

e-Services for Council of Higher Secondary Education – A successful approach in Manipur

This system has now made it easy to access latest notifications, Recognized institutions, Special scheme, Curriculum and Syllabus for class XI and XII, Academic calendar, Download forms etc. Made for the council of Higher Secondary Education, the system has proved to be a successful approach especially for students living far away from Imphal. It is a great help as they can easily receive result reports such as provisional mark sheets, subject wise toppers list and Top 25 Ranked students list.



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NIC Manipur has been providing ICT services to the Council of Higher Secondary Education, Manipur (COHSEM) since the year 2003. In the year 2004, the Application software for computerization of the entire process of examinations conducted under this council was developed and the results of these examinations were declared and made available through the exams portal <http://results.nic.in>. Moreover, various result reports such as Provisional mark sheets, Subject wise toppers list, Top 25 ranked students etc were made available through web, which was of tremendous help to the students, especially to those living far away from Imphal.

OTHER IMPORTANT SERVICES PROVIDED TO COHSEM

- Web portal of COHSEM
- Enhanced version of the Computerization of Examination Processing System.
- Online Enrollment System
- **Web portal:** The official web portal of the COHSEM (<http://cohsem.nic.in>) was developed and hosted by NIC Manipal. Using the latest website development software such as Dreamweaver CS4, the site was developed and hosted at the NIC Servers. Latest Notices, Organizational Structure, Recog-

nized Institutions, Special Scheme, Curriculum and Syllabus for class XI & XII, Academic Calendar, Download Forms etc. are made available through the portal.

- **Examination Processing System:** Developed for the Council, the Examination Processing System is reliable and robust solution to overcome the lengthy process of conducting annual Class XI and Class XII examination. Modules and features of the systems are as:

1. **Enrolment:** Each year, details of students enrolled in Class XI and Class XII are updated in a centralized database by every schools and colleges affiliated to this council. This is by submitting the students' data in MS Access Database files with authenticated hard copies. The Council then generates enrolment numbers for each student from the database for future references.
2. **Registration:** The system generates registration numbers of the enrolled and valid students who are eligible for appearing in the HSE examination.
3. **Issue of Roll Numbers:** The roll numbers of the students who will be appearing in the examination are generated.
4. **Allocation of Centres:** Students are allocated with the Centre of Examination by mapping with the capacity of each Centre.
5. **Codification/Decodification of Roll Numbers:** For the process of evaluation of answer scripts, codifica-

tion and decodification of Roll Numbers are carried out.

6. **Evaluation:** The Council maintains a list of evaluators for subjects for every exams which they conduct. The evaluators are then assigned the answer scripts according to the subject they are competent in. The marks statements after evaluation are then submitted to Council for tabulation.

7. **Tabulation of Marks and Processing:** The marks collected from the evaluators are then consolidated for each code and corresponding subject. The system can generate various reports such as pass percentage, number of students in each division, highest marks etc.

8. **Results declaration:** The results are declared with various reports such as Provisional mark sheets, Passing Division wise, Subject Group wise, Subject wise toppers, Top 25 ranked students, Statistical Abstracts, etc.

9. **Issuance of Mark sheets and Certificates:** Finally the Mark sheets and Certificates are issued, in which the status of each student candidate of the Council Examination is reflected.

Development Technology/ Software: The System was developed using VB6, MS-SQL Server and Crystal Reports. Results are published on the



NIC website <http://manresults.nic.in>.

• **Online Enrollment System:**

This web-based application is a part of *Examination Processing System*. The objective of the application is to automate the data submission by allowing schools to download a blank MS-Access database from the site, enter data into the database in offline mode and further upload the filled-in MS-Access database to the website directly online.

Then the system generates unique enrolment number for each student. Through this web application, taking print out of broadsheets is also made available. This system serves the enrolment process through both online and offline mode. This enables saving of time and money for the schools. The system also checks student's records and help verification of reports

to detect duplicity of the student enrolled in different schools.

The Online Enrolment System has been developed using MS-Visual Studio 2010 using Asp.net and MS-SQL database. The system is a part of the website <http://cohsemmanipur.nic.in> which was hosted successfully after completion of the security audit process by the Cyber Security Division of NIC.

Each school affiliated to the Council is given User ID & Password after registration in the system. Only the valid users are allowed to upload and submit the students' data online. The system generates enrolment numbers for the students and broadsheet online, which can be downloaded by the school authorities.

WAY FORWARD

- System for online payment of fees by school to the Council
- System for SMS and email alert to the students on information updates like Registration notification, Examination routine, Exam Centre notification etc.

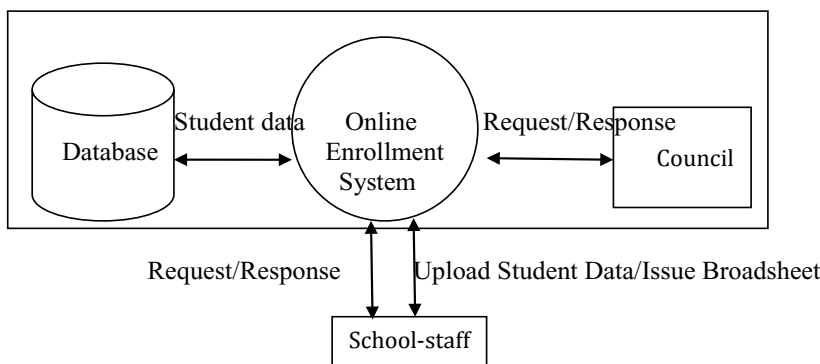


Figure: Workflow of the Online Enrollment System

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