

# Web based University Examination Registration for Engineering Student

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**Abstract-** In Today's world, Internet is the global system of interconnected computer networks that use the Internet Protocol suite to link devices worldwide. It is a network of networks that consists of private, public, academic, business, and government networks of local to global scope, linked by a broad array of electronic, wireless, and optical networking technologies. The Web based Exam Registration system focuses on some very important online features for Engineering Student. We are developing a web based model for Amravati University students. The University has been developing slowly into Web based University examination registration for engineering student over a decade, introducing more courses that require PC and Internet access. We are focusing some important features like E-Mark sheet, E-Result, Online Exam form Submission, Documentation scanning, Student Record Maintenance related to exam, Notices about university exam, previous Exam Question papers, College information under university and much more.

**Keyword:** - Online Registration, Results, Exam Details, Document Scanning, Previous Exam Question Paper.

## I. INTRODUCTION

Examination Registration for Engineering Students is a term that can be defined in many different ways, but for our purposes we will use this definition "a web based university examination registration for engineering student is one in which key relationships and services, as well as academic, outreach and business processes are transformed through the use of internet technologies." The university is seeking to improve services, efficiency and effectiveness. In this, we will explore the web based university examination registration for engineering concept at the University of Amravati – the way in which it is being created, the results which are being generated and the plans for the future.

The project is developed for the engineering student in order to view the timetable for exam, give online exam, hall ticket generation of student, exam related information, previous exam question paper. To make the educational system online that is exams results are generated online with ease. In the present system of the examination conducted through franchises of the educational institutions, are carried out manually. Institutions are sending exam forms to the University for appearing for examination. All these things are taking a lot of time and require heavy physical strength. Institutions are frequently conducting the exams and they have to get the forms filled for one exam or another exam. This will

take lot of time and also is very costly. Evaluation of answer sheets and issuing results also takes a lot of time.

It saves Time as it allows number of Departmental students to login and fill the exam form at a time and submit it. After submitting the exam form, Exam Fees challan will be automatically generated, Student can take print out of that Challan. Administrator has a privilege to Create, Generate, modify, delete, Exam Form, Hall Ticket, Result, any Exam related news or any Content on this Web Application. The Basic objective of the project is to make all the system computerized, reduce the time consumed, reduce error scope, establish a centralized database for management, create user-friendly automated environment and also reduce paperwork as much as possible.

## II. LITERATURE SURVEY

There is a growing body of research focused on developing better ways to manage web based university examination registration for engineering student. Some of these researches focused on various sections of the system and these include:-

Web-based Examination System is an effective solution for mass education evaluation (Zhen Ming et al, 2003). They developed a novel online examination system based on a Browser/Server framework which carries out the examination and auto-grading for objective questions and operating questions, such as programming, operating Microsoft Windows, editing Microsoft Word, Excel and PowerPoint, etc.[6]

Another paper (He, 2006) presents a web-based educational assessment system by applying Bloom's taxonomy to evaluate student learning outcomes and teacher instructional practices in real time. [7]

Another paper proposed web based online examination system (Rashad et al, 2010). The system carries out the examination and auto-grading for students exams. The system facilitates conducting exams, collection of answers, auto marking the submissions and production of reports for the test. It supports many kinds of questions. It was used via Internet and is therefore suitable for both local and remote examination. [8]

An online website for tutoring and e-examination of economic course aimed to present a novel software tool can be used for online examination and tutorial application of the syllabus of economic course (ELEmary and Al Sondos, 2006). [9]

Electronic exam is a difficult part of e-learning security (Huszti and Petho, 2008). The paper describes a cryptographic scheme that possesses security requirements, such that authenticity, anonymity, secrecy, robustness, correctness without the existence of a Trusted Third Party. The proposed protocol also provides students a receipt, a proof of a successful submission, and it is based on existence of anonymous return channels. [10]

The world is changing very rapidly; organizations have to perform at a very high level. Even in the non-profit sector, global competition is spurring change. Universities all over the world are re-examining their operations as a result of having looked at the way in which things are being done in other countries.

In order to build up a competitive advantage in domestic and global environments, the university is implementing several initiatives, among them the university initiative. The aim is to improve, diversify and expand the university's services, to make work more effective and efficient, as well as to be more attractive and competitive in the domestic and global marketplace.

This system is entitled as "Web based University Examination Registration for Engineering Student". The project we managed various students forms online. It is difficult to manage large amount of data and documentation related to student. To recover this problem we design this web application.

This system includes two modules name as student and admin. This system also integrates the options of technical forum system, where the students can raise the questions related to academic staff. The university refers to the co-ordination and interaction between students and admin which is university staff.

### III. EXISTING SYSTEM

In previous system student has to fill their exam forms and back lock forms on papers. Also because of missing documents the result of the students is in withheld. In previous system last semester online exam form facilities has been available for college not for student. Instead of using enrollment no. what we have decided is to use PRN no. which we get at the time of registration this is due to when we take admission for direct second year engineering Student the enrollment no. is not available its that's we have decided to use PRN no. instead of enrollment no.

### IV. PROPOSED SYSTEM

The system includes two modules which is admin module and student module in this student module student can perform various operations. Once student successfully login to their profile using Permanent Registration Number and unique code .after that students can do various tasks like as they can fill their online forms like exam forms, revaluations form etc.

after that they can see university related updates. This updates will provided by admin and will get displayed into each students profile,updates will be provided on daily basis that can help students to be in touch with various college related activities or event, students can also see approved form, this forms are those form which students submits to admin for approving.

Admin module in this admin module admin can perform various operations. Once admin successfully login to their profile using unique id and password, after that admin can do various tasks like as they can approve student's related form, generating result, keep updating, maintaining student's records.

## V. SYSTEM ARCHITECTURE

### 1. Admin Section

The admin can perform various activities after he/she has successfully logged in. The Activities which can be performed by the admin are that he/she can see the registered students, online forms, results, view requests, add subjects and courses, forum, notification and also view revaluation paper request.

#### Admin Data Flow Diagram

#### 1. Permanent Registration Number Student registration

Once Student at university website,

Student 12 digit no will generate at the time of registration.

#### 2. Generate College wise PRN Student List.

All Students unique no will be in this list.

#### 3. College info Submit

#### 4. Result

#### 5. Online Students forms

#### 6. Uploads Events

#### 7. Upload Notification

#### 8. Upload Course's And Subject's

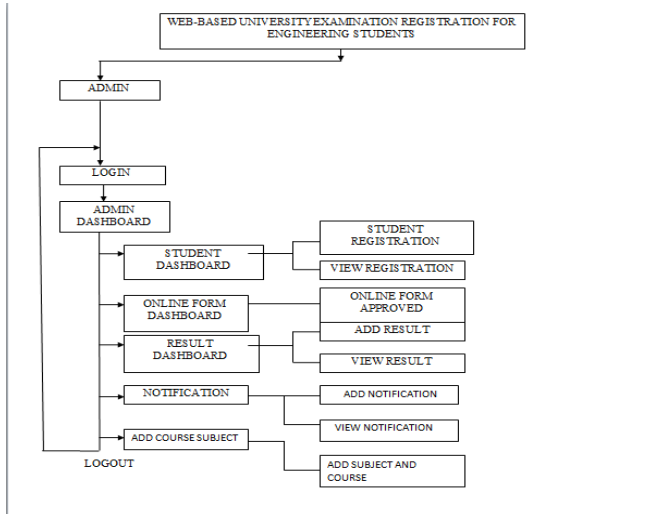


Fig. 1: Working Diagram for Examination Registration for Engineering Student.

For Administration:

- Allow them to add/update examination officers  
Control all other features within the system  
Receive complaints whenever the system fails to achieve its intended objectives.
- Allows All students can raise their academic related queries and admin can respond to their queries. The questions raised can be either answered by other student or the admin itself.
- This provides a space to get all the questions answered easily at one place.

## 2. Student Section

The student can perform various activities after he/she has successfully logged in. The Activities which can be performed by the student are that he/she can fill online forms, view results, the students can raise their academic related queries request to admin, get notification and also option for revaluation request.

Students Data Flow Diagram

User/Students

1. Login / Register with University Web Application / Forget Password

Register

Enter Permanent Registration Number => Enter 12 Digit Unique Key => Enter Password, Retype password=> LOGIN Link.

Login

Enter Permanent Registration Number => Enter Password.

2. Result

3. Online Form Filling

4. Events

5. Notification

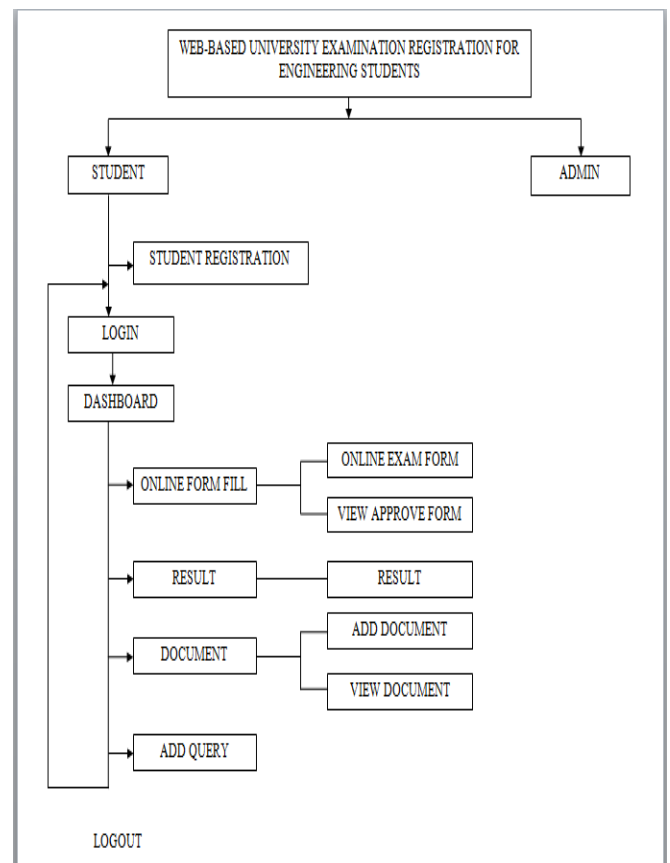


Fig. 2: Working Diagram for Examination Registration for Engineering Student.

As shown in above diagram, for exam related activities, student can register by creating their account. Students are able to fill their online form, view approved forms, view displayed results, for document scanning, and students can add any new document if any is missing, view their documents, or add any queries as needed.

The student can perform various activities after he/she has successfully logged in. The Activities which can be performed by the student are that he/she can fill online forms,

view results, the students can raise their academic related queries request to admin, get notification and also option for reevaluation request.

Many advanced facilities will be provided as each student can view their exam details, post comments/queries/feedback to the administrator, view their previous exam question papers and change password for privacy, etc.

## VI. APPLICATIONS

- Web based university examination registration for engineering students will serves the individual needs of students from different sectors.
- Web based university examination registration for engineering students will be provides availability in all geographical segments; it is available at student's home, workplace. And covers different areas and regions.
- Web based university examination registration for engineering students will be applied in the way of generation, evaluation, explanation of results which will be carried out through internet, notification systems and any new communication technologies that are or become available.
- Web based university examination registration for engineering students will be applied in educational fields which will cover all specializations in universities.
- Web based university examination registration for engineering students will be provides high quality services anytime, anywhere with different technological ways (internet, computers, mobile phones etc...).

## VII. ADVANTAGES

- Less Paper Work
- Money transactions made easy
- Students have their own separate profiles.
- Q&A can solve students queries
- Security
- Notification are also available
- Provided previous exam question paper bank easily.





## VIII. CONCLUSIONS

The system would provide an easy way to fill the online exam forms. In a single click, the Admin can view all related information filled by users. A Students would be able to view everything related exam like any information, results, events etc. User will also be able to save time and paper.

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