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Advanced Event Attendance Monitoring System

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Abstract*: The main objective of developing this system is to automate the process of providing attendance to the students who are a part of the event. Here, the student's work gets easier. There is no more wandering for permissions. This system follows the college rules and it is more reliable. Student can view his details. He can track his permission details. He can also view at any point of time. This would reduce the present pen and paper based manual method of taking attendance. Replacing the old traditional method, this system will reduce the use of piles of paper and hardcopies. It will save time, reduces the amount of manual work done by students and teachers. This is replaced by a computer based system developed using Servicenow. Students fill their details in the form by logging into the portal and some validations are done while filling the form using client scripts and ui policies. Here all the process is automated using workflows. Event managers, Head of the Department and Class Incharge analyse the students details which are maintained in the system. Thus, faculty provide attendance.

***Keywords* : Service Now, Portal, Client scripts, UI Policies, Workflow, Record, Analysis, Attendance..**

I. INTRODUCTION

Attendance is important to every organization. In many Engineering colleges a minimum percentage of class attendance is required. [1]In our college only 9 days of attendance is provided to a student who organizes and participates in events like Samyak (National level techno fest), Ignite, Spark, Fem flare, Yantrik and other college fests. Events can't be done automatically, they need to be planned and implemented by a team. Team include students who work as core, coordinator, co-coordinator, organizer, need to work on conducting workshops, hackathon, technical and non-technical events, games, pro-show, cultural, and providing accommodations before the event to make the event Successful. Every student participate in events to explore their knowledge, it's a platform where they can showcase their skills and to take a break and enjoy in between the academics.[2]

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But managing student attendance during lecture periods has become a difficult challenge. Students need to prove that they have participated in a particular event for providing attendance. The process of recording attendance for students is in the form of hardcopy papers and the system is manually done. This is a difficult task for faculty and students at the end of the semester. In traditional method there are some limitations like missing or damage to hardcopies.

For the above stated problem, we developed an application i.e., Event Attendance Management System using Service Now tool. [3]We used Service Now as it is simple, Powerful and here we can build the applications within less span of time which are more reliable and we can automate the process and also we can debug it . In the existing system, students need to fill the form, by logging into our application portal, which includes their details like event names and participation dates of the event. While filling the details in the form some validations are done. These validations are done by using client scripts and UI Policies. As soon as the form is submitted the workflow gets started. This request will be forwarded to their respective event manager and if he approves then it will be forwarded to HOD sir of their respective department. If HOD sir approves then it will be forwarded to their respective Class Incharge. Thus, Class Incharge forwards to the respective faculties and they will provide attendance to the student on the respective dates mentioned in the form.

Objectives

-To automate the attendance system
-To provide reliable record maintenance
-To view and track details
-To ease the work of the student

II. EXISTING SYSTEM

In the existing system, the process of recording attendance for students is in the form of hardcopy papers. Students need to write a letter regarding attendance and get it signed by their respective event manager followed by the head of the department.This is a difficult task for faculty and students at the end of the semester. In traditional method, there are some limitations like missing or damage to hardcopies.[4] The human effort is more here.

III. PROPOSED SYSTEM

[10]In order to overcome the drawbacks of the existing system, we developed a web application using servicenow tool. This application is built for automating the processing of attendance with less human effort.[5] In this application, the student log into the portal after completing his sign up procedures. The student is later directed to a form which contain general details of events and the dates of his participation.[8][9]

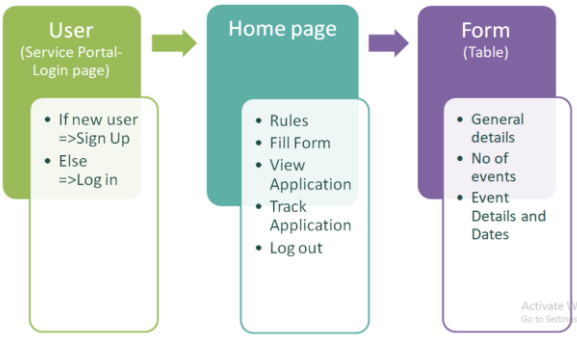
After his submission, his request is forwarded to the event manager of the respective event, the head of the department and class incharge respectively. If all the approvals are done successfully, the student is provided with attendance.

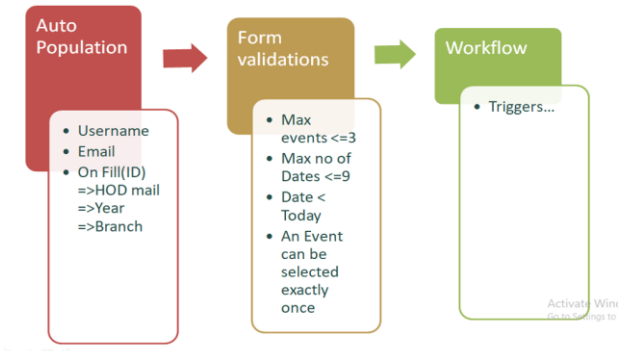
The main intention of developing this application is to computerize the existing system.

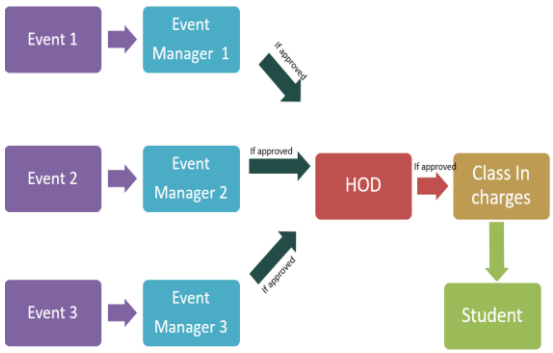
Advantages

- No piles of papers or hard copies.
- Fully automated.
- Reduce the manual works.
- Friendly user interface.
- Reliable.
- Make the users work easy.
- Trackable.

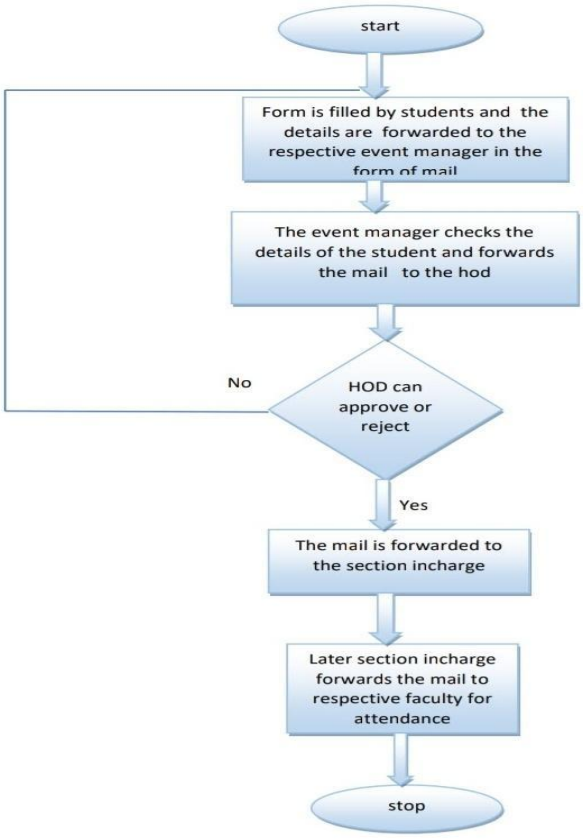
IV. PROCESS FLOW





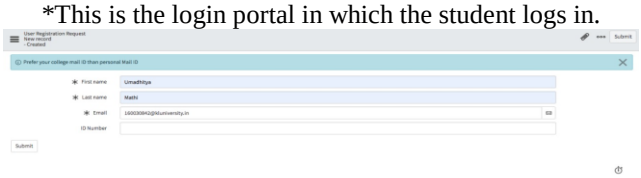


V. FLOW DESIGN



VI. RESULTS

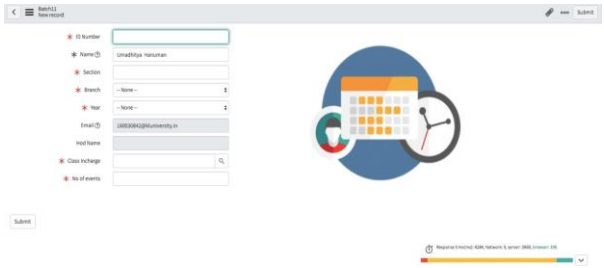
*This is the login portal in which the student logs in.



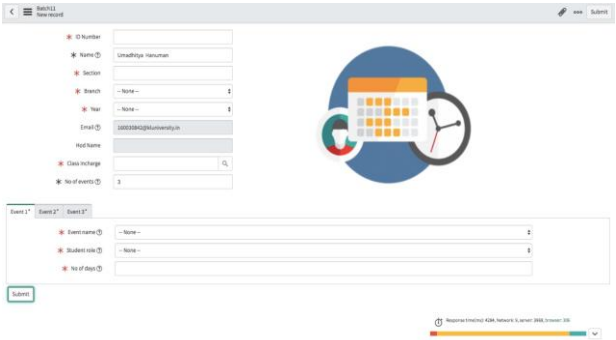
*Before the student logs in he has to first sign up to create an account.

*After signing up, student logs into the portal.

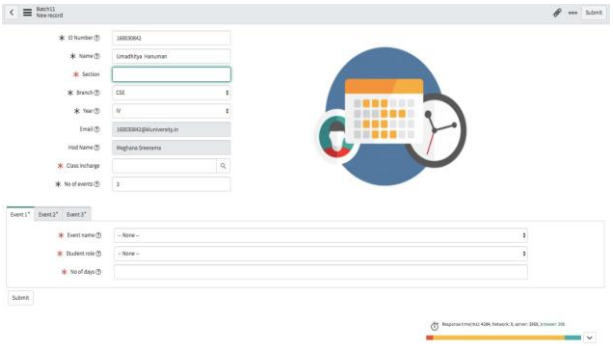
*As the student logs in, the homepage gets displayed displaying the rules.



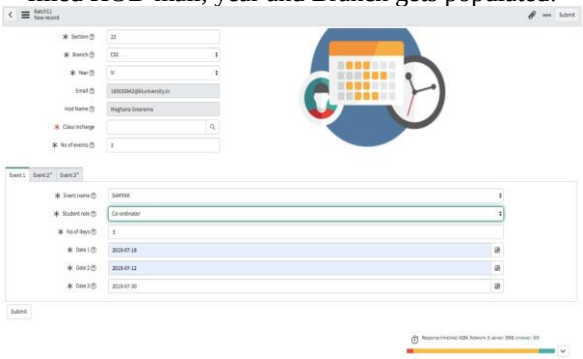
*Student needs to fill the details in the form.



*No of events generated based on the selection of the student.

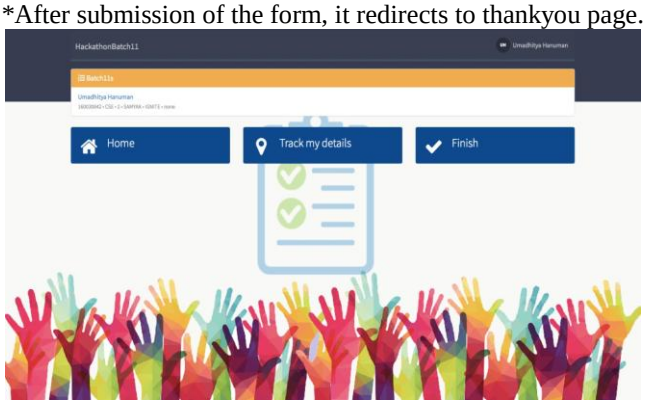


*Based on the name, his email gets populated. ID Number filled HOD mail, year and Branch gets populated.



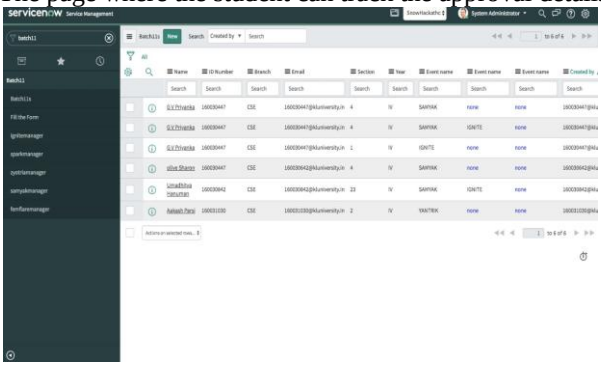
*Dates gets validated that dates must be before today.

*After submission of the form, it redirects to thankyou page.



*This is the details filled by the students.

*The page where the student can track the approval details.



*List of students who filled the attendance form.

VII. CONCLUSION

The event management system is developed using service now platform fully meets the objectives of the system which it has been developed. We have proposed an efficient Event attendance Management System to take and maintain the attendance of students for all educational institutes. This project has a vast scope in future.

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