Inventory Management System

[IOT Components]

Information and Communication Technology
2023-24
CERTIFICATE

This is to certify that the project entitled **Component Inventory Management system** has been carried out by **Prashhant Sarvaiya(92200133003) , Abhay Padariya(92200133017)** under my guidance in partial fulfillment of the degree of Bachelor Engineering in Information and Communication Technology (4th Semester) of Marwadi University, Rajkot during the academic year 2023-24.

Date : 03-05-2024

Internal Guide   **Head of the Department**

Mr. Shamsagazarzoo Alam   Prof . C. D. Parmar
Subject Co-ordinator   Head of Department ICT
C.T.O. Ally Soft Solutions   Engineering

➢ **Abstract :**
The Inventory Management System for IoT Components is a comprehensive solution designed to streamline the management of various electronic components utilized in IoT projects. The system encompasses both an Admin and User interface, providing distinct functionalities tailored to the needs of each user group. Users can easily browse through available components, request items, and track the status of their requests. On the other hand, administrators have access to advanced features such as component management, user administration, and request approval. The system aims to enhance efficiency, organization, and transparency in managing IoT component inventories.

➢ **Project Description:**
■ **Description:**
The Inventory Management System for IoT Components is divided into two main components: the Userside and the Admin Side.

Userside:
The Userside interface offers a user-friendly platform for individuals to explore available IoT components and request items as needed. Key features include:
Home Page: Displays various categories of components such as Microcontroller, Sensor, Drone Components, and Electronic items through interactive cards.
Component Listing: Users can browse through the list of components within each category and request specific items.
Request Page: Allows users to track the status of their component requests, indicating whether they have been approved or rejected.
Contact Us Page: Provides a means for users to reach out for assistance or inquiries.
About Us Page: Offers information about the project and its creators.
Account Page: Enables users to manage their account settings and preferences.

Admin Side:
The Admin Side interface is tailored for administrators to efficiently manage the inventory system and user requests. Key features include:
Home Page: Presents statistical analysis and insights regarding different aspects of the system.
Component Management: Allows administrators to add, edit, or delete components within categories such as Microcontroller, Sensor, Drone Components, and Electronics.
User Administration: Provides functionality to add or manage user and admin accounts.
Users Page: Displays a comprehensive list of all users registered within the system.
Request Page: Facilitates the approval or rejection of component requests submitted by users.

■ **Needs:**
  ✧ Browser
  ✧ VS code
  ✧ Xampp
  ✧ phplocal database

- ■ **Features:**
  - ◆ User-friendly interface for both users and administrators.
  - ◆ Categorized browsing of IoT components.
  - ◆ Seamless component request process with status tracking.
  - ◆ Efficient component management for administrators, including addition, editing, and deletion.
  - ◆ User and admin account management functionalities.
  - ◆ Transparent request approval system for administrators.
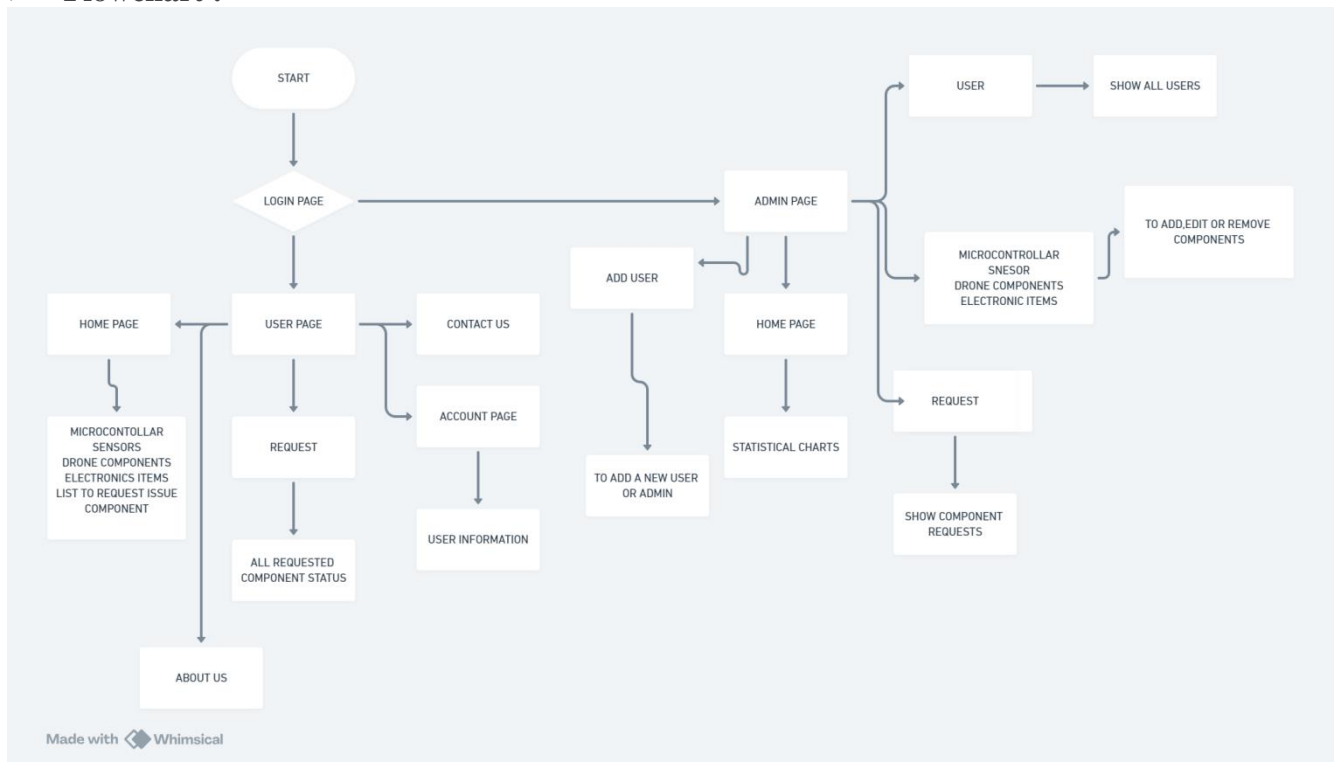 - ◆ Contact and About Us pages for user engagement and information dissemination.

- ■ **Technologies :**
  - ◆ HTML
  - ◆ CSS
  - ◆ JavaScript
  - ◆ PHP
  - ◆ Bootsrap
  - ◆ MySQL

- ■ **Tools:**
  - ◆ VS code
  - ◆ Phpmyadmin

- ➤ **Flowchart :**

➢ **Screenshots:**

LOGIN PAGE :
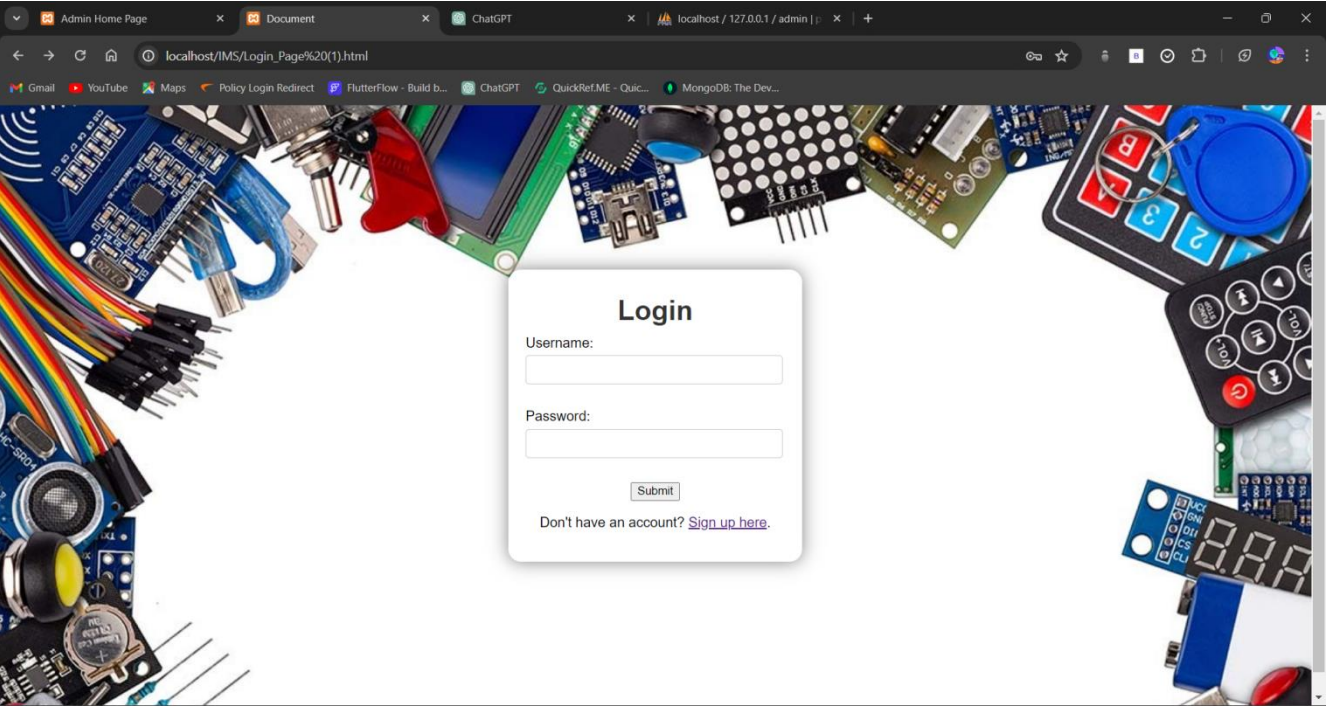
USER HOME PAGE :
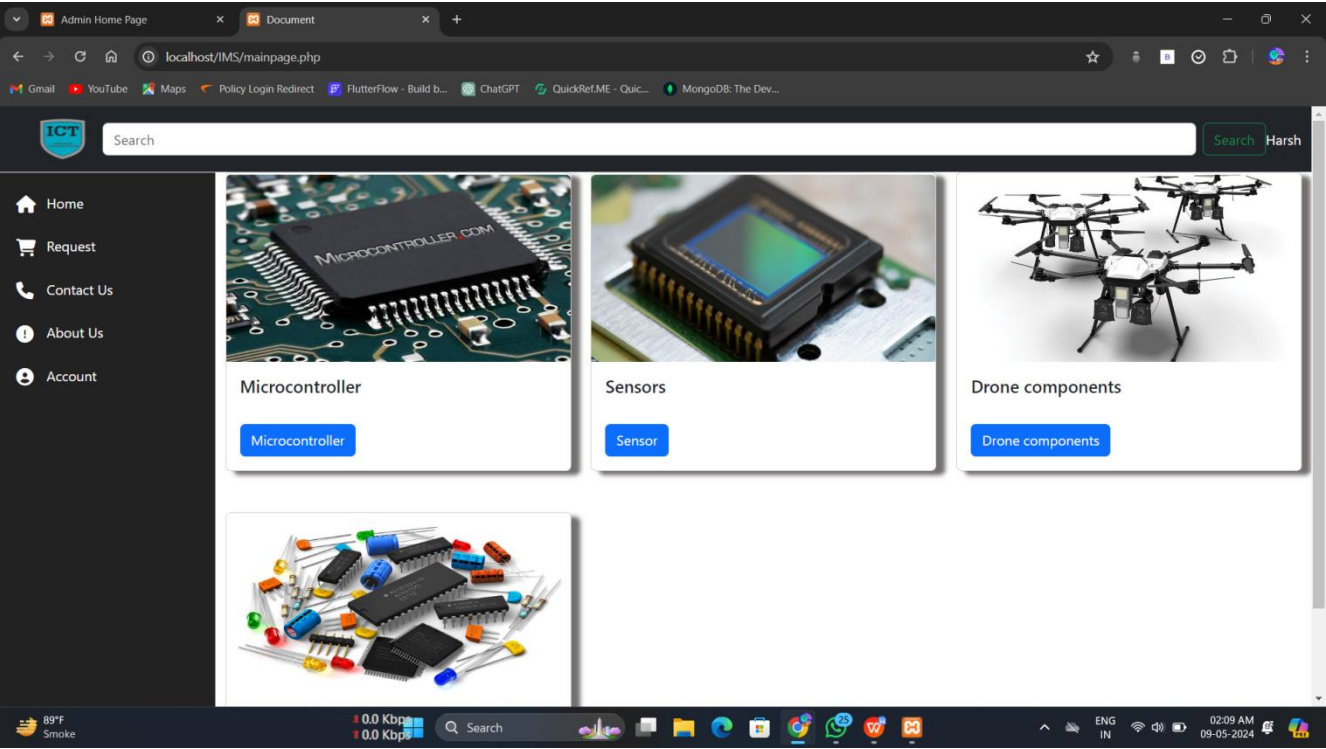
Admin home page :
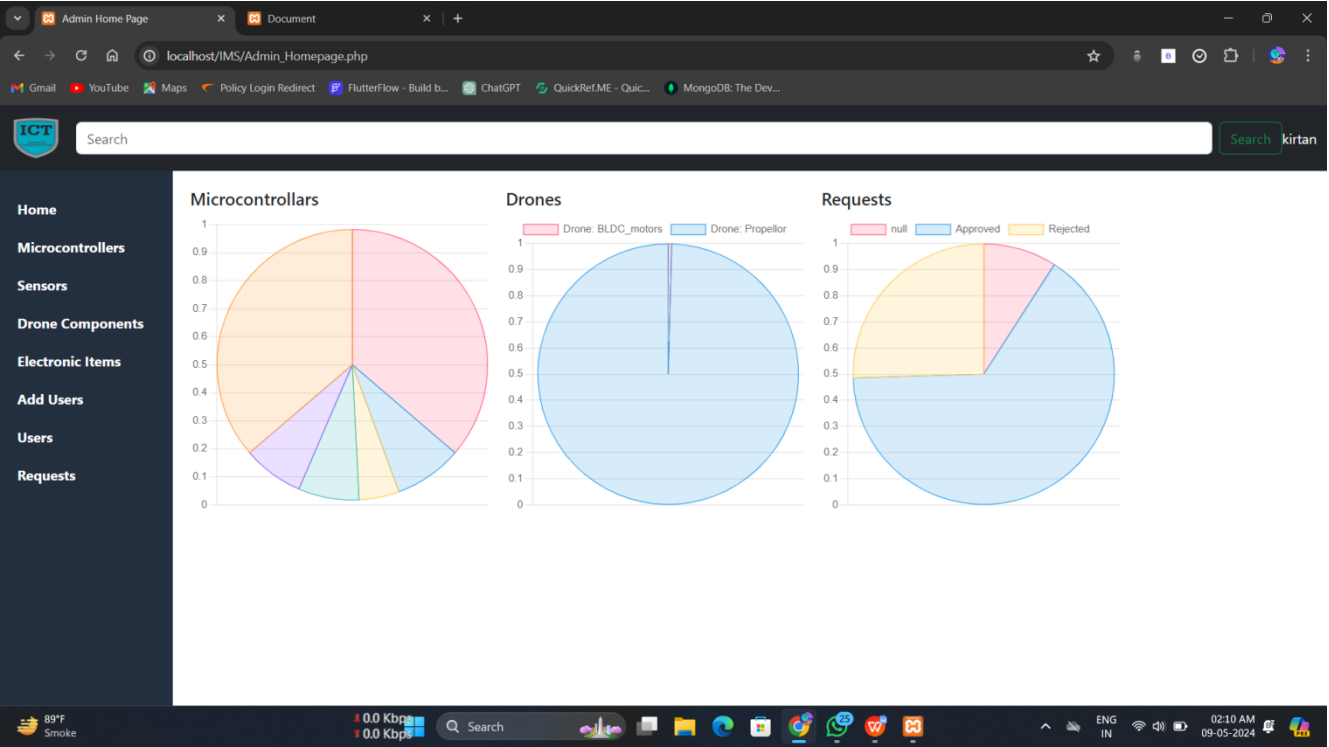
Admin side Microcontrollar page

Home

Microcontrollers

Sensors

Drone Components

Electronic Items

Add Users

Users

Requests

Arduino | 30 | Update

Sr. No.	componet	quantities	Action
1	Arduino	40	✏️ 🗑️
2	Rasberrypie	4	✏️ 🗑️

Home

Microcontrollers

Sensors

Drone Components

Electronic Items

Add Users

Users

Requests

Enter componet | Enter quantities | Add

added Successfully !!!

Sr. No.	componet	quantities	Action
1	Arduino	30	✏️ 🗑️
2	Rasberrypie	4	✏️ 🗑️

Home

Microcontrollers

Sensors

Drone Components

Electronic Items

Add Users

Users

Requests

Enter componet | Enter quantities | Add

deleted successfully!

Sr. No.	componet	quantities	Action
1	Arduino	30	✏️ 🗑️

Admin side Add User page

Admin side User page

Username	Email	Department	Contact	Action
Harsh	harsh@gmail.com	ICT	1234567889	Remove
Ritesh	ritesh@gmail.com	ICT	1234567890	Remove
abhay	abhay@gmail.com	ICT	1234567891	Remove
raj	raj123@gmail.com	IT	1234567789	Remove

localhost says

Are you sure you want to remove this user?

OK   Cancel

Username	Email		Contact	Action
Harsh	harsh@gmail.com	ICT	1234567889	Remove
Ritesh	ritesh@gmail.com	ICT	1234567890	Remove
abhay	abhay@gmail.com	ICT	1234567891	Remove
raj	raj123@gmail.com	IT	1234567789	Remove

Admin side Request page

Home
Microcontrollers
Sensors
Drone Components
Electronic Items
Add Users
Users
Requests

Requested Components

Name	Component	Quantity	Date	Status
abhay	Arduino	2	2024-05-09 09:55:36	✅ Approve ❌ Reject
abhay	Arduino	10	2024-05-09 08:27:22	✅ Approved
abhay	BLDC	1	2024-05-09 08:22:25	✅ Approved
abhay	Rassberrypie	10	2024-05-09 07:54:00	✅ Approved
raj	Rassberrypie	20	2024-05-09 00:56:57	✅ Approved
raj	nano	2	2024-05-09 00:06:42	✅ Approved
Ritesh	nano	2	2024-05-09 00:02:51	✅ Approved
Ritesh	nano	2	2024-05-08 23:56:46	❌ Rejected
Ritesh	Rassberrypie	1	2024-05-08 23:54:30	✅ Approved
Harsh	Rassberrypie	1	2024-05-08 23:48:32	❌ Rejected
Harsh	UltraSonic	5	2024-05-08 23:45:08	❌ Rejected
Harsh	UltraSonic	1	2024-05-08 23:44:41	❌ Rejected
Harsh	Rassberrypie	12	2024-05-08 23:33:09	❌ Rejected

User side Microcontrollar page

Sr. No.	Component	Quantities	Action
1	Arduino	30	Request
2	Rasberrypie	10	Request

Search | Search | abhay

localhost says

Enter quantity for Arduino:

2

OK   Cancel

Sr. No.	Component		Action
1	Arduino		Request
2	Rasberrypie		Request

| Sr. No.	Component		Action
1	Arduino	30	Request
2	Rasberrypie	10	Request

localhost says

Request submitted successfully.

OK

User side Request page

- Home
- Request
- Contact Us
- About Us
- Account

Requested Components

Name	Component	Quantity	Date	Status
abhay	Rassberrypie	10	2024-05-09 07:54:00	Approved
abhay	BLDC	1	2024-05-09 08:22:25	Approved
abhay	Arduino	10	2024-05-09 08:27:22	Approved
abhay	Arduino	2	2024-05-09 09:55:36	Approved

User side Contact US page

Contact Us

Your Name

Your Email

Message

Submit

User side About US page

User side Account page