Title: E-Agro Services

Scope:

This system will helps and allows the owner of the agro service or a trader of the vegetable market to maintain their business records.This system will contain the all data about the purchases items from farmers,the sells of that items which purchased from farmers,records about those consignees which they purchased those items,records about those transports and many more things will contain this system.

Requirements:

1.Functional Requirements:

* This system will be accessible for the owner, their employees, registered farmers, consignees and the transport agencies.
* The owner and their employees having the all freedom to use this applications functionality like registering farmers, consignees, transport agencies updating, deleting, inserting and many more things will be accessible.
* The users will be accessible for viewing their personal data of their business with that particular owner.

(I)Owner:

* Owner having all access of system.
* Only owner can register employee.
* Dashboard will provide information using graphs, indicators as well as Grid data prestation.

(II). Employee:

* The employee can manage the registrations of the farmers, consignees and transport agencies.
* The employee manages the insertion, modification and deletion of the records like purchases, sells, billings and many more.
* Employee will be managed to registering the new slips of purchases from farmer from anywhere like farms, farmhouses, etc.
* The employee can modify the slips of purchase items and sold items if there having some wrong data insertion.
* If the farmer has trouble to sold the item to them or if the consignee has to cancel the order because of some reasons then the employee can modify or remove those inserted data.
* If the farmer has to cancel an order of purchasing pesticides, seeds or any other thing then the employee can modify it from records or remove from records.
* Employee can update, delete the item, stock of pesticides, seeds, fertilizers if it is out of stock or not available.
* Employee can add new products to the stock available.
* Employee can manage the vehicles of those transport agencies to transport the items to the consignees.

(III). Farmer:

* Only registered farmers can log into the system.
* Farmer can modify his profile.
* Registered customer will be able to get helpline contact no in case of emergency.
* Farmer can access their own details only.
* Farmer can see his history of purchase items and sell items.
* Farmer can see his balance.
* Farmer can see his revenue of his particular item or can see his revenue of year wise sells of items.

(IV). Consignee:

* Only registered consignees can log into the system.
* Consignee can modify his profile.
* Registered consignee will be able to get helpline contact no in case of emergency.
* Consignee can access their own details only.
* Consignee can see his revenue of his particular item or can see his year wise purchases items.

(V). Transport:

* Only registered transport agencies can log into the system.
* Transport agency can modify his profile.
* Registered transport agency will be able to get helpline contact no in case of emergency.
* Transport agency can access their own details only.
* Transport can see his revenue of his particular vehicle or can see his year wise history.

**2.NonFunctionalRequirements:**

**(I). Security:**

* Only Admin or owner of the E-Argo Services will see all records.
* Only Admin should be able to modify their own personal details or farmers details.
* And farmer can login with their user id or password. And only Farmers can access their own details.
* No any farmers can access other farmers details.
* Farmer Can Access their own details like purchase details or Sell details.
* System will provide access to the content, operations using Role based security (Authorization) (Permissions based on Role)

**(II). Reliability:**

* The system will back up student data regularly and recover in a short time duration to keep the admission system operational, continuous updates are maintained through email and continuous administration is done to keep contact with students.
* During peak hours system will maintain the same user experience by managing load balancing.

**(III).Availability :**

* Uptime: 24\* 7 available
* 99.999%

**(IV).Maintainability:**

* A CDAC database software will be used to maintain System Data Persistence. A readymade Web Server will be installed to host the online CDAC admission portal (Web Site) to manage server capabilities.IT operations team will easily monitor and configure the System using Administrative tools provided by Servers. A separate environment will be maintained for a system for isolation in production, testing, and development

**(V).Portability:**

* The system will provide a portable User Interface ( HTML, CSS, ReactJS) through which users will be able to access the online Cdac Admission portal.
* The system can be deployed to a single server, multi-server, to any OS, Cloud (Azure or AWS or GCP).

**(VI).Accessibility:**

* Only registered students will be able to log in after authentication.

**(VII).Durability:**

* The system will maintain student details.
* The system will implement backup and recovery for retaining student data, and their fee details over time.

**(VIII).Efficiency:**

* On CCAT round result date, the maximum number of students will access their login page and must see their results with the same response time.
* The system will be able to manage all transactions in isolation.

**(IX).Modularity:**

* The system will be designed and developed using reusable, independent or dependent business scenarios in the form of modules
* These modules will be loosely coupled and highly cohesive.
* The system will contain CRM, Inventory, shopping cart, order processing, payment processing, Delivery module, membership and Roles management modules.

**(X).Scalability:**

* The system will be able to provide a consistent user experience to students as well as visitors irrespective of load.

**(XI).Safety:**

* The student login page will be secure from malicious attacks, and fishing.
* CDAC education Processes are protected from the outside with proper firewall configuration.
* CDAC education processes be always kept updated with the latest anti-virus software.