

Comprehensive Verification And Validation Plan

Booking Management Subsystem

#	Test Name	Test Input	Conditions/Test	Expected Output
1.	Select Module	Module name	Module Available	Display Tutors for module
		Module name	Module Unavailable	Display error message
2	Tutor Location	Location	Coordinates Accurate	Student and Tutor Location displayed on a live map
		Location	Location not Found	Error message is displayed
3	Select Tutor	Click Tutor Profile		Display Profile Information
4	Booking form	Booking Details	Correct booking format and details	Display populated form
		Booking details	Incorrect booking format and details	Redirect to empty form
5	Add Payment	Booking Amount	Accept booking amount	Redirect to payment gate
		Booking Amount	Decline Booking amount	Redirect to Booking form
6	Make Payment	Card details	Valid card details	Proceed to payment
		Card details	Invalid card details	Error message, retry
7	Process Payment	Fee	Sufficient funds	Complete booking
		Fee	Insufficient funds	Booking incomplete
8	Manage Booking	Booking details	View booking	Show booking details
		Booking details	Cancel booking	Remove booking session
		Booking details	Update booking	Display booking form

Invoice Management Subsystem

#	Test Name	Test Input	Condition/Test	Expected Output
1	Generate Invoices	Payment details	Successful payment	Issue invoice
2	Manage Invoices	Invoice ID	View invoice	Show invoice details
		Invoice ID	Update invoice	Display invoice form
		Invoice ID	Delete Invoice	Remove invoice

User Management Subsystem

#	Test Name	Test Input	Conditions/Test	Expected Output
1.	User Authentication	Username Password	User exists and password correct	Authenticate the user. Redirect the user to home page
		Username Password	User does not exist	Display an authentication error message
		Username Password	User exists but the password is incorrect	Display an authentication error message, prompt user to retry
		Username Password	User exists and password is correct but the account is disabled	Display contact administrator message
2.	User Registration	User Details	User does not exist	Register the user. Redirect the user to home page
		User Details	User exists	Display registration error message, redirect to Login Page
3.	Manage account	User email	Email exists and valid	Update or Remove Account
		User email	Email exists but Invalid	Error Message, Retry
4.	Upload Qualifications	Files	Wrong format, File too large	Error message, try again
		Files	Correct format	File upload

In-Session Management Subsystem

#	Test Name	Test Input	Condition/Test	Expected Output
1.	Extend Time	Time (SAST) format	Correct time	Display new time slot
		Time (SAST) format	Time has elapsed	Display error message
2	Make Payment	Card details	Valid card details	Proceed to payment
		Card details	Invalid card details	Error message, retry
3	Process Payment	Fee	Sufficient funds	Complete booking
		Fee	Insufficient funds	Booking incomplete

Session Management Subsystem

#	Test Name	Test Input	Condition/Test	Expected Output
1	Create Session	Session Details	Valid details	Add session
2	Delete Session	Session ID	Confirm deletion	Remove session
		Session ID	Cancel deletion	Redirect to the sessions page
3	Manage tutor	Tutor qualifications, Quiz score	Add tutor account	Notify tutor: accepted
		Tutor qualifications, Quiz score	Remove tutor account	Notify tutor: declined

Report Management Subsystem

#	Test Name	Test Input	Condition/Test	Expected Output
1	Generate Reports	Session details	Successful Session	Issue report
		Session details	Cancelled Session: Before 24 hours	Issue report
		Session Details	Cancelled Session: Within 24 hours	Notify user: pending payment
2	Manage Reports	Report ID	View report	Display report details
		Report ID	Update report	Display report form
		Report ID	Delete Report	Remove report