

---

## SCHOLARSHIP MANAGEMENT SYSTEM

**Mrs. Jannathul Firthous I.A<sup>\*1</sup>, Soundarya M<sup>\*2</sup>, Yasini V<sup>\*3</sup>, Sneka A<sup>\*4</sup>, Sreeja G<sup>\*5</sup>**

<sup>\*1</sup>Professor, Information Technology, Sri Shakthi Institute Of Engineering And Technology,  
Tamil Nadu, India.

<sup>\*2,3,4,5</sup>Student, Information Technology, Sri Shakthi Institute Of Engineering And Technology,  
Tamil Nadu, India.

---

### ABSTRACT

A Computerized platform called the Scholarship Management System (SMS) was created to help organizations and educational institutions expedite the application, selection, awarding, and monitoring procedures for scholarships. This system tackles typical scholarship administration issues like managing high application numbers, guaranteeing selection transparency, and effectively monitoring fund disbursement. The SMS gives administrators the ability to develop and oversee several scholarship programs, automate the screening of applicants according to predetermined standards, and support impartial and equitable selection procedures by offering a centralized platform. Students gain from an easy-to-use platform that makes document management, status monitoring, and application submission simpler. Additionally, the SMS has reporting and data analytics features that let institutions evaluate the results of their scholarship programs and make data-driven adjustments.

**Keywords:** Computerized Platform, Awarding Scholarships, Application Management, Impartial Selection, Data Analytics.

---

### I. INTRODUCTION

For Educational institutions, nonprofits, and other organizations that provide financial aid to students, a scholarship management system is crucial. Scholarship applications, reviews, awards, and tracking are all made easier by the system. It guarantees that funds are disbursed to worthy applicants in a fair, effective, and transparent manner by centralizing applications and streamlining administrative duties. In addition to providing financial aid to students, a strong scholarship administration process encourages diversity and skill within an organization. It encourages students from a variety of backgrounds by recognizing ability, need, or merit. Such a solution gives administrators the analytics and reporting tools they need to make wise decisions while cutting down on the time and resources needed to administer many apps.

### II. METHODOLOGY

**1. Conditions Analysis:** Stakeholder Interviews Conduct interviews with implicit druggies, including directors, scholars, pundits, and fiscal officers, to gather conditions. System Condition Specification Define system conditions, including the functional conditions(operation submission, review process, fund shadowing) and non-functional conditions( scalability, security, and stoner availability). stoner Personas and Use Cases Develop detailed stoner personas and use cases to understand colorful stoner requirements and relations with the system.

**2. System Design:** Architectural Design Establish a scalable and secure armature( e.g., customer- garçon or pall- grounded) to support multiple stoner types. Database Design Design a database schema to store aspirant data, education information, operation statuses, and backing records securely and efficiently. stoner Interface( UI) Design produce wireframes and mockups for a stoner-friendly interface that allows easy navigation for aspirants and directors. Security Measures Design features like authentication, authorization, and data encryption to cover sensitive stoner and fiscal data.

**3. Development Front - end:** Development apply the stoner interface for aspirant and director doors using suitable web technologies. Back- end Development Develop the garçon- side sense to manage operations, process awards, and induce reports.

**4. Testing and Quality:** Assurance Unit Testing Test individual factors of the system for correct functionality. Integration Testing Test how different modules interact to insure they work together seamlessly. stoner

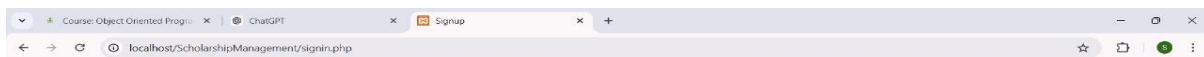
Acceptance Testing( UAT) Allow a group of druggies to test the system for usability, and gather feedback to make necessary advancements.

**5. Deployment Environment Setup** Configure the product terrain, icing proper security and access controls. Data Migration Resettle any being education data from heritage systems, if applicable. System Launch Emplace the SMS for druggies, furnishing necessary instructions and attestation.

### III. MODELING AND ANALYSIS

#### Sign-in module

To access your individual scholarship dashboard, please enter your registered email address and password. After logging in, you can look through the scholarships that are available, apply, monitor the status of your application, and get timely alerts about new possibilities and deadlines. Our system makes it simple to stay current and organized, regardless of whether you're applying for the first time or returning to manage previous submissions.



**SIGN-IN**

Username:

Email:

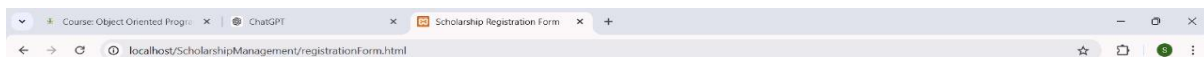
Password:

[Register now](#) [Click to Login](#)



#### Form page

The Form Page in a Scholarship Management System is the primary interface via which students may submit applications for available scholarships. This page often includes an organized form with many parts for candidates to provide crucial information, ensuring that all necessary data is obtained for effective review. The form is intended to collect personal information such as the applicant's name, contact information, academic background, financial condition, and eligibility requirements particular to each scholarship program.



**Scholarship Registration Form**

**Full Name:**

**Date of Birth (DOB):**

**Gender:**

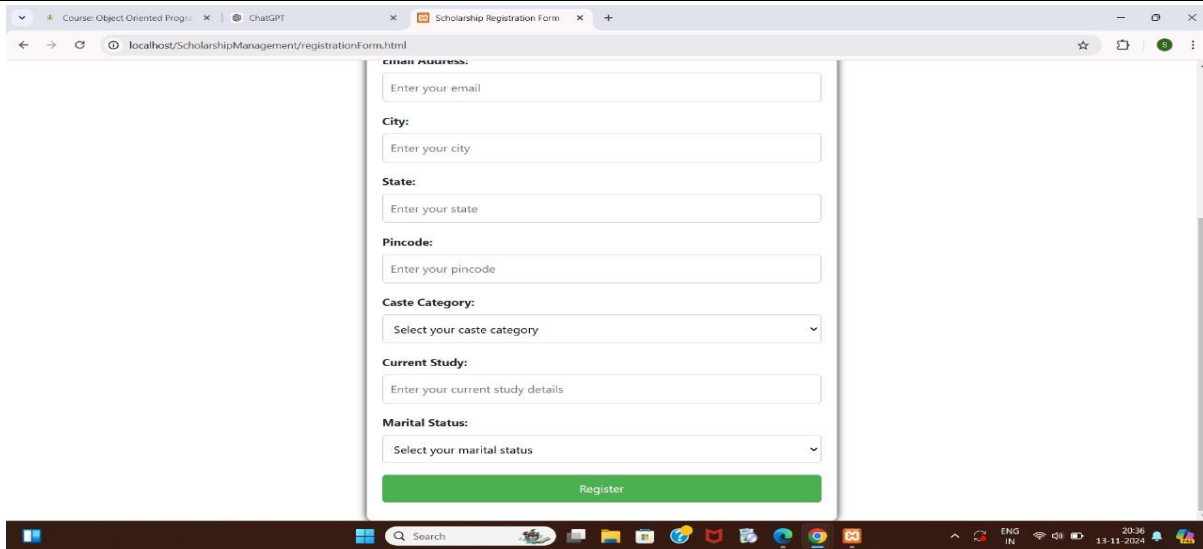
**Email Address:**

**City:**

**State:**

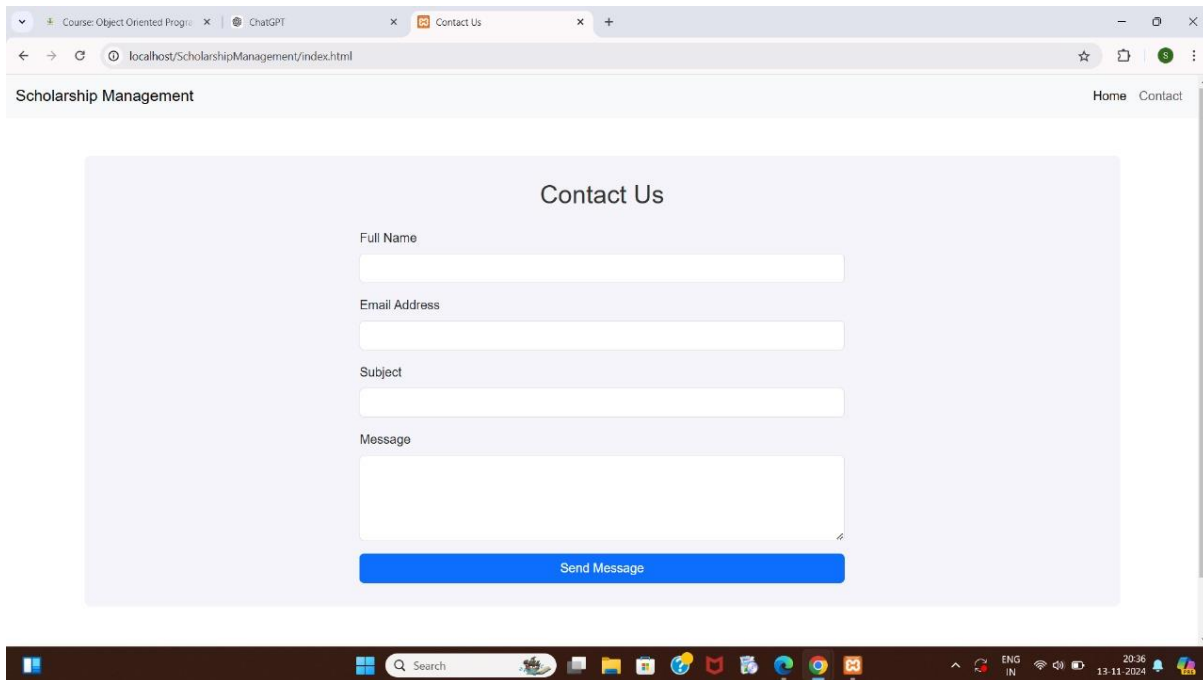
**Pincode:**



A screenshot of a web browser displaying a 'Scholarship Registration Form'. The form includes input fields for 'Email Address', 'City', 'State', 'Pincode', 'Current Study', and 'Marital Status'. A 'Caste Category' dropdown menu is also present. A green 'Register' button is located at the bottom of the form. The browser's address bar shows 'localhost/ScholarshipManagement/registrationForm.html'.

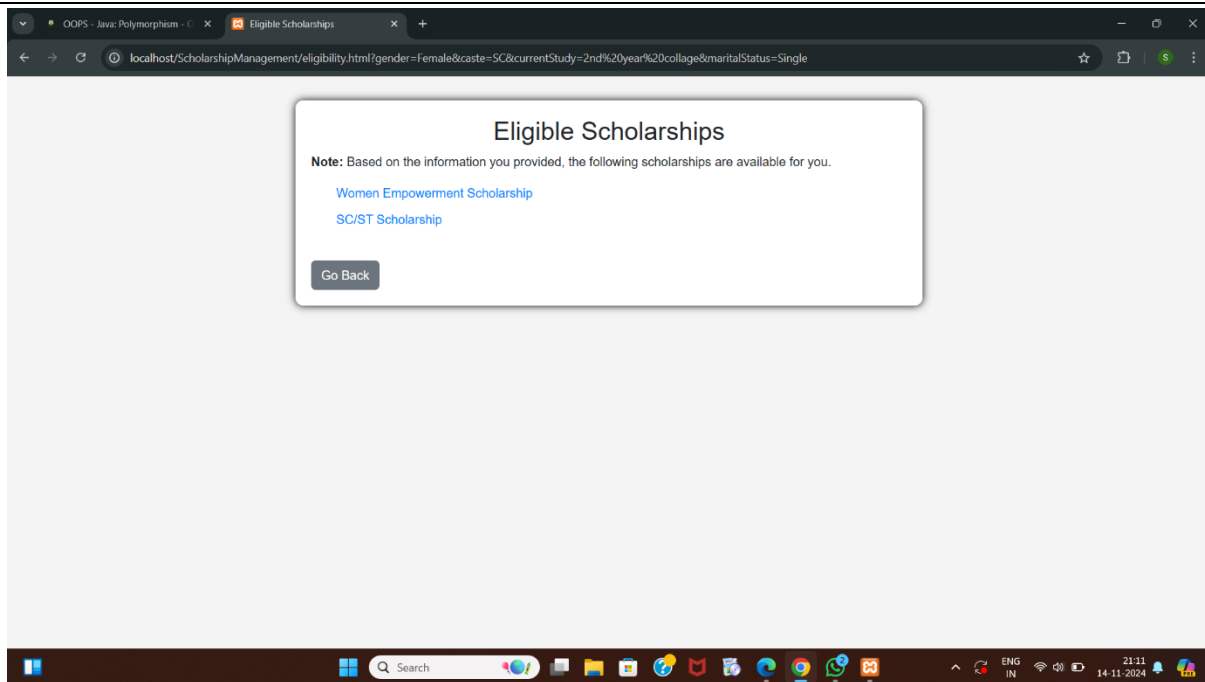
### Contact page

A scholarship management system's Contact Page is a specific area where applicants, students, and other interested parties can get in touch with the scholarship administration staff with questions or concerns. A straightforward and user-friendly contact form is usually included on this page for visitors to submit queries, grievances, or comments about the scholarship application procedure.

A screenshot of a web browser displaying a 'Contact Us' page. The page has a light blue background and contains a form with fields for 'Full Name', 'Email Address', 'Subject', and 'Message'. A blue 'Send Message' button is positioned at the bottom of the form. The browser's address bar shows 'localhost/ScholarshipManagement/index.html'.

## IV. RESULT AND DISCUSSION

The system's usability was evaluated through usability testing with a group of students, administrators, and scholarship sources. Students found the system to be easy to use. Without any trouble, they were able to complete the application process. Easy-to-use features including document upload, scholarship search, application submission, and status tracking were commended. The dashboard was deemed efficient by administrators for the management and evaluation of applications. Shortlisting prospects was made easier with the option to search and filter applicants based on a variety of criteria.



## V. CONCLUSION

For managing scholarship applications, reviews, and payout procedures, the Scholarship Management System has proven to be an effective and user-friendly solution. Throughout the scholarship lifespan, this technology improves transparency, streamlines the workflow, and reduces human error. Scholarship providers can concentrate on outreach and support for worthy applicants by using the system to streamline application submission, automatic verification, and reviewer evaluations.

## VI. REFERENCES

- [1] Breiman, L. (2001). Random Forests. *Machine Learning*, 45(1), 5-32.
- [2] Moustafa, N., & Slay, J. (2016). The evaluation of network anomaly detection systems: Statistical analysis of the UNSW-NB15 dataset and the comparison with the KDD99 dataset. *Information Security Journal: A Global Perspective*, 25(1-3), 18-31.
- [3] Flask. (n.d.). Flask Documentation. Retrieved from <https://flask.palletsprojects.com/en/2.0.x/>
- [4] W3Schools. (n.d.). HTML Tutorial. Retrieved from <https://www.w3schools.com/html/>
- [5] Doshi-Velez, F., & Kim, B. (2017). Towards a rigorous science of interpretable machine learning. arXiv preprint arXiv:1702.08608.