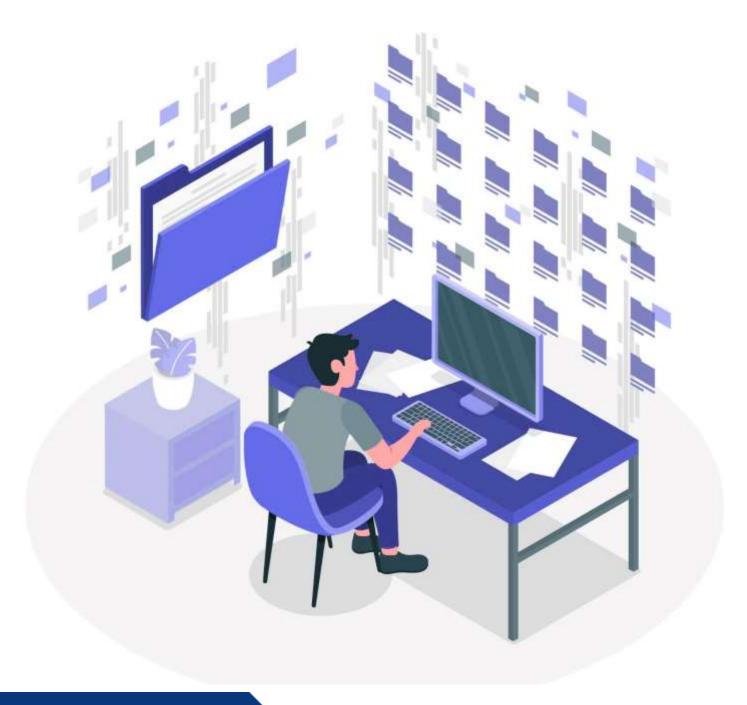
System





#### Procedure for

- Preparation & Production of Technical Publications
- For Electronic and Electrical Equipment



# JSS 0251-01: 2015 (Rev no. 2)

# JOINT SERVICES SPECIFICATION (JSS)

भारत सरकार GOVERNMENT OF INDIA रक्षा मंत्रालय MINISTRY OF DEFENCE



## मानकीकरण निदेशालय

**DIRECTORATE OF STANDARDISATION** 

Department of Defence Production



## JSG 0852

# Joint Services Guide (JSG)

भारत सरकार GOVERNMENT OF INDIA रक्षा मंत्रालय MINISTRY OF DEFENCE



मानकीकरण निदेशालय
DIRECTORATE OF STANDARDISATION
Department of Defence Production

#### **Indian Defence standard to make IETM**





ONLY JSG 0852 is related to IETM all other standards talk about how to prepare documentation for ships





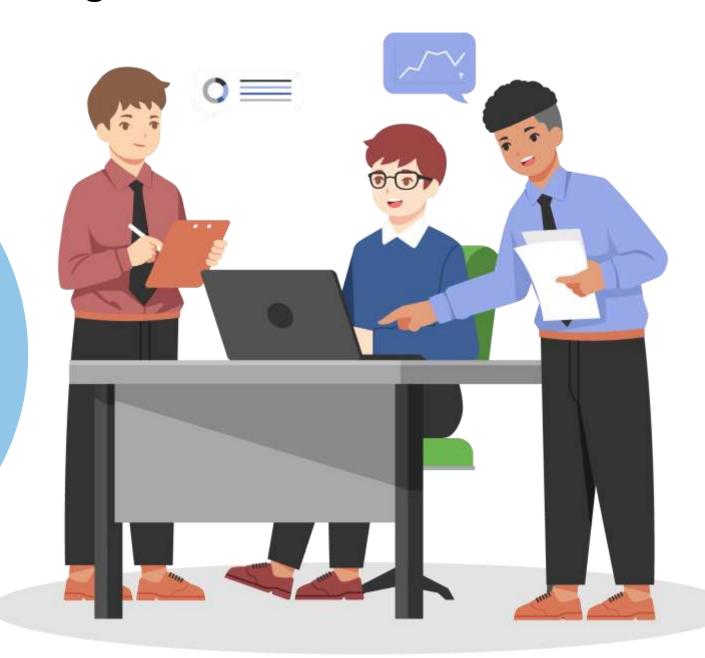


## EED-S-048 | DME 452 | NCD 1470

#### Standards defined by the Navy guiding OEMs

Purely Technical
Stuff and only
Defence Scientists
or Technical Teams
of OEMs

- Who were involved in the development of equipment / devices can prepare.
- They need domain expertise.
- These are absolutely in no way relevant to IETM development.

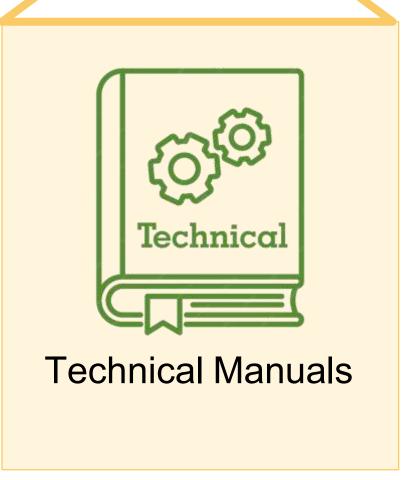




By adhering to EED-S-048 or DME 452 or NCD 1470 these standards your technical team will make manuals i.e.















Content may be written poorly formatted by the Domain Experts as

- Aesthetically Arranging
- Making a Table of Contents
- **\*** Header
- **\*** Footers etc.

It is not the work of Technical People.



- Once this content is written by the experts the documentation team will come to the picture.
- ❖ These documents are re-arranged and re-formatted as per JSS 0251 standards.
- Once the documents are approved by the authority, then next stage is IETM.





## **Steps for Creating Technical Documentation**

(step 1&2 is done by OEM and Step 3 is executed by the IETM Software Vendor)

STEP -3 Converting the final PDF manuals to IETM	Converting the approved/vetted Manul to the IETM database using the IETM authoring tool / IETM software.
STEP -2 Standardising/ formatting the content	Converting the raw content into a proper technical document using JSS standard.
STEP 1 (Content writing)	Writing content/ preparing the manual based on the standards (EED-S-048, DME 452 OR NCD 1470.)

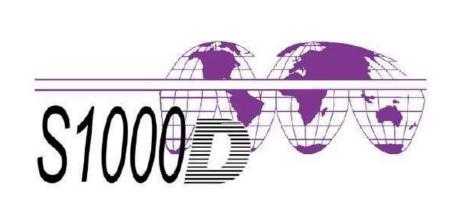


#### Specifications/Standards

## There are two specifications/standards that exist



Joint Service Guide JSG 0852: 2001 Reaffirmed 2019



S1000D European Standard

#### NOTE:

In many Scope documents client simply says, IETM – Level 4. Then it is default that they are looking for Indian Defence standards.



#### Specifications/Standards that Exist

- \$S1000D is European standard and it costs 3 times more than the Indian standard.
- Do not opt or agree to S1000D until and unless it is specifically mentioned in your scope/SOTR document.
- ❖S1000D is a complex version, and even the end users also do not know anything about S1000d.
- \$S1000D needs CSDB studio and it is very costly, maybe in crores.
- ❖S1000D is XML-based, hence few vendors are just giving XML-based S1000d IETMs. A lot of complexity is involved in the S1000D, Don't get into that as no one knows what the original S1000D looked like.





- We are OEMs and serving Indian navy. Our client wants us to deliver IETM along with the Machinery/System/Vehicle/Equipment. What inputs should I take from my client? We have no knowledge about IETM. We are supplying all the manuals in PDF format and hard copies. Why navy needs IETM?
- From 2018, all Defense/Navy/Air Force clients are asking for IETM along with other training Aids such as CBT, Video Film, Charts and Boards, and Technical literature Hardcopies.
- \* Based on the complexity of your Machinery/System/Vehicle/Equipment, you will need to provide different types of manuals as deliverables. (User handbook, Design specifications, Technical manuals, and Illustrated spare parts list)
- Manufacture recommended list of spares, DIM, SMT & STE, ISG, MS, PRS, Inventory, Deployment manuals, Combat manuals, Operating manuals, Maintenance manuals and many more as per your system. The count of all together may range from 5000 to 25,000 for big systems.
- If the user has to refer to a topic, then she/he has to refer to all 10-15 manuals hard copies or soft copies (PDFs) separately. It's a time-consuming and troublesome process and also not completely resourceful.
- For example, if a user wants to search for some particular LRU (line replaceable unit) then he has to open each and every PDF and search for the LRU. He will get many results and it will be hard to refer to all the 16 PDFs at a time. Sometimes, he may have to refer to 2-4 manuals together for a solution. In this case, a traditional PDF file or Hard copy will have many limitations.
- ❖ To overcome the limitations, IETMs are designed.
- ❖ IETM basically combines all these manuals and creates interactivity between all the manuals and drawings etc. That's the reason it's called the Interactive Electronic Training Manual.
- ❖ In IETM, all the manuals and drawings, images, and videos will interact with each other through hyperlinks, hot spots cross-references etc. Thus, searching for topics is made possible in a single click with 100% efficient results.
- ❖ Ask your client whether they want IETM Level 3 or Level 4. And count how many pages of text they have.
- ❖ Price varies based on the number of pages and the Level of IETM. Level 3 is less expensive than Level 4





#### What is the deliverable format of IETM manual? PDF or HTML or DOC?

- ❖ Though the name reads Electronic Training Manual, it is not a single file or Manual. IETM is a software package.
- ❖A software where all the pages of manuals are converted and embedded in IETM framework or IETM software.
- ❖IETM is a software where all your manuals sit.

#### I want exploded view of our machine in IETM.

- If you have any Videos or Images already made, then we will put exploded views in IETM. The IETM vendor's responsibility is to embed all inputs provided by OEM into the IETM framework.
- The IETM scope does not cover the designing of Charts, Blowups, Exploded Views, Animations etc.
- If you want exploded views, then that will be taken as a content development activity.





#### What inputs you need to make IETM?

- \* May it be IETM level -3 or Level -4, we need all the manuals which are to be converted (either into PDF or Word format), all the images (JPEG, PNG, TIF) and all the CAD drawings converted in PDFs and Videos that are to be embedded into IETM.
- ❖We need table of content/content classification done by your subject matter experts.
- We also need your subject matter expert's help in connecting documents and also giving hyperlinks, related topics, glossary etc.





#### How many days will it take to develop IETM?

- ❖ It depends on the number of pages to be converted. We have done almost 50 IETMs of various levels. As per our experience to make Level 3 IETM having 5000 pages, it takes around 30 days.
- ❖ For documents 10,000 to 20,000 it takes around 90 120 days.
- ❖ Major hindrance that we face is the availability of final documents from OEM.
- ❖ We had this experience several times that OEMs have to collect documents from many sources and a number of versions are available for each document. OEMs usually focus on actual equipment but not on documentation of equipment. Collecting final approved files from OEM is the biggest challenge in IETM development. If all the final approved documents are in place, it takes standard time as mentioned above.





#### What will be our /OEM role?

❖ You need to nominate a person as a Point of Contact from your end. Our technical team will be in constant touch with the POC to take approval on UI and UX (User interface and user experience), i.e. the logos to be used, color formats, table of content finalizing and cross checking of IETM etc.



#### My client wanted IETM in DVD.

❖ Probably, your client must be looking for IETM level -3. IETM level -3 only can be played from CD/DVD player. IETM -4 requires installation as it uses a Database.





#### When do we need IETM -3 and IETM -4?

- ❖ It depends on your client's requirements. General practice is, IETM level 3 is used when documents are less, i.e. below 2000. When documents are more, IETM -4 is required.
- Having said that, we have also done 2000 Pages of IETM Level 4 and 6000 pages of Level 3.
- ❖ It completely depends on the Client. If your system is small, you can convince them to go for IETM level -3
- Cost wise, Level 3 is economic than Level 4



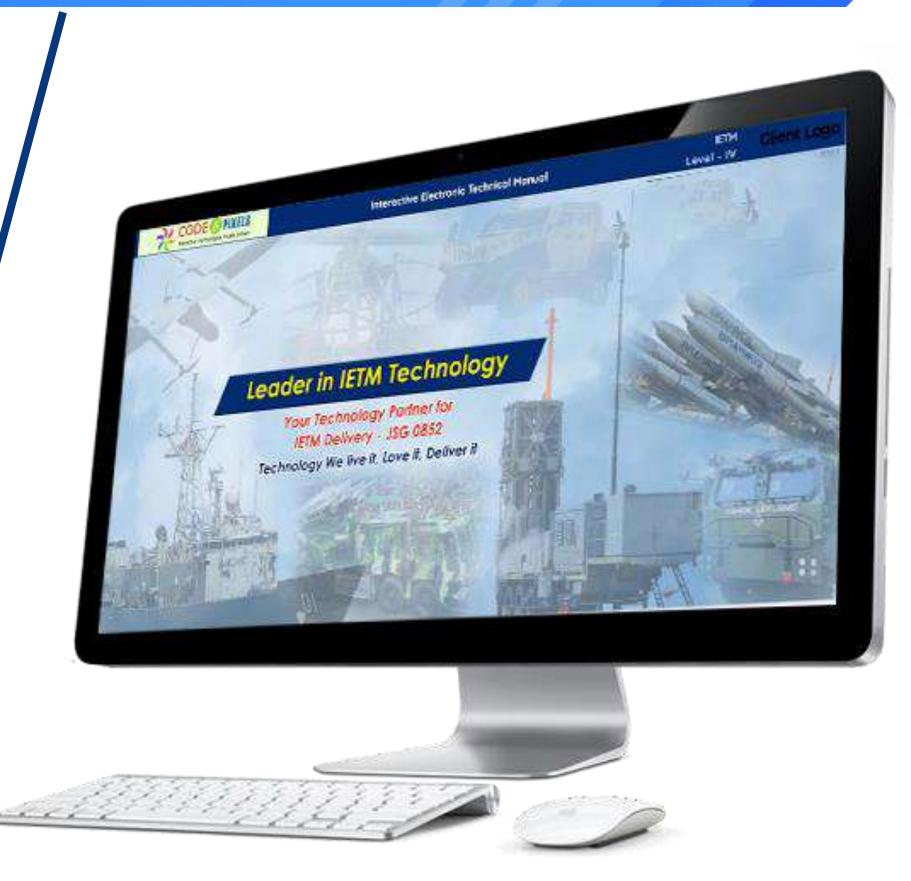


#### I find very few IETM vendors and how different are you from others?

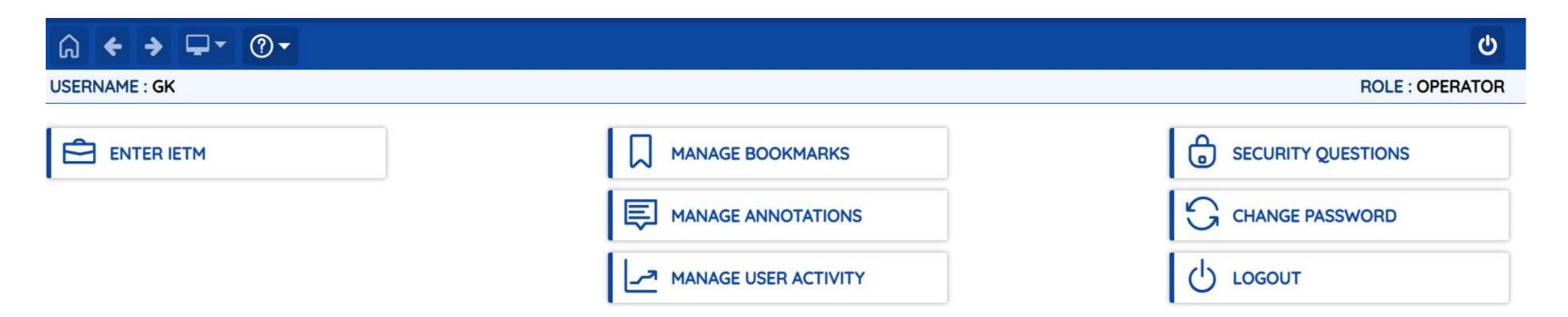
- ❖ We are the only company in Hyderabad having experience of delivering 30 + IETMs in past 5 years.
- ❖ We worked closely In associated with all the Defense Labs and we are fully aware of their requirements as almost 30 IETMs are being used by various Army or Naval, Air Force headquarters and training centers and Army Air Defense Colleges etc.
- You ask for Purchase Orders from other vendors. Majority of vendors don't have POs from clients.
- Many vendors don't have IETM software with them to showcase demos.
- ❖ We are available any day to give a demonstration on IETM level 3 or 4
- ❖ IETM is a combination of software and data conversion. We have the strength of 50 + software and content development professionals and we guarantee delivery date as we have experienced resources having dealt with 30 project life cycles.
- ❖ We have a strong R&D team, which exclusively works on improving software as per the latest technologies. The majority.







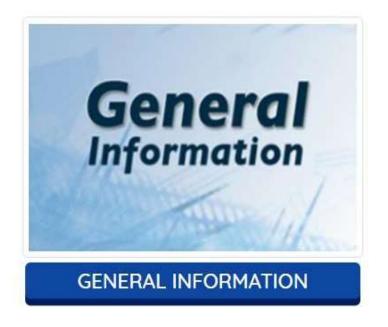






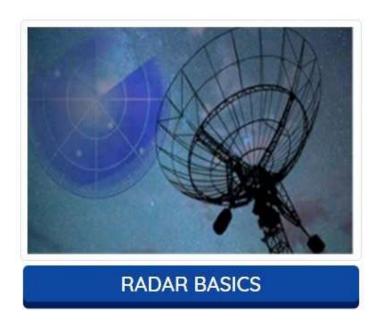




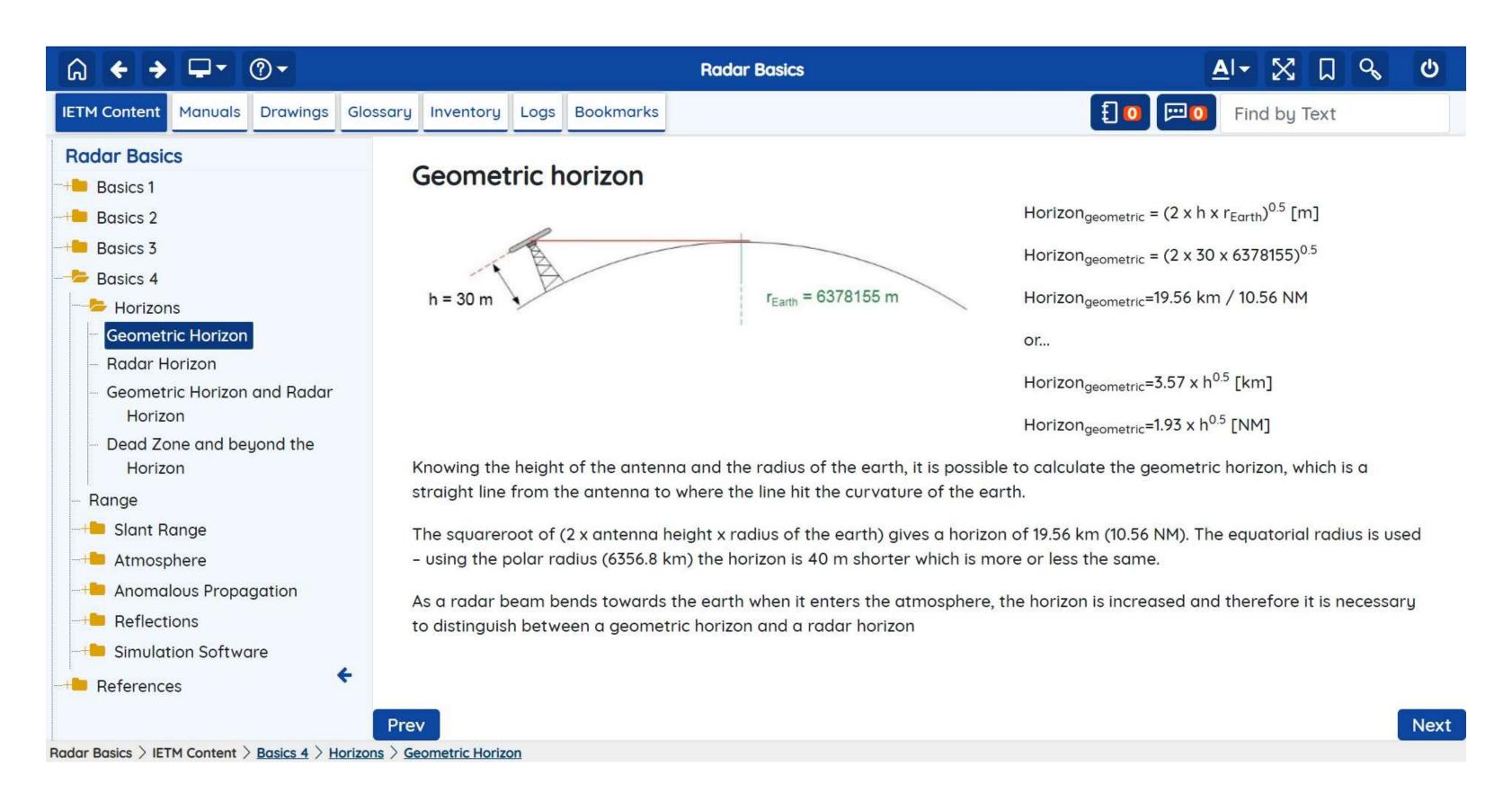




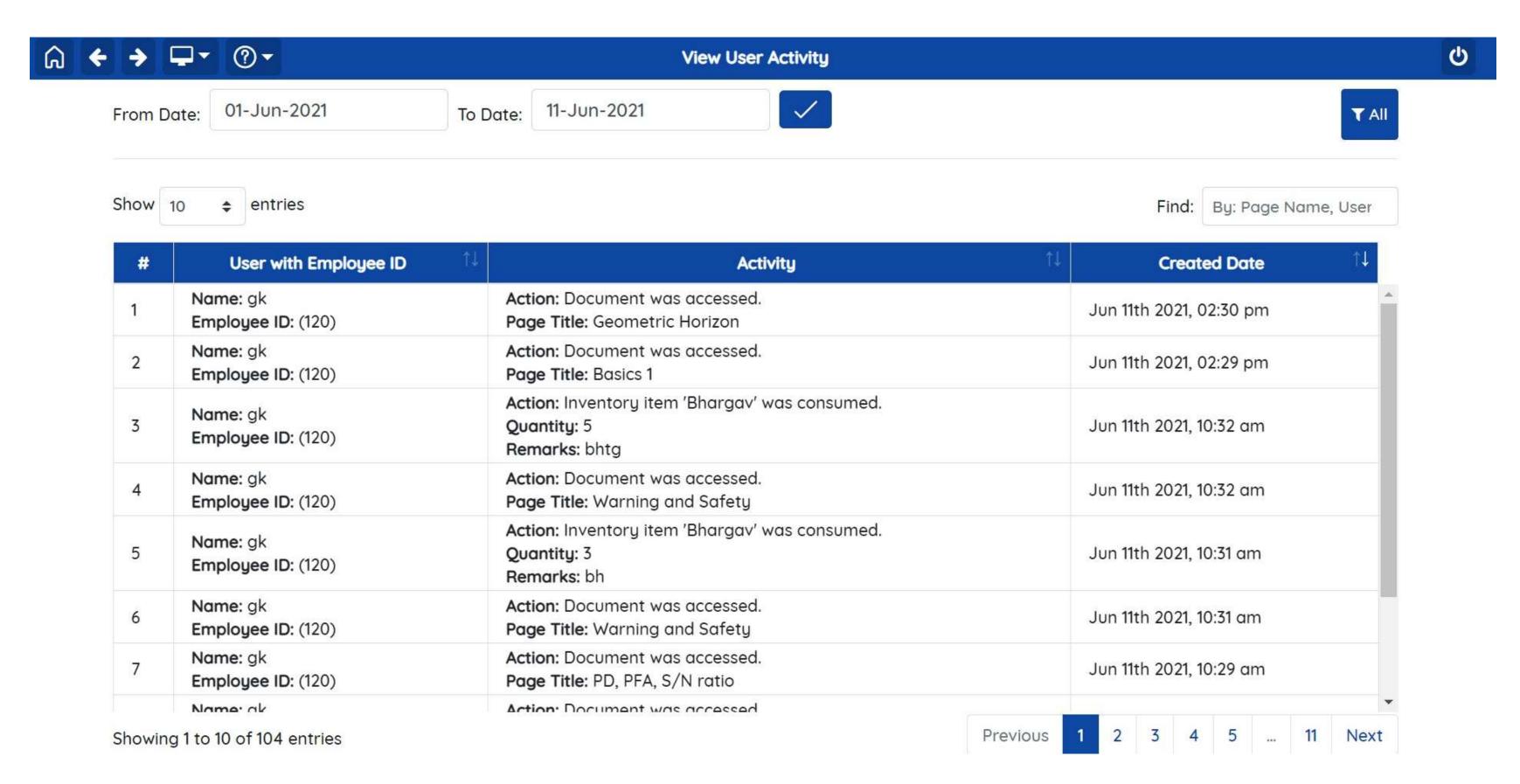








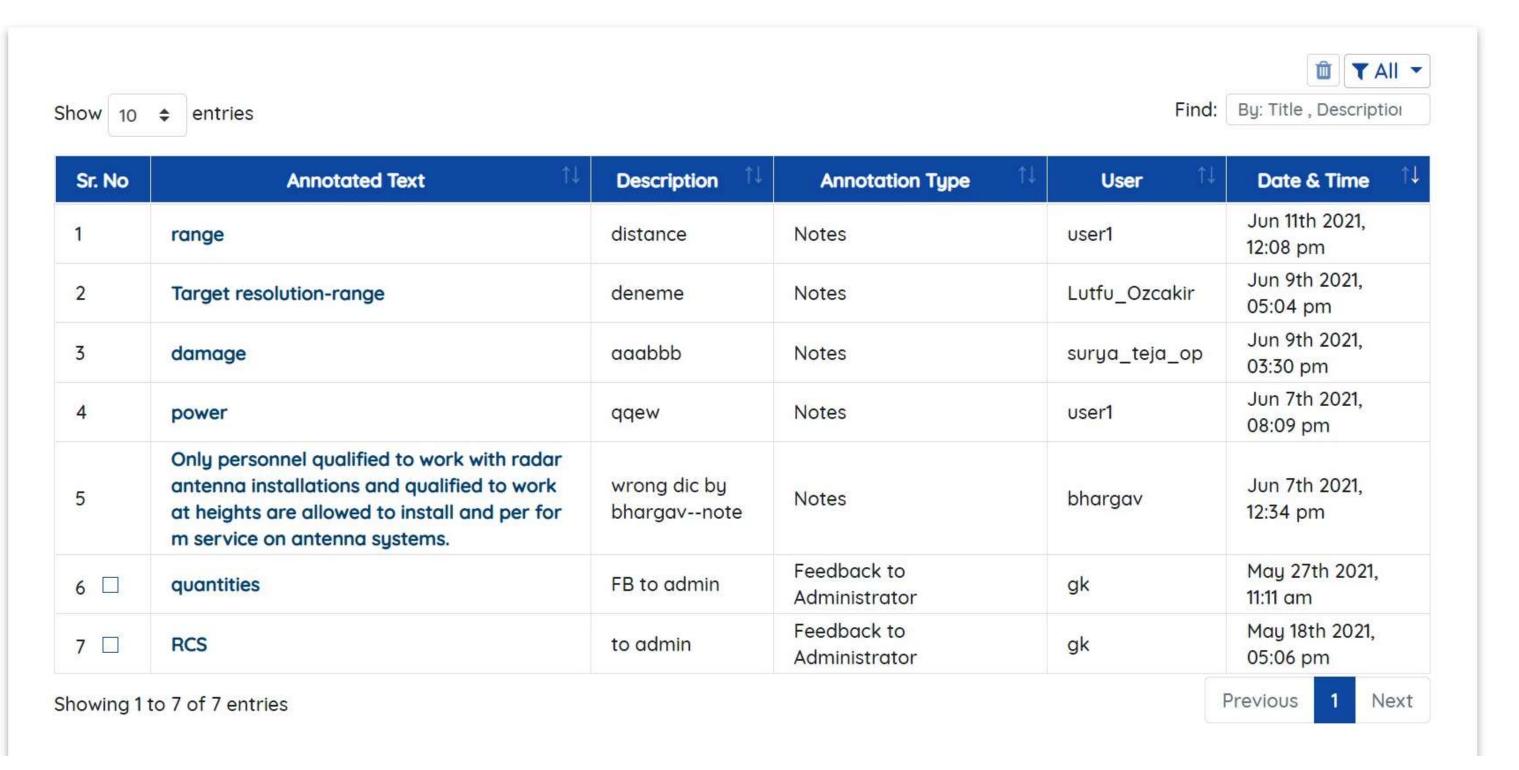




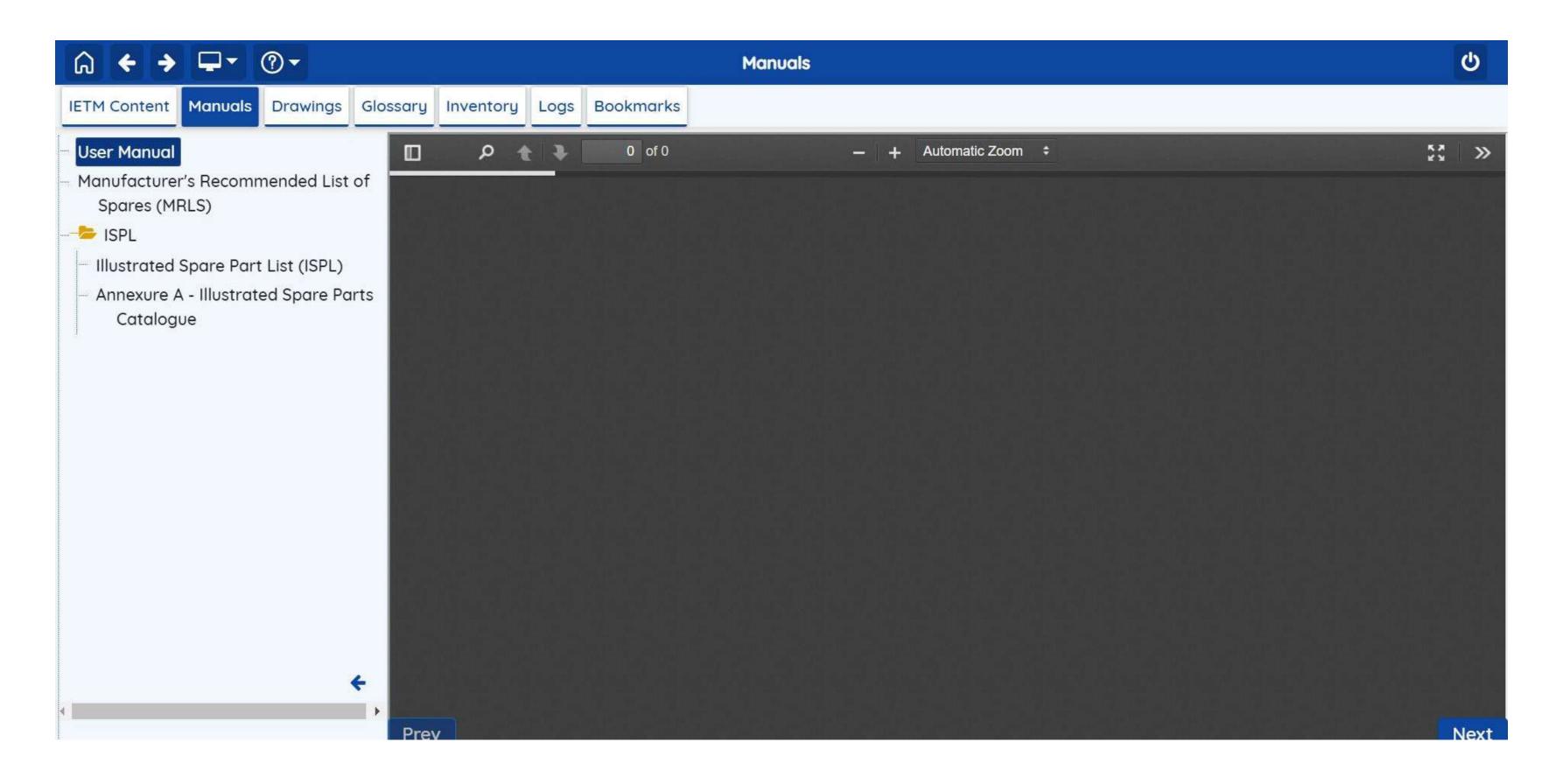




#### **Manage Annotations**





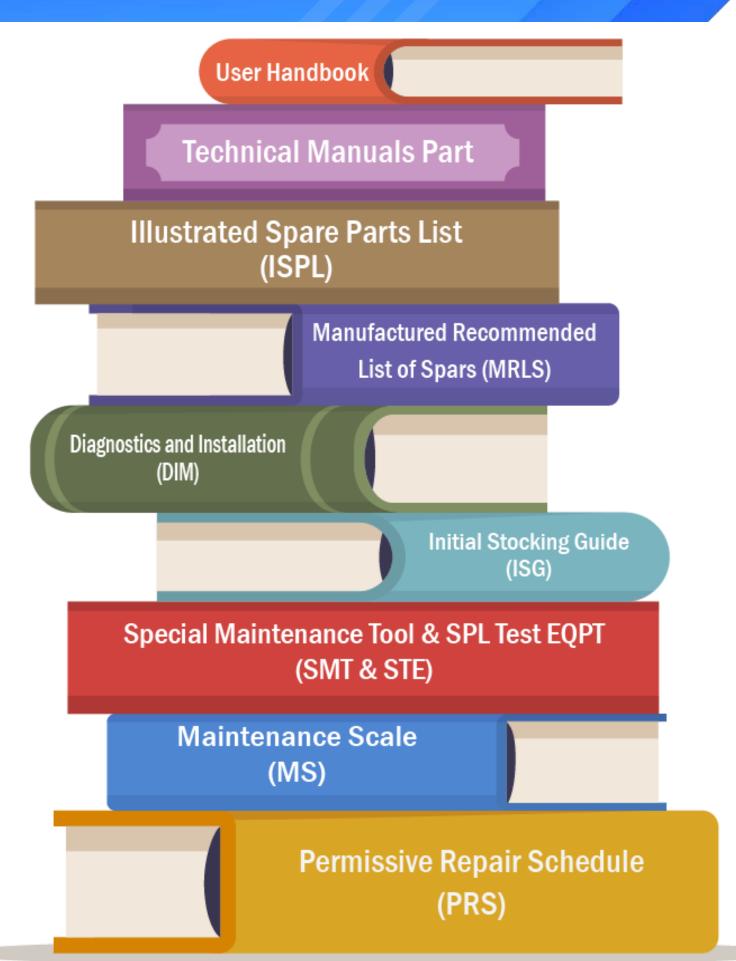




#### Following Documents are Integrated in IETM

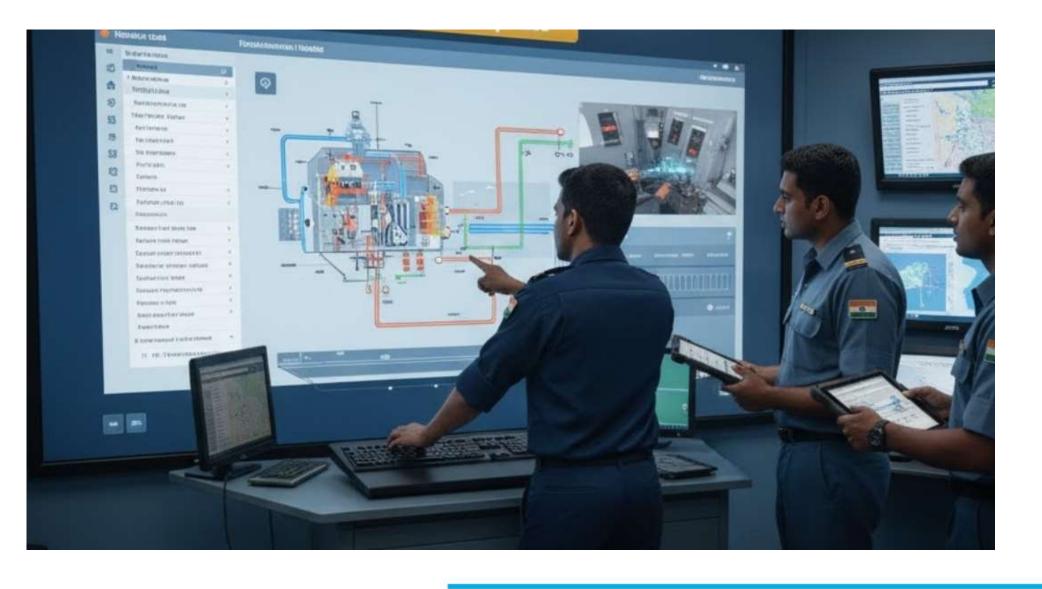
- User Handbook (UHB)
- Design Specification (DS)
- Technical Manuals (TM)
- Illustrated Spare Parts List (ISPL)
- Manufactured Recommended List of Spars (MRLS)
- Diagnostics and Installation (DIM)
- Special Maintenance Tool & SPL Test EQPT (SMT & STE)
- Initial Stocking Guide (ISG)
- Maintenance Scale (MS)
- Permissive Repair Schedule (PRS)
- Inventory
- OEM Manuals
- Operating Manuals
- Combat Manuals
- Deployment manuals
- Air Transportation Manuals





## Want to see the IETM software?

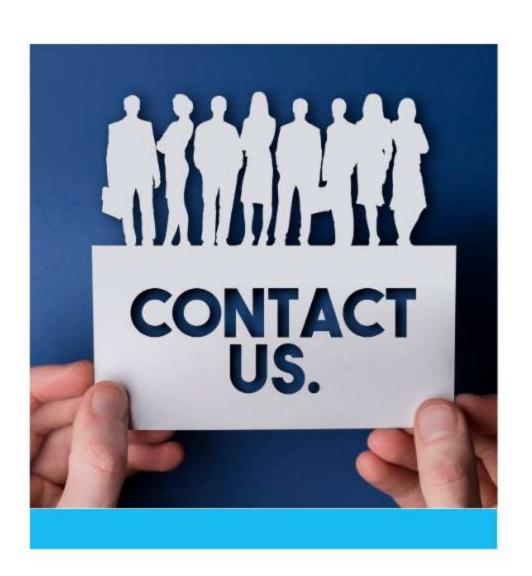
Until you see the software, you will not be able to understand it fully. Hence, we strongly recommend you have a virtual meeting for 15 minutes so that you will have a fair idea about the IETM software.





Write an email to <a href="mailto:ietm@codeandpixels.net">ietm@codeandpixels.net</a> or call 09849527706 to fix up the quick demo on IETM.







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- **<u>gopikrishna@codeandpixels.net</u>**
- <u>www.codeandpixels.net</u>
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