

## E-commerce for Artisans

"Background: The Indian handicraft and handloom industry engages over 23 million craftsmen. A cross-border e-commerce marketplace will allow buyers and sellers to meet at one platform for business. It will help in growing their business and the overall economy of our country.

Summary: To develop an exclusive e-commerce platform for artisans to sell their products. The demand forecast of the items required, automatic quality checks on the items as well as Sentiment analysis with next recommendation actions for the artist shall be added.

Objective: To promote the Indian handicraft industry globally ? Providing a common platform to make, market, and sell high-quality handicrafts and goods."

## DEVELOPMENT & IMPLEMENTATION OF AN INTEGRATED WEB-BASED OFFICE DOCUMENT MANAGEMENT SYSTEM

Background: Web-Based solution to track the status of document/file going through approval process in any department. Summary: All the Institutes/ Departments under the Ministry are using some common file/document movement and approval procedures. The physical movement of such files/ documents has many disadvantages. When a document file is under process of approval, the location of the file document where it has been delayed on the way while moving from table to table, is very difficult to trace. The status of a document/ file which has been initiated is not traceable until it returns back to the parent section/ Office. During physical movement of files, there is every chance of missing files. Due to natural disasters or mistakes on an individual level, files/ documents may get damaged. There is a possibility of tampering of documents even after the same has been approved/ closed. There is wastage of huge amounts of paper and printing expenses. This procedure also requires attendants/ peons/ MTS personnel for the physical movement of files. It requires huge space for storing files/record keeping.

Objective: Formulation of a common file/document movement procedure, which can be customized to suit the systems in different departments/sections and Institutions. Development of a web-based integrated platform for creation, forwarding, rejection/ approval of documents/ files in electronic format with facilities for making sketches, attaching external reference files etc. Customization facility to define the file movement procedure and nomination of designated Officers/ sections. User creation and user rights management Development of user-friendly web-based platforms for managing files under different categories viz. Note sheets for obtaining approvals, leave applications, interoffice notes, Circulars, P&A Office orders etc. The web-based platform should provide a user-friendly environment similar to popular

email platforms enabling us to manage emails under various categories like primary, social, promotional, updates, spam, sent, outbox, inbox etc. Generation of reports based on files/ documents/information as per requirement. Centralized server with sufficient backbone connectivity, storage space and security. Training and implementation in various sections/ Institutions/ departments of the Ministry.

### Assessment of Tele-Education(Online Content which teaches an individual)

"Tele-Education is also known as e-learning which comprises all forms of electronically supported learning and teaching systems. E-learning content are available everywhere on the internet but there is not assessment of the quality of the content provided. Addressing this problem will help in having a tool which checks the quality of content provided in the e-learning course/video which will help in removing the ones not upto the mark. There is a requirement of a tool(Web,App,Standalone tool) which assesses the e-learning contents automatically as manual effort would not be possible with e-learning contents spanning more than 1Billion videos on youtube itself. 1. How can we have a digital tool to assess the efficacy of tele-education happening through TV in terms of assessment of teaching and learning?"

### Chat Messaging Application

With the emergence of social networking sites that offer built-in messaging features, independent messaging apps have grown less prominent. Although not highly related to modern industry requirements, it is nevertheless a wonderful learning MERN stack application example, as it does not contain any considerable complexity.

### Smart Traffic Management System:

The objective of this project is to create a web application that can optimize traffic flow in a city. The system can be integrated with IoT sensors that detect traffic density and provide real-time data to the system. The web application will allow citizens to access traffic updates, suggest alternative routes, and provide feedback to the authorities.

### Health Information System:

The objective of this project is to create a web application that can manage health information for individuals, hospitals, and clinics. The system can allow users to create and manage their health records, doctors to access and update patient records, and hospitals to manage their patient data. The web application will provide an efficient and secure platform for managing health information.

### Online Education Platform:

The objective of this project is to create an online education platform that can provide access to quality education to students in remote areas. The platform can offer courses in various subjects, provide interactive learning tools, and allow students to interact with teachers and other students. The web application will provide an inclusive and affordable platform for online education.

### Disaster Management System:

The objective of this project is to create a web application that can aid in disaster management by providing real-time information about disasters. The system can be integrated with IoT sensors to collect data about the disaster, which can then be analyzed by the system. The web application will allow citizens and authorities to access information about the disaster, such as evacuation routes, emergency services, and relief efforts.

### Smart Agriculture Management System:

The objective of this project is to create a web application that can optimize agriculture management using data analysis and predictive analytics. The system can be integrated with IoT sensors that detect environmental data, such as temperature, humidity, and soil conditions. The web application will allow farmers to make informed decisions about crop management, such as when to plant, irrigate, and fertilize.