

Software Test Plan

FYP Project: Automated Platform for Undergraduate Admissions (FYP-014/FL24)

S. No	Module	Description	Test Engineer	Start Date	End Date
1	User Registration & Login	Account creation, role-based login for student/admin	Zoya Sayeed	20-June-2025	21-June-2025
2	Profile Management	View, edit, and validate personal and academic info	Dua Rahim	21-June-2025	22-June-2025
3	Application Submission	Fill and submit admission form	Waleed Ahmed	23-June-2025	24-June-2025
4	Document Upload	Upload documents (PDF, images) with validation	Zoya Sayeed	24-June-2025	25-June-2025
5	Payment Gateway Integration	Fee payment via debit/credit card	Waleed Ahmed	25-June-2025	26-June-2025
6	Test Scheduling System	Student selects entry test slot	Dua Rahim	27-June-2025	28-June-2025
7	Admin Dashboard	Approve/reject applicants, generate merit list	Zoya Sayeed	29-June-2025	30-June-2025
8	Real-Time Notifications	SMS/Email alerts for key updates	Waleed Ahmed	31-June-2025	01-July-2025
9	Security and Compliance	Role access, encryption,	Zoya Sayeed	01-July-2025	02-July-2025

		SQL injection check			
10	Final Testing & Bug Fixing	Regression, integration, UI/UX testing	All Members	02-July-2025	02-July-2025

2. Test Scenarios and Test Cases

2.1 User Registration & Login

Test Case Description: Validate user registration and login with security and role-based redirection.

TC ID	Steps	Input Data	Expected Result	Actual Result	Pass/Fail
TC-01	Register as student	Valid user info	Account created & confirmation email sent	As expected	Pass
TC-02	Login as admin	Valid admin credentials	Redirect to Admin Dashboard	As expected	Pass
TC-03	Login with invalid password	Correct email, wrong pass	Error: Incorrect credentials	As expected	Pass
TC-04	Submit empty form	Blank fields	Error: Fields cannot be empty	As expected	Pass

2.2 Profile Management

Test Case Description: Ensure user can view/edit academic/personal data.

TC ID	Steps	Input	Expected Result	Actual Result	Pass/Fail
TC-05	View profile	Logged-in student	Profile fields populated	Same	Pass
TC-06	Edit phone no.	New phone number	Updated successfully	Updated	Pass

TC-07	Upload profile photo	Valid image	Image preview + saved	Preview works	Pass
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2.3 Application Submission

TC ID	Steps	Input	Expected Result	Actual Result	Pass/Fail
TC-08	Submit complete form	Personal + academic info	Application ID generated	App ID generated	Pass
TC-09	Leave academic details blank	Personal info only	Error: Incomplete form	Same	Pass

2.4 Document Upload

TC ID	Steps	Input	Expected Result	Actual Result	Pass/Fail
TC-10	Upload PDF	Matric result PDF	Upload success message	Same	Pass
TC-11	Upload oversized file	>5MB file	Error: File too large	Same	Pass

2.5 Payment Gateway Integration

TC ID	Steps	Input	Expected Result	Actual Result	Pass/Fail
TC-12	Pay using Visa	Valid card	Payment successful	Same	Pass
TC-13	Expired card	Invalid expiry date	Error: Payment failed	Same	Pass

2.6 Test Scheduling

TC ID	Steps	Input	Expected Result	Actual Result	Pass/Fail
TC-14	View slots	Logged-in user	List of available dates	Same	Pass

TC-15	Book a slot	Selected date/time	Confirmation message	Slot booked	Pass
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2.7 Admin Panel Functions

TC ID	Steps	Input	Expected Result	Actual Result	Pass/Fail
TC-16	Approve student	Student ID	Status changed to "Approved"	Same	Pass
TC-17	Generate merit list	All approved students	List with rankings	List generated	Pass

2.8 Notification System

TC ID	Steps	Input	Expected Result	Actual Result	Pass/Fail
TC-18	Submit form	Application submitted	SMS + Email alert	Sent successfully	Pass
TC-19	Payment done	Transaction complete	Notification sent	Sent	Pass

2.9 Security Tests

TC ID	Steps	Input	Expected Result	Actual Result	Pass/Fail
TC-20	SQL injection in login	' OR '1'='1	Input rejected	Error shown	Pass
TC-21	Access admin as student	Student credentials	Access denied	Denied	Pass