



## XamClick- Exam Cell Automation System

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**Abstract:** *The admission process of college is conducted on periodic basis in every educational institution. It should be systematic and proper. The manual conduction of student registration and result generation is always tedious and cumbersome. All these problems can be solved by automating the college system. By automating this system, the coordinators of the examination can conduct the process of registration and generate results systematically. XamClick is a valuable, decisive and helpful resource for students and institutions. XamClick is an effective tool for integrating and automating various activities of college examination system at different administrative levels to bring reliable, efficient, scalable, transparent and robust solutions. It has the perspective of attaining attraction of those colleges which don't have one good performing software for keeping their information secure and make their management easier. By computerizing the college system, the results can be declared smoothly, error free and registration, online form filling, revaluation form filling, KT form filling, Hall ticket generation and result generation, etc. The hall tickets can be generated by using this system. Also students don't have to come to college to collect their hall tickets. An email will be sent to them where they have to enter their details and then get it printed. Also students can check their marks for every unit test along with the final mark sheet. This system is very advantageous for the systematic conduct of examinations. This system is very advantageous for the systematic conduct of examinations. Thus by designing this system we have made an attempt to make it easier for the students and exam cell staff.*

**Keywords:** *XamClick, SQL*

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### I. OBJECTIVE

Currently Exam cell activity mostly includes a lot of manual calculations and is mostly paper based. The project aims to bring in a centralized system that will ensure the activities in the context of an examination that can be effectively managed. This system allows students to enrol themselves into the system by registering their names or by sharing their details to admin. This allows only the registered students to login into the system which prevents unauthorized access. It aims to provide an easy way not only to automate all functionalities of a College, but also generates hall tickets and results online.

### II. INTRODUCTION AND OVERVIEW

Our admission process has become very tiresome. Ratio of establishment of new colleges and schools are also increasing. But the actual challenge starts now. Most of the schools and colleges are maintaining student information in records and hence a lot of paperwork goes into it. When the number of records increase the precipice, it becomes difficult to maintain the information of each student in the antiquated system. Automated solutions using this system will make exam department activities more efficient by covering for the most important drawbacks of manual system, namely speed, precision and simplicity. A centralized system will ensure that the activities in the context of an examination can be managed effectively, while also making it more accessible and convenient for both students and staff. Therefore the online form filling is taking over the traditional system. Maintaining the records manually makes the system prone to errors and requires more labour and time for processing the records.

The final product would constitute a computerized module aimed at replicating offline exam cell process. The system is a new concept which came into existence because of the large amount of data being on paper and it made analysis of results a tedious task, apart from the unmanageable amount of data that is generated in an institution from various departments. The Automation system is like an intermediary between staff and students, thus easing the activities of each regarding examination. It is a system that will make the exam cell process much organized. It would require certain crucial data to be pre-existing, which definitely suggest a dependency on certain other systems, especially ones concerning data acquisition. The Solution, however, will manage a great deal of menial work. This keeps paperwork to its minimum, leading to ease of accountability, reducing confusions and increase in work rate and efficiency. The project will address firstly, access to various users including students, teacher, exam cell staff and admin. Then customization based on requirement of College. And finally automated result analysis and ancillary services.

The system under consideration is prepared in order to replace the current paper record system with an automated online management system. College Staff are able to directly access all aspects of a student's academic progress through a secure, online interface embedded in the college's website.

The system utilizes user authentication, displaying only information necessary for an individual's duties. Additionally, each sub-system has authentication allowing authorized users to create or update information in that subsystem. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. In addition to a staff user interface, the system plans for student user interface, allowing students to access information and submit form online thus reducing processing time. All data is stored securely on SQL servers managed by the college administrator and ensures highest possible level of security. The system features a logging system to track all users' access and ensure conformity to data access guidelines and is expected to increase the efficiency of the college's record management thereby decreasing the work hours needed to access and deliver student records to users.

The system will be used by educational institute

'Rajiv Gandhi Institute of Technology' to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. Our project focuses on presenting information in an easy and intelligible manner which provides facilities like online registration and profile creation of student's thus reducing paper work and automating the record generation process in an educational. Our project enhances the upgradability of the existing system and makes it convenient for the staff to manage records.

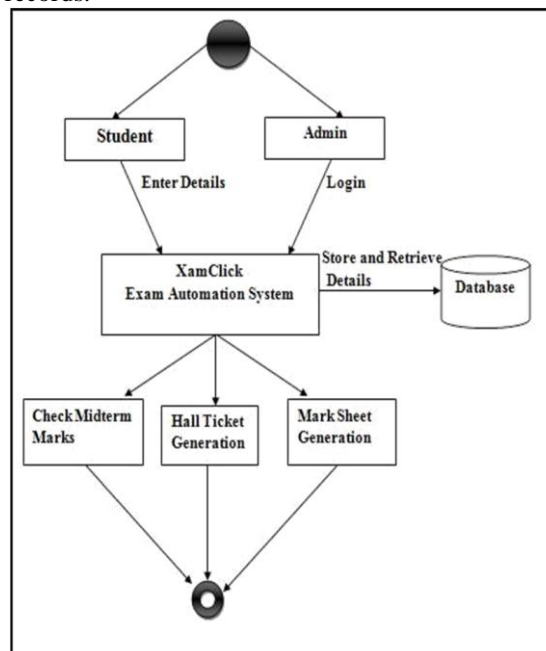


Fig.1 Block Diagram of XamClick

#### ➤ **Scope of XamClick**

The scope of system is a part of project planning that involves determining and documenting a list of specific project goals, deliverables, tasks, costs and deadlines. It is the extent to which the project solves an existing problem. The scope statement also provides the project team leader or facilitator with guidelines for making decisions about change requests. Our system will be used by educational institute 'Rajiv Gandhi Institute of Technology' to maintain the records of students easily. Our project focuses on presenting information in an easy and intelligible manner which provides facilities like online registration and profile creation of student's thus reducing paper work and automating the record generation process in an educational institute. Our project enhances the upgradability of the existing system and makes it convenient for the staff to manage records.

The scope of the project is:

- All admission and examination related work for the student can be done using this system.
- Provide faster and easier access for updating records.
- All the student related database can be retrieved at any time.
- Application support and maintenance after deployment to production.
- The Admin module can be reused for projects as well which have many users with different rights. Hence it is reusable.

#### ➤ **Limitations of XamClick**

The limitations of a project are the boundaries that confine the functionalities of a project. It tells us about the operations that the project is restricted to. A limitation is a restriction imposed by the application of a project. Limitations are boundaries artificially created by project and absence of these Boundaries results in a better management of projects.

The following are the limitations of our project:

- Internet connection is required.
- Threat of password leakage.
- No online payment option

System flow is as shown below:

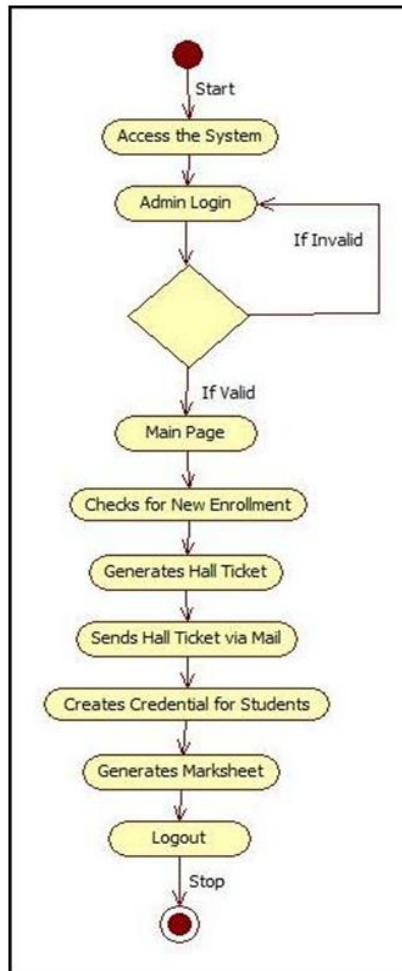


Fig. 2 Activity Diagram for Admin

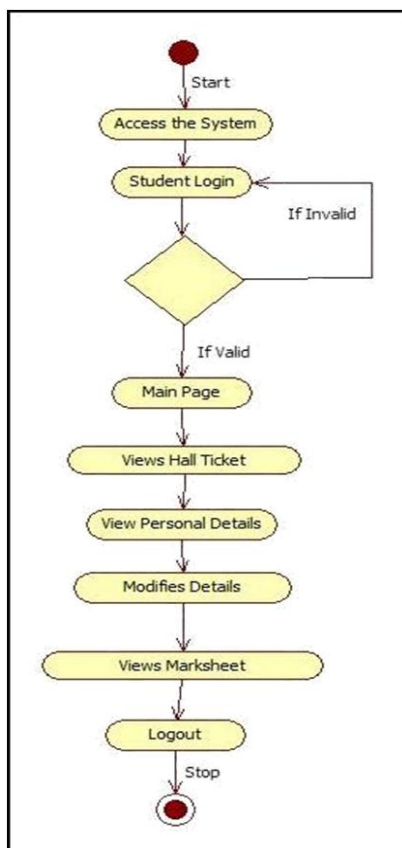


Fig 3 Activity Diagram for Student

### III. MODULES DEVELOPED

This system is having 6 Modules:

1. Student Register
2. Admin Login
3. Send Email
4. Student Login
5. View and Update Details
6. Mark sheet Generation

#### **Description:**

##### *A. Student Register*

To register students have to just provide their Personal Details like Name, Address, Phone No, etc., and a photo, to the enrol himself into the System.

##### *B. Admin Login*

Admin can view who has enrolled into the system, and can see all the new enrolment on his login.

##### *C. Send Email*

After creating the hall ticket, the system mails the link of soft copy to every student who have registered.

##### *D. Student Login*

Students can use their credentials provided by admin to login into the system

##### *E. View And Update Details*

System allows registered students to view and modify/update the personal details like Phone number, email-id, etc.

##### *F. Mark Sheet Generation*

System allows admin to generate mark sheet of examination for every student.

### IV. CONCLUSION

Considering the extremely interwoven nature of exam cell activities, an automated solution to important activities like result analysis and report generation would greatly benefit the institution. The use of up-to-date open-source software ensures a great cost-benefit measure while maintaining productivity, thus improving the student experience and value of education. Further, the implementation of this system can perpetuate the automation of other important activities in the institute, thus making the college more student and staff-friendly. We have been successful in deploying the entire form filling and hall ticket module on intranet.

### REFERENCES

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