SOFTWARE TESTING DOCUMENTATION

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Submitted To

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1. Abstract-

This document outlines a set of test cases designed to evaluate the core functionalities, usability, and performance of the **https://students.cuchd.in/** student portal. The testing process aims to ensure that the portal meets the expected standards of reliability, security, user accessibility, and efficiency. The tests will cover various aspects of the portal, including login validation, navigation, form submissions, error handling, and responsiveness. The ultimate goal is to detect any potential bugs or performance issues and to enhance the user experience for students accessing academic and administrative services.

2. Introduction-

The **https://students.cuchd.in/** portal is an official online platform designed for the students of Chandigarh University. The portal offers a wide range of services such as academic updates, attendance tracking, fee payment, course registration, and access to examination results. The reliability and accuracy of this portal are crucial, as it serves as the primary medium of interaction between students and the university's academic system. This document focuses on creating comprehensive manual test cases to verify that the website functions as intended across different scenarios, helping to maintain a smooth, secure, and user-friendly environment.

3. AIM-

The aim of this testing process is to validate the functional, non-functional, and security aspects of the **https://students.cuchd.in/** portal. The testing will help ensure that:

- All core functionalities work correctly without errors.

- The portal is secure and maintains student data privacy.

- The user interface is responsive and accessible across devices.

- The system can handle expected workloads without performance degradation.

- Navigation is intuitive and error messages are meaningful and user-friendly.
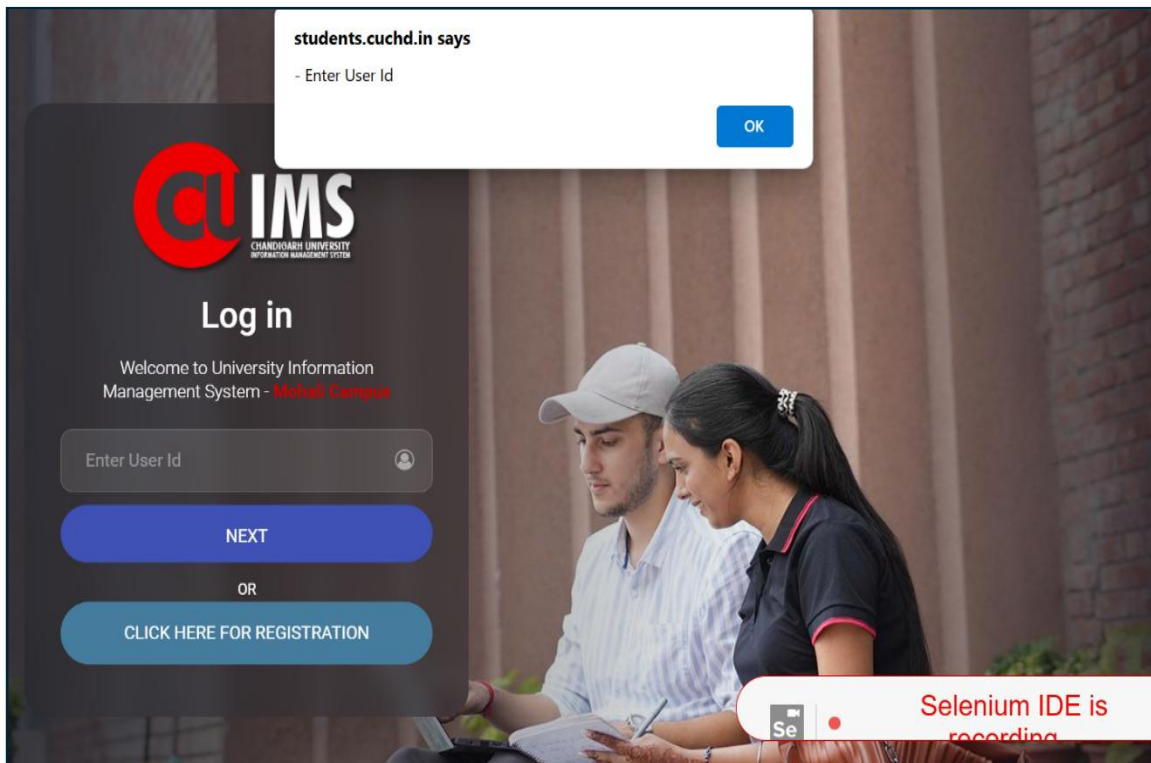
By conducting this testing, the goal is to identify and resolve issues before they impact the end-users, ensuring a reliable and efficient digital experience for all students.

4. Manual Test Cases-

- Website to be tested: **https://students.cuchd.in/**

TC_F01	Login Functionality with Valid Credentials	1. Navigate to https://students.cuchd.in/ 2. Enter valid username and password 3. Click Login	User should be redirected to the student dashboard.	User successfully redirected to the student dashboard.	Pass
TC_F02	Login Functionality with Invalid Credentials	1. Enter incorrect username or password 2. Click Login	The system should display an error message: "Invalid Credentials".	Error message "Invalid Credentials" displayed.	Pass
TC_F03	Forgot Password Process	1. Click on Forgot Password link on login page 2. Enter registered User id or DOB 3. Submit the request	Password reset link or OTP should be sent to the registered email/phone.	OTP sent to the register phone number and password reset successfully	Pass
TC_F04	Navigation Menu Functionality	1. Log in with valid credentials 2. Click each navigation menu (Profile, Attendance, Fee Payment, Results, etc.)	Corresponding pages should load correctly.	All menu options loaded the correct pages without errors.	Pass
TC_F05	Profile Information Display	1. Log in and click on Profile tab 2. View user details like Name, Enrollment Number, Course, and Email	All personal and academic information should be accurate and properly displayed.	Profile details displayed correctly.	Pass
TC_F06	Attendance Record Display	1. Log in to the portal 2. Navigate to Attendance section	Attendance percentage and subject-wise breakdown should be visible and correct.	Attendance displayed correctly with accurate data.	Pass
TC_F07	Fee Payment Page Functionality	1. Log in 2. Go to Fee Payment section 3. Verify clickable buttons and payment summary	Payment gateway should load properly, and fee details should match the student profile.	Payment page loaded, fee summary matched, payment gateway accessible.	Pass
TC_F08	Examination Results Access	1. Log in 2. Navigate to Results tab	Correct result data should be displayed as per student records.	Examination results displayed accurately.	Pass
TC_F09	Logout Functionality	1. Log in successfully 2. Click on Logout button	User should be redirected to the login page, and session should be terminated.	User redirected to login page, session terminated.	Pass
TC_F10	Error Message Display for Empty Login Fields	1. Leave username and password fields empty 2. Click Login	The system should prompt: "Please enter Username and Password".	Error message "Please enter Username and Password" displayed.	Pass
TC_F11	Form Input Field Validations	1. Input invalid data formats (e.g., special characters in username) 2. Click Login	The system should reject invalid inputs and prompt appropriate error messages.	Invalid input correctly rejected with error message.	Pass
TC_F12	Secure Page Access without Login	1. Try to access any internal page URL (like dashboard) directly without logging in	System should redirect to the login page, restricting unauthorized access.	Unauthorized access blocked, redirected to login page.	Pass

5. Automate Test Cases-

My Profile

STUDENT PERSONAL INFORMATION

UID	24MCI10205	Current Semester	2
Name	ANUP KUMAR THAKUR	Blood Group	B+
Father's Name	UTTAM KUMAR THAKUR	Current Section	24MAM-3
Mother Name	MANJU THAKUR	Program Code	MC306::MCA (AI & ML)
Religion	Hinduism	Student Status	PD
D.O.B.	11 Sep 2000	Cast	OBC
Admission Year	2024	Address	NAYA TOLA DAHERIYA, katlhar, BIHAR, PINCODE 854105
University	CU		

QUALIFICATION DETAILS

Qualification	Stream	Collage School Institute	University Board	Passign Year	Percent Marks	Remarks
Graduation	BACHELOR OF COMPUTER APPLICATI	DARSHAN SIKKHAN	PURNEA UNIVERSITY PURNEA BIHAR	2021		

Selenium IDE is recording

≡   **CU IMS**   Search & Bookmark your page 🔍   🔔 📖 🏠 ⚙️   ANUP 24MCI10205

Student Account Balance Sheet	Online Fee Payment History

or transaction updation,you are requested to lodge the request on Navigation > Student Relation Management System > Online Student Care Center Requests OR

Select Fee Type: ◉ Regular Pending Fee

Select Semester: 3 ▾

Particulars	Fee Payable	Extension / Scholarship / Loan / Other Amount	Late Fee Charges	Payable Amount	To pay fee payment (tick below)
Semester Fee	Rs 54710	-	0.00	Rs 54710 Part Payment	☐
Examination Fee	Rs 2500	-	0.00	Rs 2500 Part Payment	☐

Note: Fee details will updated with in next 10 minutes (Last updated on dated: 4/18/2025 12:55:47 AM)

Selenium IDE is recording

Course Code	Title	Total Delv.	Total Attd.	IDL	ADL	VDL	Medical Leave	Eligible Delivered	Eligible Attended	Eligible Percentage	View Attendance
24CAH-654	Software Testing	74	62	1	0	8	0	66	63	95.45	VIEW
24CAP-652	Advanced Internet Programming Lab	50	38	0	0	8	0	42	38	90.48	VIEW
24CAP-672	Machine Learning Lab	50	47	0	0	1	0	49	47	95.92	VIEW
24CAP-674	Artificial Intelligence Lab	43	41	0	0	0	0	43	41	95.35	VIEW
24CAT-671	Machine Learning	40	33	1	0	4	0	36	34	94.44	VIEW
24CAT-673	Artificial Intelligence	39	33	0	0	3	0	36	33	91.67	VIEW
24TDP-660	Soft skills - I	50	36	2	0	8	0	42	38	90.48	VIEW
24TDT-661	APTITUDE-I	54	44	2	0	4	0	50	46	92	VIEW

Types of Duty Leaves
• IDL : Industrial Duty Leave

6. Conclusion-

The automated testing of the **https://students.cuchd.in/** student portal was successfully conducted using **Selenium IDE**. Selenium IDE proved to be an efficient tool for recording and replaying functional test cases without writing complex code, making it suitable for quick validations of website features.

During the testing process, essential functionalities such as login, navigation menus, profile data verification, fee payment links, attendance display, and logout operations were tested thoroughly. The use of **assertions, element locators (XPath/CSS)**, and **browser-based execution** helped ensure the website's basic features are functioning as expected.

Automation through Selenium IDE not only improved test coverage but also saved manual testing time by enabling repetitive test case execution and easier defect detection.

In conclusion, the automated tests confirmed that the core functionalities of the **CU Student Portal** are stable under normal conditions. Continuous automation and updates to test scripts are recommended to maintain quality assurance as the website evolves.

7. References-

I.   Selenium IDE Documentation — https://www.selenium.dev/selenium-ide/
II.   Selenium Official Website — https://www.selenium.dev/
III. W3Schools — HTML, CSS, and JavaScript Basics — https://www.w3schools.com/
IV.   MDN Web Docs — Web Testing Fundamentals — https://developer.mozilla.org/en-US/docs/Learn/Tools_and_testing/Cross_browser_testing/Your_own_automation_environment
V.   Google Chrome Developer Tools — https://developer.chrome.com/docs/devtools/
VI.   CU Student Portal — https://students.cuchd.in/ (for real-time application testing)