Online Admission Management System (2023)

The National Institute of Speech and Hearing (NISH) is a premier institution in India that offers world-class education and training in the field of speech and hearing. With a mission to provide equal opportunities to people with hearing and speech impairments, NISH is committed to promoting inclusive education and breaking down barriers to learning.

In keeping with this mission, NISH is embarking on the development of an online admission website that will enable prospective students to apply for courses and programs online. This website will be a one-stop-shop for students, providing them with all the information they need to make informed decisions about their education and career.

The online admission website will be designed to be user-friendly, intuitive, and accessible to all users, including those with disabilities. It will feature an easy-to-navigate interface, clear and concise information about courses and programs, and a simple and streamlined application process. The website will also incorporate features such as user tracking and auditing, session tracking, coding standards, and backup and disaster recovery facilities to ensure the security and reliability of the system.

Overall, the development of an online admission website for NISH is an important step towards promoting inclusive education and breaking down barriers to learning. With this website, NISH is committed to providing equal opportunities to all students, regardless of their background or abilities, and to ensuring that education is accessible to all.

Steps to Register for Admission Process:

1. To register for admission at NISH, the candidate should visit http://www.admission.nish.ac.in and provide a valid email address. After verifying their email, the candidate can upload their photo in a standard format and enter their personal details, reservation information, academic qualifications, and other necessary information. The candidate must also pay the application fee online before the deadline.
2. The candidate may modify their application by adding, deleting, or rearranging their choices before submitting the final application. However, any changes must be made before the deadline and before submission.
3. The candidate should also upload scanned copies of all supporting documents, such as academic certificates, marklists etc.
4. The candidate should have access to an online payment facility for application fees.

5. Once the online application is complete, the candidate can generate a printable version of their application form for their records and a copy to be sent to their email id after submission.
6. The candidate must wait for the allotment process to be completed and print out the allotment memo if one is issued and by Email also.
7. The candidate should keep an eye out for any updates or notifications from NISH, and respond as needed.

Functionality Checklist

1. **User Authentication:** Provide users with the ability to create and manage their login credentials, as well as reset their password if forgotten.
2. **Data Verification:** Ensure the accuracy and completeness of the entered data by incorporating a checklist for required certificates.
3. **Customizable Application Process:** Allow for the creation and modification of application formats and admission processes for various academic courses. The software should also be designed to accommodate additional courses.
4. **Query Resolution:** Provide users with a query resolution mechanism to clarify any doubts or questions they may have about the admission process.
5. **Enabling the Editing Option:** If, after submitting an application, a student or a member of the verification team discovers one or more mistakes, students should be given a deadline-bound opportunity to correct them.
6. **Search and Retrieve Functionality:** Enable authorised users to search and retrieve data for any student based on various criteria such as name, email ID, mobile phone number, Aadhar number, PAN Card number, or registration number.
7. **Hall Ticket Generation**: Create hall tickets for selected courses, including student photos from the database for an entrance examination if required. The content of the hall ticket can be customised.
8. **Marks Entry:** Result of the entrance test marks needs to be entered.
9. **Rank List Preparation:** Generate a rank list of applicants based on specified criteria.
10. **Interview Call Letter Generation:** Generate call letters for interviews and send them via email or SMS to registered mobile numbers.
11. **SMS /Whatsapp Alerts:** Send SMS alerts to registered mobile numbers for entrance exams and interviews.
12. **Application Status Updates:** Keep applicants updated on their application status by sending emails, SMS messages, Whatsapp messages and updating their login page.
13. **User Audit:** Maintain a record of user logins and activities for security and monitoring purposes.

14. **Certificate Verification and Approval:** Incorporate a two-level verification process for certificates and approvals.
15. **Admission Status Update**: Update the admission status of applicants once the admission process is complete.
16. **Multi-Level User Access:** Incorporate multiple levels of user access, including superusers, middle-level users, verification-level users, and candidate users.
17. **Integration with Accounting Software:** Transfer admitted students' data to a student database that can be imported into Tally accounting software and spreadsheets.
18. **User-Friendly and Secure:** Ensure that the software is user-friendly yet secure to protect user data and prevent unauthorized access.
19. **Report Generation:** Generate reports on the number of candidates who applied, acknowledged, received and did not receive call letters for entrance exams, SC/ST candidates, and provisional rank lists. The reports should be in a format that is acceptable to the university.

Technical Specification:

1. **Programming language and framework:** The web application can be developed using popular programming languages like PHP, Java, Python, or Ruby, and a web application framework like Laravel, CodeIgniter, Spring, or Django.
2. **Database management system:** The platform should support a relational database management system (RDBMS) like MySQL, Oracle, or PostgreSQL. The database should have sufficient storage capacity to accommodate student records, admission details, and other information.
3. **Security features:** The platform should have robust security features such as SSL/TLS encryption, firewall protection, user authentication, and access control mechanisms to protect sensitive information and prevent unauthorized access.
4. **Payment gateway integration:** The portal should have a payment gateway integration to enable students to pay the admission fee online using various payment methods like credit/debit cards, net banking, or UPI.
5. **Responsive design:** The portal should have a responsive design that allows students to access the portal from any device such as desktops, laptops, tablets, or smartphones.
6. **Content management system:** The platform should have a content management system (CMS) that allows the admission team to manage and update the content of the portal, including the admission guidelines, admission forms, and other relevant information.

7. **Reporting and analytics:** The platform should have a reporting and analytics module that allows the admission team to generate reports and analyze admission data to make informed decisions.
8. **Coding:** The developer should adhere to established coding standards, covering indentation, naming conventions, error handling, documentation, code structure, and security.
9. **Backup and Disaster Recovery:** The development should incorporate backup and disaster recovery facilities to preserve sensitive data and swiftly recover from outages.
10. **Documentation:** Documentation should include user manuals, technical manuals, API documentation(If any), release notes, and code comments.