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| **logo** | **B.V.V.S**  **Basaveshwar Engineering College, Bagalkote**  **Department of Computer Applications (MCA)**  **3rd Semester 2024-2025**  **Social Project (23PCASynopsis Report** |

**Last Date of Submission: 29.03.2025**

**Submitted On:**

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| **For Staff Use Only:** | | |
| **Status of Title** | **Name of the Guide & Designation** | **Name of the Coordinator** |
| 🞎 Accepted  🞎 Rejected | Prof. M. H. Shirur  Assistant Professor | Prof. Sangamesh M. Magi  Assistant Professor |

1. **Project Title:**

Tentative:

Finalized (Guide will write):

**2. Details of the Group Members:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
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**3. Project Overview / Background:**

**Abstract:**

The Cotton Commission Agent System is a web-based platform designed to streamline the cotton trading process between farmers, commission agents, and buyers such as textile mills and wholesalers. The system ensures efficient, transparent, and secure transactions by digitizing cotton listings, order management, and payment handling. While commission agents negotiate trades and oversee quality control, the system requires all payments to be manually approved by the admin before order processing. Shipment tracking is handled manually by the farmer. This approach maintains security and transparency, while supporting rural digital inclusion.

**Introduction:**

India is one of the largest cotton producers, yet cotton farmers often face challenges in connecting with the right buyers and getting fair prices. Middlemen, or commission agents, play a significant role in facilitating this trade, but the process is traditionally manual, time-consuming, and prone to miscommunication. The Cotton Commission Agent System digitizes this workflow, enabling real-time cotton listing, negotiation, admin-verified payments, and order tracking — creating a seamless experience for all stakeholders, especially in rural and agricultural sectors.

**Objectives:**

· Digitize the cotton trading process between farmers, commission agents, and buyers.

· Enable farmers to list cotton offers with quality, price, and quantity details.

· Facilitate commission agents in purchasing, listing, and reselling cotton to buyers.

· Provide a platform for buyers to search, place orders, and upload payment proof.

· Ensure admin-verified payment approval for order confirmation.

· Allow farmers to manually update order tracking.

· Generate sales, payment, and commission reports for tracking and transparency.

**Problem Statement:**   
Cotton trading in traditional markets suffers from inefficiencies such as lack of transparency in pricing, delayed payments, poor inventory tracking, and logistic challenges. A unified digital solution is needed where farmers can list their produce, agents can manage procurement and resale, and buyers can place and track orders — all with secure, admin-controlled payments and a basic but transparent logistics update system.

**Block Diagram/Project Flowchart with Short Explanation:** **Flowchart Overview:**

**[Farmer Registers & Lists Cotton]**  
The farmer registers on the platform and lists the available cotton with details like quality, quantity, and price.

**[Agent Buys Cotton → Pays Farmer]**  
The commission agent reviews the cotton listings, negotiates the price with the farmer, and then buys the cotton, paying the farmer.

**[Agent Lists Cotton for Buyers]**  
The agent lists the purchased cotton on the platform for buyers (such as textile mills or wholesalers) to browse and place orders.

**[Buyer Searches & Places Order]**  
The buyer searches for cotton based on the available listings, selects the type, and places an order specifying the quantity and quality needed.

**[Buyer Uploads Payment Proof]**  
Once the buyer places an order, they upload proof of payment for the cotton they have purchased.

**[Admin Verifies & Approves Payment]**  
The admin verifies the payment proof uploaded by the buyer and approves it for further processing.

**[Agent Ships Cotton to Buyer]**  
After the payment is confirmed by the admin, the agent arranges for the shipment of the cotton from the agent's warehouse or the farmer's location to the buyer.

**[Buyer Confirms Delivery]**  
Once the buyer receives the cotton, they confirm the delivery by ensuring the quantity and quality match the order.

**[Agent Gets Commission]**  
The commission agent receives their commission on the cotton sale for facilitating the transaction, including the shipment.

**[Reports & Records Generated]**  
The system generates reports on the sale, payment, commission, and delivery status for transparency and record-keeping.

**Benefits to Society:**

· **Empowers Farmers:** Direct platform access improves profitability and visibility.

· **Secure Payments:** Admin-approved payment flow reduces fraud and disputes.

· **Digital Inclusion:** Introduces farmers and agents to digital platforms.

· **Efficient Transactions:** Speeds up negotiation, order placement, and communication.

· **Transparency:** Tracks every trade and payment with audit trails and reports.

1. **Project requirements:**

## ****Hardware Requirements****

* **Processor :** Intel i5 or higher
* **RAM :** 4GB or more
* **Storage :** 20GB minimum

## ****Software Requirements****

* **Operating System :**  Windows/Linux/MacOS
* **Backend :**  PHP
* **Frontend :**  HTML, CSS, JavaScript, Bootstrap
* **Database :**  MySQL
* **Web Server :** XAMPP

**5. References:**

**Client Consultation:**

* Contacted **Shri Siddaroodha Traders** to understand the cotton trading process, market challenges, and pricing factors.

Web resouce:

* <https://chatgpt.com/c/67e6a5d7-b970-8012-89a3-dc1eb420af84>
* chrome-extension://kdpelmjpfafjppnhbloffcjpeomlnpah/https://www.cottonworks.com/wp-content/uploads/2017/11/Using-the-Cotton-Management-System.pdf
* <https://indiantextilejournal.com/cotton-management-system-process-control-a-case-study/>

**Signature of Guide Signature of Coordinator Signature of HoD**