

Speculative Motion Observing and Interaction System

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Abstract: Now, every work on attendance and mark list maintenance is been processed manually or keeping all the records safely from dusts. These records are not going to remain safe after decades. So, we implemented Speculative Motion Observing and Interaction System (SMOIS) an android application with a live database to store and retrieve information simultaneously. This android application contains of staff, student and parent modules where staff upload all the information regarding management, college events, student mark details, attendance, etc., student can use that app to view mark details, attendance percentage and college events organized by management. Parents will observe their child activity on the college each day and direct communication without going to college and meet the respective staffs.

Key words: Android application, live database, SMOIS, events, college, students

INTRODUCTION

Colleges provide good infrastructure, studies, extracurricular activities and goes on. But, a proper communication between the parents and students is a major issue where the student is an intermediary between both parents and staffs. Whenever, information is passed via. student, management doesn't know whether they shared that with their parents (Kumbhar *et al.*, 2014; Agrawal and Bansal, 2013; Akhila *et al.*, 2013).

Student will always take an advantage over that and misleads their career. When an organization calls a parent to convey small mistake by student, it makes difficulties to them to cut their works and meet the management. So, it takes major for each and every student as well parents. This may provide a major disadvantage on communication or interaction among them. Another thing is mark list, collecting student address and maintains that database to send the mark list details to their home had a false acknowledgement (Govindasamy, 2001).

When it comes to record maintenance, a team with full support of keeping all the records safe from getting old and some pages may missed out or torn into pieces. Even small info cannot be processed after some decades (Manickasankari *et al.*, 2014). The major issue is manual work, whenever a mistake or update, need a separate record to maintain that information and always takes too much of time. The sensor based water analysis is explained in the design of optical sensor for detection of brininess of water (Lavanya *et al.*, 2014).

MATERIALS AND METHODS

In our module, we implemented speculative motion observing and interaction system an android application with a live database where each and every information stored there will be keep on safe from all dusts. Whenever need to update or modify any kind of info, that won't be a problem.

Staff: In the department each and every student's information will be maintained by staff through this application. For example, staff will be maintaining the all internal exam mark and the mark information will be updated in the app so that, parents can view. And also maintain university mark for all students (Fig. 1).

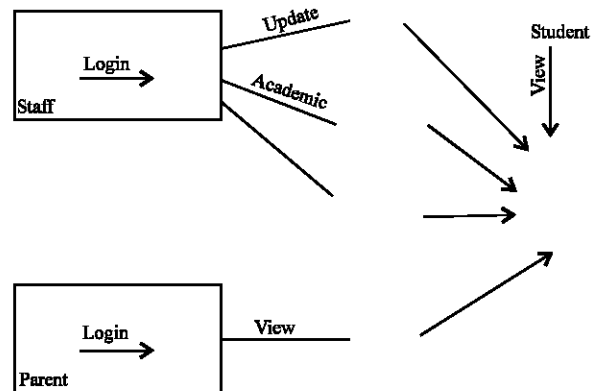


Fig. 1: Architecture of proposed work

Student: Here, student will use the application and view the information passed by the staff. Internal marks updates, events information and the management information which all been updated in the app by staff and the students can check all those details via. student monitoring application.

Parent: In this process, the parents have a separate access which is a login authentication in the application. So, they can check their child activities for each and every day during the college session where parent has to give the student identity on the application to view the particular one. As well as the parent can view updates given by management and information of event going to happen in the college, etc.

Server maintenance: All the information is handled in the server which acts as a storage which stores the data updated by staff. Whenever, the parent or a student enters the application, the details has been fetched and displayed on the particular aspect. Only staff can hold the access of server to modify any of information on the storage area. It can frequently processed and provide the valid information for the specific user.

RESULTS AND DISCUSSION

Table 1 lists out the student register number, current semester and grade of each subject of that semester exam results. Whereas this information is uploaded to the database and retrieved back whenever need by the staff, student or a parent (Table 1).

Table 1: View of student mark list

Reg. No.	Semester	Sub 1	Sub 2	Sub 3	Sub 4	Sub 5	Sub 6
212612205004	5	A	A	S	S	B	A
212612205024	5	B	C	B	S	A	S
212612205012	5	A	A	S	S	D	B
212612205032	5	C	D	A	S	C	A

CONCLUSION

Finally, we conclude the proposed research is a major advantage for each college which can update into android application for record maintenance of each and every students attendance as well as mark list. By this, we can convey any management information to the student and parents on any time access. On time information intimation to every parent and student, no need of query process to the administration office. Improvisation on postal mechanism for each student, information is uploaded to the database and parent can view on results.

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