

# Test Suite For A School Application System

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## Test Case 1: Valid Login

Field	Value
Test Case ID	TC001_Login
Test Description	Verify successful login with valid credentials.
Preconditions	User is on login page.
Test Data	Username: admin Password: admin123
Test Steps	1. Navigate to login page 2. Enter username 3. Enter password 4. Click Login button
Expected Results	Redirected to menu.html dashboard.
Actual Results	Successfully redirected to dashboard.
Status	Pass
Error Logs	None
Notes	Credentials must exist in logindetails table.
Tester	Khwezilokusa Maphalala
Date	20 June 2025

## Test Case 2: Add New Truck

Field	Value
Test Case ID	TC002_Add_Truck
Test Description	Verify new truck details can be added.
Preconditions	User logged in; on Add Truck page.
Test Data	Brand: Volvo Model: FH16 Date Bought: 2023-10-15 VIN: VF7RD5FJ8EM346589 Plate: TRK-001 License Disk: 2024-12-31
Test Steps	1. Fill all fields 2. Click Submit
Expected Results	Redirected to viewTruckBrief.jsp with success message.
Actual Results	Record added to truckmanagement table; success page shown.
Status	Pass
Error Logs	None
Notes	VIN must be unique.
Tester	Khwezilokusa Maphalala
Date	20 June 2025

### Test Case 3: Add Service Record

Field	Value
Test Case ID	TC003_Add_Service
Test Description	Verify service details can be added for a truck.
Preconditions	Truck exists in system; user on Add Service page.
Test Data	Brand: Volvo Model: FH16 Date Bought: 2023-10-15 VIN: VF7RD5FJ8EM346589 Plate: TRK-001 Kilometers: 15000 Diagnosis: Oil change Cost: 250
Test Steps	1. Fill all mandatory fields 2. Click Submit
Expected Results	Redirected to viewServiceBrief.jsp with confirmation.
Actual Results	Record added to servicemanagement table.
Status	Pass
Error Logs	None
Notes	VIN must match existing truck record.
Tester	Khwezilokusa Maphalala
Date	20 June 2025

### Test Case 4: Add Traffic Offense

Field	Value
Test Case ID	TC004_Add_Offense
Test Description	Verify traffic offense can be recorded.
Preconditions	Driver and vehicle exist; user on Add Offense page.
Test Data	Date: 2023-11-01 Offense: Speeding Amount: 1500 Driver: John Doe Vehicle: TRK-001
Test Steps	1. Complete all fields 2. Submit form
Expected Results	Redirected to viewtrafficOffence.jsp with success notification.
Actual Results	Record added to trafficoffencemanagement table.
Status	Pass
Error Logs	None
Notes	Driver name should match employee records.
Tester	Khwezilokusa Maphalala
Date	20 June 2025

### Test Case 5: Update Employee Details

Field	Value
Test Case ID	TC005_Update_Employee
Test Description	Verify employee contact details can be updated.
Preconditions	Employee exists; user on update form (e.g., ID=5).
Test Data	Contact Number: +27731234567 Email: updated@example.com
Test Steps	1. Load existing record 2. Modify contact fields 3. Submit
Expected Results	Redirected to view page with updated data.
Actual Results	employeemanagement table updated successfully.
Status	Pass
Error Logs	None
Notes	ID field is read-only during update.
Tester	Khwezilokusa Maphalala
Date	20 June 2025

### Test Case 6: View Fuel Records

Field	Value
Test Case ID	TC006_View_Fuel
Test Description	Verify fuel management records display correctly.
Preconditions	User logged in; on View Fuel Entries page.
Test Data	N/A (Read-only operation)
Test Steps	1. Navigate to updateFuelBrief.jsp 2. Verify table loads
Expected Results	Data grid shows all fuel records with ID, Truck, Date, Amount.
Actual Results	Records retrieved from fuelmanagement table; search functional.
Status	Pass
Error Logs	None
Notes	Requires existing fuel records in DB.
Tester	Khwezilokusa Maphalala
Date	20 June 2025

### Test Case 7: Invalid Login

Field	Value
Test Case ID	TC007_Invalid_Login
Test Description	Verify login fails with invalid credentials.
Preconditions	User on login page.
Test Data	Username: invalid Password: wrongpass
Test Steps	1. Enter invalid credentials 2. Click Login
Expected Results	Stays on login page; no redirection.
Actual Results	LoginProcess.jsp validation failed; no session created.
Status	Pass
Error Logs	None
Notes	Error message should be implemented.
Tester	Khwezilokusa Maphalala
Date	20 June 2025



### Test Case 8: Add Truck Missing VIN

Field	Value
Test Case ID	TC008_Truck_Validation
Test Description	Verify form rejects submission when VIN is missing.
Preconditions	User on Add Truck page.
Test Data	All fields except VIN populated.
Test Steps	1. Leave VIN blank 2. Click Submit
Expected Results	Form shows validation error; no DB insert.
Actual Results	Browser validation triggered; form not submitted.
Status	Pass
Error Logs	None
Notes	HTML5 required attribute enforced.
Tester	Khwezilokusa Maphalala
Date	20 June 2025

## Test Case 9: View Route Brief

Test Case ID	TC009_ViewRouteBrief
Test Description	Verify routes are displayed correctly in brief view
Preconditions	1. Admin logged in 2. Database contains route records
Test Data	Valid session, existing route records
Test Steps	1. Navigate to Route > View Routes 2. Check table headers 3. Verify records appear 4. Test search functionality
Expected Results	- All columns visible (ID, Date, Truck Plate, etc.) - Records displayed - Search filters data
Actual Results	Search Functionality works as expected. Records appear as expected.
Status	[Pass/Fail]
Error Logs	None
Notes	Verify pagination if many records exist
Tester	Khwezi Maphalala
Date	20 June 2025

