Anganwadi Food Stocking And Distribution System

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Abstract- *This paper presents about the distribution of nutritious food to the children and pregnant and lactating women in Anganwadis provided by the Government of Karnataka based on their attendance. It enables the Decision making Authorities to monitor the proper distribution of the required food stock to the respective Anganwadis*

Keywords*- Anganwadi Center (AWC), Anganwadi Worker (AWW), Integrated Child Development Scheme (ICDS).*

I. INTRODUCTION

ICDS initiated in 1975 caters to about 8crore children in India. The main objective of the scheme is to increase the nutritional and health status of children between 0-6 yrs. ICDS Scheme was started in Karnataka on 2nd October 1975 with a pilot project at T.Narasipura in Mysore district with just 100 Anganwadi centers. Since then, the programme has been expanded to cover all the revenue taluks and urban areas in the state.

"Anganwadi Food Stocking and Distribution System" is a browser-based web application with a companion app for Android. The user is provided with a database where the information is stored and retrieved when required. The Anganwadi can keep track of information of every child and pregnant and lactating women and distribution of food according to their attendance which is managed by the AWW. These solutions are aimed to reduce the manual operations and record keeping and to enhance the efficiency in operations saving the cost and time.

II. LITERATURE SURVEY

Manual systems put pressure on AWW to be correct in all details of their work at all times, the problem being that they aren't perfect. All operations of Anganwadi are carried out manually such as attendance, stock maintenance and details of food distributed to the respective. These present operations are not performed efficiently. With manual systems the level of service is dependent on individuals and this puts a requirement on management to run training continuously for AWW to keep them motivated and to ensure they are following the correct procedures.

There exist some problems in the present manual system. Some of them are as follows:-

- **Lot of Paper work:-**

  At present working system, report of attendance, food distribution and stock management are maintained manually in registers which requires more paper.

- **Time consuming:-**

  Maintaining records in registers takes most of the time of AWW.

- **Not Secured:-**

  Maintaining paper records of attendance, distribution of food and stock maintenance is challenging job for AWW. There may be chances of the information to be lost or stolen.

- **Usage:-**

  Authorities of Anganwadi cannot monitor all the reports every day. Retrieving or Searching records from registers is a difficult job.

III. OBJECTIVE

We propose to develop browser-based web application where the Anganwadi can keep track of every child, pregnant and lactating women's information and to manage distribution of food to them according to their attendance on daily basis.

The system also provides companion app for Android through which the user can track the Anganwadi centers on map.

- The main objective of this web application is to make working process flexible.
- To automate the coordinating operations in Anganwadi.
- To automate the record keeping, reporting and indenting of children, pregnant and lactating women's information management.

- Providing required information of Anganwadi centers through web application.
- Easy to manage food distribution and stock report.
- Tracking the Anganwadi centers and finding the nearest path to it using the Android companion app.

IV. SYSTEM DESIGN DESCRIPTION

Anganwadi centers provide their community members such as children within the age of 3 to 6 years old, pregnant women and lactating mothers with a healthy dietary food on daily basis according to the amount specified by the Government. The system also maintains the attendance of the beneficiaries of the services. It also maintains the stock of the food items. The user and administrator can browse the items easily. For example, in the stock database, the food name, the available stock and issued stock will be displayed. This allows the administrators to see if the stock is required to be filled.

Administrators can manage the stocks of the AWCs by issuing or supplying the stock whenever required. The fields for the stock table are the food name, the type of the food (perishable or non-perishable), date of opening stock and stock issued, quantity issued and remaining quantity in the stock as shown in Figure1.

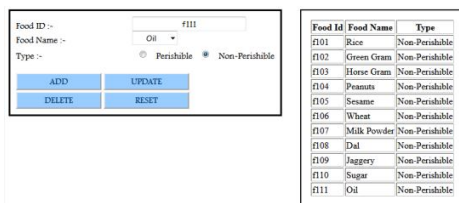
Figure 1:- Food Stock Page

Figure 2:- Food List Page

Figure 2 is a screen shot of food items entry page where the list is useful for the administrator to maintain the different food items which will be provided to AWCs.

Figure 3:- Food Menu Page

Figure 3 represents in brief on how much food an AWCs should provide to children, pregnant women and lactating mothers and how many days in a week.

V. MODULES

Admin:-

1. **Entry of Anganwadi Center Record:**

   o **Introduction:** Stores the details of Anganwadi Centers.
   o **Input:** SrNo, Address, Center Name, Worker, Helper, Starting Year and Contact.
   o **Processing:** The information of Center is stored in centers table of Anganwadi database.
   o **Output:** This information helps to store particular center's information. Admin can view all the information related to center.

2. **Entry of Stock Management Record:**

   o **Introduction:** Stores the Stock details.
   o **Input:** SrNo, Food_Name, Unit, Price, Perishable Indicator and Quantity.
   o **Processing:** The food stock is stored in stock table of Anganwadi database.
   o **Output:** This information helps to store the stock details. Admin can view all the stock information and delete the particular food stock detail from the table.

3. **Entry of Center Tracking:**

   o **Introduction:** Stores the location of the center.
   o **Input:** Cid, Center Name, Address, Position.
   o **Processing:** The position of each center is located and stored in the Center_location table of Anganwadi database.
   o **Output:** This information helps to store the location information of each center, which will help the supervisors to locate the centers.

4. **Entry of Anganwadi Worker and Helper Detail:**

- o **Introduction:** Details of the Worker and Helper of Anganwadi is stored.
- o **Input:** ENo, Ename, Center_Id, Canter_Name, Type, Address, Contact.
- o **Processing:** The information is stored in employee table in Anganwadi database.
- o **Output:** This information helps to store or retrieve the information of worker and helper of Anganwadi Centers.

Anganwadi Worker:-

1. **Entry of Children Admission Record:**

- o **Introduction:** Stores the details of Children provided during Admission.
- o **Input:** SrNo, Family_Id, Members, Name, BirthDate, Gender, Caste, Handicapped, Joining_Year.
- o **Processing:** The information of children's admission is stored in children table of Anganwadi database.
- o **Output:** This information helps to store, retrieve or delete the details of children.

2. **Entry of Pregnant/Lactating Women:**

- o **Introduction:** Stores the details of pregnant/lactating women.
- o **Input:** SrNo, FamilyID, Members, Name, Age, Caste, Handicapped, Type.
- o **Processing:** Information about pregnant or lactating women is stored in plw_records table of Anganwadi database.
- o **Output:** This information helps to store the pregnant/lactating women information. Admin can view all the information and delete the particular information from the table.

VI. CONCLUSION

Computerization has enabled implementation of a good system for service delivery, monitoring and supervision. The major advantage of computerization has been in saving of time of Anganwadi workers in record keeping and report generation.

To reduce the work load of Anganwadi workers and improve the efficiency of the program of Anganwadis proper assistance should be provided.

Proper assistance should be given to Anganwadi teachers to reduce their work load and improve the efficiency of the supplementary food programme of Anganwadis.

VII. FUTURE ENHANCEMENTS

This project has wide scope in future. This website is designed in such a way that any future enhancements can be done with ease. System can be updated in the near future as and when new requirement arises, as it is very flexible in terms of expansion.

Future enhancements are as follows:-

- In future, we can upload pictures of children who are present in the Angawadi and the administrator can view it in cloud.
- The system will also provide tracking location of Anganwadi centers on map which uses Global Positioning System (GPS). This will save the time of Supervisors who will visit Anganwadi center for inspection.

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