

ABSTRACT

The purpose of the Data Centric Knowledge Management System (DCKMS) is to centralize knowledge generated by employees working within and across functional areas, and to organize that knowledge such that it can be easily accessed, searched, browsed, navigated, and curated.

DCKMS is a web based application which allows employees of a company to share their knowledge with others in the company. Also it allows them to search for knowledge assets when in need. It provides a facility for the employees to register themselves as 'experts' as well as search for other 'experts' incase of any problem/requirement in their project. It is a one stop shop for finding solutions for your problems.

Every employee needs some help at some point of time. To solve some issues or bugs or problems employees has to depend upon many sources like internet. This is very difficult and time consuming task. Also accurate solution may not be available. Data Centric Knowledge Management System is a perfect solution to overcome the above mentioned problems. It provides a facility to share your knowledge by submitting various knowledge assets and to search for assets when in need. It allows users to search documents based on keywords as well as name of the author, topic, category etc.

This application allows users to register themselves as experts in their favorite areas. Also allows users to find and contact experts in order to seek help from them. This application provides end to end solution to maintain shared knowledge assets in a company. It allows K-Team and Experts to evaluate the documents submitted by various employees before publishing them. Also based on this rating various awards are being awarded to employees.

This application maintains the entire data in a centralized and secured database server to maintain consistency in report generation and allows users to access from any location. This is an online application that allows multi-user access of system and to track or manage the data simultaneously. Various roles and authentications have been provided and access to various areas in the tool is restricted according to the role given to users.

K-Bank Module: This module handles the document submission and searching for documents using different criteria like keyword search, topic search, by author name etc.

Document Finder Module

Upload & Download Module

Admin Module: This module provides interface to K-Team for initial screening of documents and assigns evaluators to rate the documents.

User management module

K-Team Documents initiation module

Documents forwarding module

Evaluation Module: This module provides a dashboard for evaluators to view the documents assigned to them for review and allows them to accept or reject the document and rate them based on the quality.

Document Evaluation

Documents Rating module

Dash Board Module

Reporting Module: This module is responsible in generating various reports.

User Report Module

Category wise documents report module

Ratings Report module

Existing System

Here in the existing system, the company maintains all the knowledge based documents in a separate system which will be accessible for all employees through LAN and they can post their new documents into this and access the earlier documents. Searching for related documents based on author, technology etc is a time taking process. Managing the documents category wise and restrict them not to be accessible based on the user type becomes complicated. This system doesn't restrict unnecessary documents to be posted.

Drawbacks:

- Difficulty in maintaining security levels for the documents.
- Difficulty in browsing, navigating and searching for required document.
- Difficulty in giving ratings for the documents.
- Availability of information in this manner is subjected to damage.
- Difficulty in restricting the employees not to update the documents
- Difficulty in generating different reports

One way to overcome all these difficulties is so store all the information in the computer. The computerization helps the users a lot.

Proposed System

The proposed system is fully computerized, which removes all the drawbacks of existing system. In the proposed system, it allows different employees of the company to upload their knowledge document into this system which will be verified by next level users to avoid unnecessary documents. Also it allows them to search for knowledge assets very easily when in need. It provides a facility for the employees to register themselves as 'experts' as well as search for other 'experts' in case of any problem/requirement in their project. It provides a facility for the evaluator to rate the documents posted by the employees.

Advantages:

- It provides a facility a to share knowledge documents across the company
- It allows the employees to upload and download the documents from their systems
- Easy in browsing, navigating and searching for required documents
- Provides a facility to restrict the unnecessary documents to be posted
- Provides flexible way in generating different reports
- By the following the new approach the information can be accessed from any where just with a mouse click. This helps the users by saving lot of time providing the user with the up to date information Centralized database helps in avoiding conflicts
- This project provides a rich user interface for the user to access information with least effort (“look and feel”).
- It allows to rate the documents at different levels
- It allows to publish or reject the documents.

Hardware Requirement

Pentium IV processes architecture

1. 256 MB RAM.
2. 40 GB Hard Disk Space.
3. Ethernet card.

Software Requirement

- **Operating System:** Windows 2000/XP
- **Web Server:** Apache Tomcat Web Server
- **Server side Application Software:** Java Server Pages (JSP)
- **Client Side Application Software:** Java Script, HTML
- **Data Base:** MySQL 5.0
- **Client Browsers:** Internet Explorer 6.0 or Netscape Navigator 4.7
- **Java Software :** Jdk1.5.0