Resource Management System (Atlas)

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Abstract: The definition of a Resource Management System is to manage and make best use of the available resources to increase productivity and to reduce cost in building any product .It is a combination of human resource , equipment and information technology such that time , efforts and money can be saved and make the best use of skilled but non working employees as well as using machines and equipment which are not in use .

Keywords: Productivity, Equipment , Information Technology , Skilled , Non-working Employees and Machine.

I Introduction

The project focuses on the management of the data collected from various labs and equipment present in the lab .
RMS will basically build to reduce the efforts of students and cost of the project by using the available equipment and knowledge of our teacher and their assistant , in this way the product is made through the available equipment and knowledge and will generate maximum productivity.
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II Problem Formulation

The best part of this project is that it does not require any complex formula or approach , this system is a simple web-based system which will work on the real time data sets which are also uploaded by student or teacher and every change in data can be seen by everyone connected to it .

A.   Subsection

Our aim is to build a system in such a way that the equipment available in college can be accessed and used by the students for building projects under the supervision of technicians of respected equipment and machinery.

Also the student can check the details and exact working (functionality) of the equipment directly on the inventory section. All this can be done online which will in short save time for both the students and the teachers and further reduce the work done by them manually .

B.   Sub-subsection

This system will be a web-based system which will work in real time . It will have different sections for teachers and students but will have some same functionalities like register, login , logout , profile ,etc. The other functionalities of students section and teachers section are as follows :

Student's Section This section will have a window which will show detailed information of each of the equipment present in the labs . Apart from that it will also have a request window which will allow students to check availability of equipment and will also allow them to book a slot by sending a request to a particular lab assistant.

Teacher's Section Unlike student's section it will have a request window where all the requests of various students are displayed and teacher can allot a particular time to a specific student according to him or he can also deny or make that request on hold . This section will also contain a window of detailed description of equipment but along with this it will also have the option of adding or removing the equipment temporarily or permanently in case of any repair or replacement , i.e. lab assistants will have full access to modify inventory on a regular basis .

C. Footnotes

Functionality : Here it means all the different capabilities that the students and teachers section has , or a set of actions they can perform.

III Methodology

A methodology study is an analysis of how successfully a system can be implemented, accounting for factors that affect it such as economic, technical, and operational factors to determine its potential positive and negative outcomes before investing a considerable amount of time and money into it.

This project will be developed using following modules:

STAFF: The Staff which can perform the following activities:
• Login.
• Add Equipment with all the details.
• Update inventory
• Manage availability status
• Database backup
• Can view and edit the equipment details.
• Can view the student's details .
•Logout.
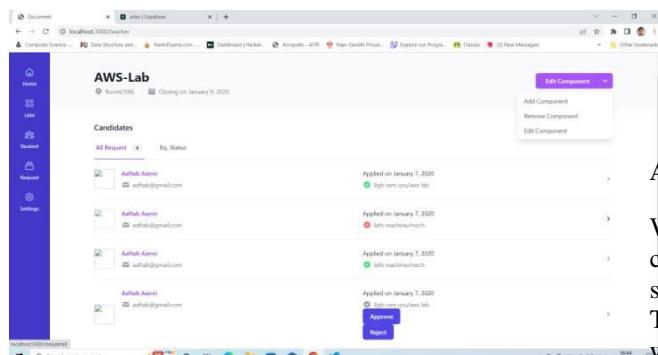
Fig 1. Staff home page

STUDENTS: The student module can perform the following task:
•Can view the equipment details.
•Can view the availability of equipment.
•Can request for using a particular equipment
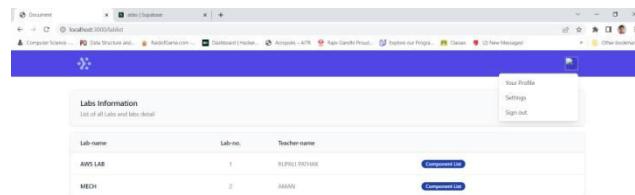
Fig 2. Student section

IV Conclusions

- Students can see the equipment details online and can select the perfect equipment for their study or work.
- This system allows students to request directly without writing an application to every head faculty of that particular lab.
- This system will reduce the painful work of managing the data on papers for the department and reduce time consuming work for students

Acknowledgments

References

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