Tribal School Monitoring System

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Abstract:-There are various Tribal Schools all over and also government is giving them appropriate facilities to ensure quality education must be provided to the students there. Various facilities like Mid-Day meal, proper sanitization, cleanliness in schools, playground condition, and kitchen condition. Monitoring of schools is much more required to ensure the proper working of facilities used in the school. With the help of image processing and based on some data a tribal school monitoring application is developed in this project. Manual counting of schools and inspection of schools by various officers is time consuming, thus to overcome this issue this project is developed. In this project we are developing a system which monitors the tribal school of a particular region thoroughly i.e. in all fields like sanitization, cleanliness, food, etc. Also image process is added in order to validate the current condition of school. This monitoring system application hereby reduces the work load of officers to keep a keen vision on all activities. As in this era of digitization this application would be really useful for schools located in tribal region.

Keywords:-Front End: XML, Java,. Back End: PHP, MY-SQL, CSS, HTML, JavaScript., Application Requirement: Ide-Sublime, FileZila.

I. INTRODUCTION

The Government provides various facilities to the tribal schools such as mid-day meal, Proper sanitization, Cleanliness in school, Kitchen condition, and playground condition. This monitoring system application has been developed in order to check whether the facilities provided by the government are used in proper manner.

In many schools it has been seen that the students do not get proper facilities that has been provided by the Government and the funds are wasted (e.g. In the season of crop harvesting many students get busy with that work so in this case the government need not send the funds). For officers going personally to each school for checking the condition is not possible on the regular basis. Therefore, this application is design. Here a front end android application will be provided to the various inspecting officers were they have to choose the division followed by taluka and followed by school, then after this they have to school. Then there are certain set of questions predesigned by the Tribal Department, the answers to these questions will be in either of the three formats they are, rating out five star, in the format yes or no, and comments and with certain questions they need to click photos and submit them along with answers. In this way the officer will inspect the school and will answer the questions and submit his/her answers. After the submission of answers this data will go into the database and will get stored. Then people in Tribal Department will be checking this data through a website, here they will select division followed by taluka followed by School and then through a login ID password they will get access to the data in database of that particular school for the selected month or year by him. The data shown to him will be in tabular format .With the help of Image processing and the data analysis of that particular data will be done and rating will be given to school and further development notice will be provided to schools if needed according to analysis .This application gives an advantage of monitoring the schools on regular basis. This paper presents the approach for how the monitor the schools on regular basis.

II. OBJECTIVE

The various objective of the project is:

- The Tribal Department will be able to monitor the schools properly.
- All the facilities will be provided appropriately to the students.
- The fund required will exactly be known thus cost cutting can be achieved.
- Literacy rate can be increased.
- Cleanliness and proper hygienic food can help in decreasing diseases.
- Overall growth of the students can be achieved.

III.   PROPOSED APPROACH

On the basis of data available the Tribal Schools did not get all the funds, facilities that are provided to them thus analyzing these problems as well as the facilities the set of questions are been defined by the Tribal Department. These questions are defined after surveying Tribal Schools and every aspect that is facilities, fund provided to them by the government and the problem they face due to lack of monitoring. The inspection officers simply have to answer these set of questions according to his/her evaluation for that particular school. And people from Tribal Department through a website will analyze the data and will give grades to them and the school will be notified about the development if any.

This is overall workflow of the project which will be followed by the inspection officer who is inspecting the school and the people at the Tribal Department who are responsible for the analysis and providing results further.

A.   Proposed Scheme

Below is the flowchart which shows the overall working of the project. Here the workflow is right from selecting division followed by taluka followed school and answering the set of questions and submitting them by the inspection officer till the People in Tribal Department select division followed by taluka followed by School and then will login through login id and password and will analyze the data according to month or year selected.
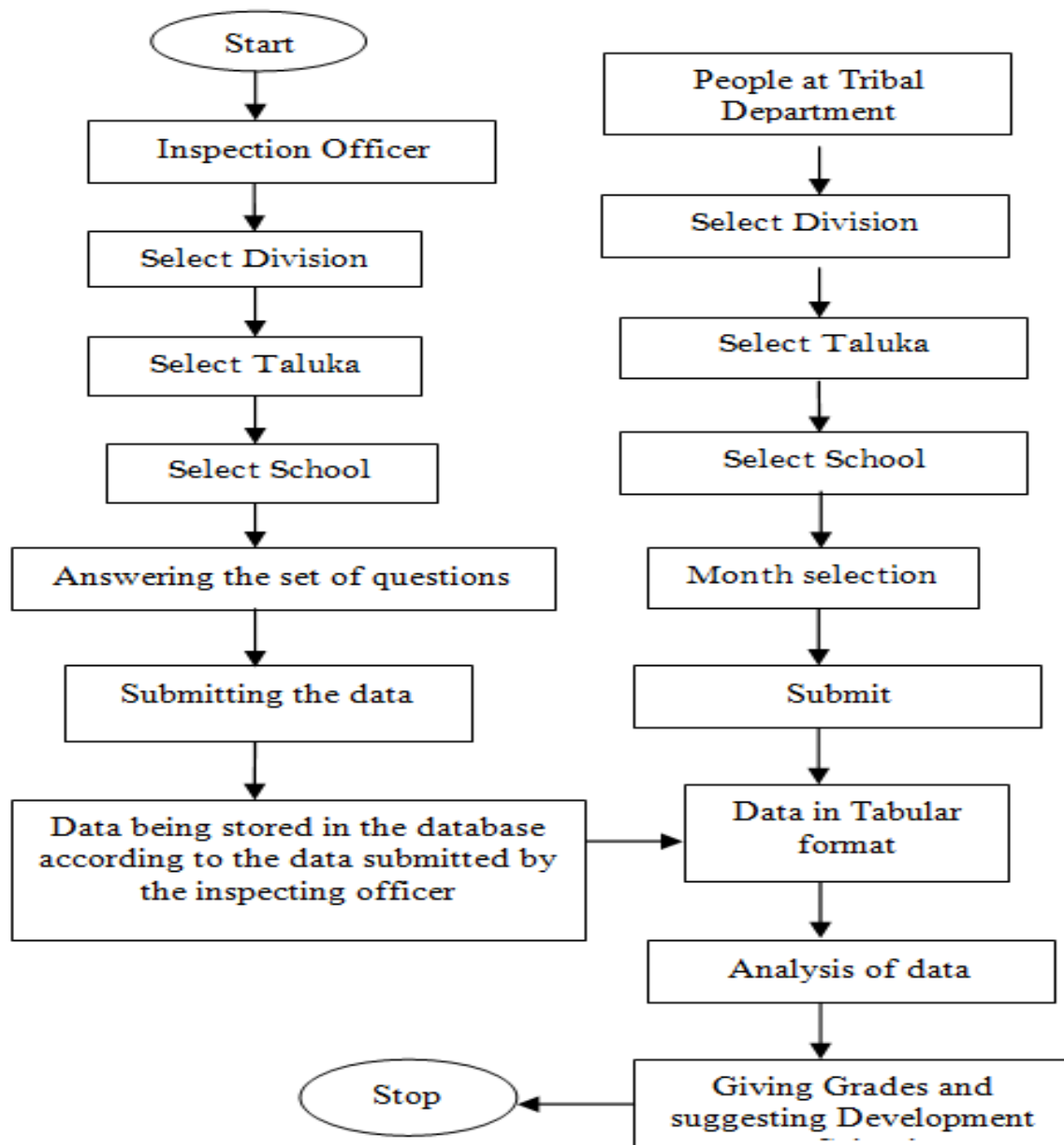

Figure 1: Systematic Flow of Proposed Work

B. Procedure is as Follows

- Here in a android application the Inspection Officer will login then first division selected followed by its respective taluka's and the followed by a school.
- Then set of questions are answered. These questions are divided into three parts.
- First type is rating type out five.
- Second type is the yes or no.
- Third is the comment.
- In some question Picture is taken and submitted along with the answers
- Along with database and image processing it is stored in the database.
- People at Tribal department through a website will study the data.
- Here also first division selected followed by its respective taluka's and the followed by a school.
- Data in tabular format from the database is shown of selected month or year.
- Analysis of data is done.
- Grades and suggestions if any are given to a particular school.

IV.   FUTURE SCOPE

- With the help of this project Tribal Department can monitor on the Tribal Schools on regular basis thus in coming years the schools will have great development.
- Appropriate facilities can be provided to the students which will indirectly increase attendance in the school
- This will lead to increase in literacy rate.
- Diseases in the area will get reduced due to cleanliness.
- This will lead more and more student to school which will help overall growth of Tribal Department and Tribal School.
- This application can be used in hospitals for proper maintenance, like patient facility supervision, medicine department supervision.
- This application can be used in colleges for proper maintenance, like student facility supervision, administrative department supervision.

V.   CONCLUSION

- With the help of this project Tribal Department can monitor on the Tribal Schools on regular basis.
- Appropriate facilities can be provided to the students.
- With the help of Technology overall growth of Tribal Schools and students there is achieved.

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