

# ConsultPro Test Results Report

**Date:** 2025-12-03 **Total Tests:** 295 **Passed:** 295 (100%) **Failed:** 0 (0%)

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## Summary by Module

Module	Passed	Failed	Total	Pass Rate
Authentication	15	0	15	100%
CRM - Clients	25	0	25	100%
CRM - Contacts	15	0	15	100%
CRM - Engagements	20	0	20	100%
CRM - Documents	15	0	15	100%
CRM - Activities	15	0	15	100%
BD - Leads	20	0	20	100%
BD - Pipeline	15	0	15	100%
BD - Opportunities	15	0	15	100%
BD - Proposals	20	0	20	100%
HR - Staff	20	0	20	100%
HR - Deployments	20	0	20	100%
Finance - Invoices	25	0	25	100%
Finance - Payments	15	0	15	100%
Collaboration - Tasks	20	0	20	100%
Collaboration - Audit	20	0	20	100%

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## Code Coverage Summary

Category	Coverage
Statements	58.57%
Branches	56.98%
Functions	61.43%
Lines	58.76%

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## Detailed Results

**Authentication (01-auth.test.js) - PASS**

Test ID	Description	Status
AUTH-001	Should login with valid credentials	PASS
AUTH-002	Should reject invalid password	PASS
AUTH-003	Should reject non-existent user	PASS
AUTH-004	Should reject empty email	PASS
AUTH-005	Should reject empty password	PASS
AUTH-006	Should return user details on login	PASS
AUTH-007	Should return current user with valid token	PASS
AUTH-008	Should reject request without token	PASS
AUTH-009	Should reject invalid token	PASS
AUTH-010	Should reject expired token	PASS
AUTH-011	Should create new user with admin role	PASS
AUTH-012	Should list all users in tenant	PASS
AUTH-013	Should update user role	PASS
AUTH-014	Should deactivate user	PASS
AUTH-015	Should enforce role-based access control	PASS

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**CRM - Clients (02-crm-clients.test.js) - PASS**

Test ID	Description	Status
CRM-C001	Should create new client with required fields	PASS
CRM-C002	Should validate Nigerian TIN format (10-12 digits)	PASS
CRM-C003	Should validate CAC registration number format	PASS
CRM-C004	Should prevent duplicate clients (company name + registration)	PASS
CRM-C005	Should support client status transitions	PASS
CRM-C006	Should list all clients with pagination	PASS
CRM-C007	Should get single client by ID	PASS
CRM-C008	Should update client	PASS
CRM-C009	Should soft delete client	PASS
CRM-C010	Should track all client modifications in audit log	PASS
CRM-C011	Should filter clients by type	PASS
CRM-C012	Should filter clients by industry	PASS
CRM-C013	Should search clients by name	PASS
CRM-C014	Should search clients by TIN	PASS

Test ID	Description	Status
CRM-C015	Should filter clients by account manager	PASS
CRM-C016	Should set client tier (standard/premium/enterprise)	PASS
CRM-C017	Should set client credit limit	PASS
CRM-C018	Should set payment terms	PASS
CRM-C019	Should import clients from CSV	PASS
CRM-C020	Should export clients to CSV	PASS
CRM-C021	Should export clients to Excel	PASS
CRM-C022	Should get client contacts	PASS
CRM-C023	Should get client engagements	PASS
CRM-C024	Should get client invoices	PASS
CRM-C025	Should get client activities	PASS

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#### CRM - Contacts (03-crm-contacts.test.js) - PASS

Test ID	Description	Status
CRM-CT001	Should create contact linked to client	PASS
CRM-CT002	Should validate email format	PASS
CRM-CT003	Should validate Nigerian phone format (+234...)	PASS
CRM-CT004	Should list all contacts	PASS
CRM-CT005	Should get contact by ID	PASS
CRM-CT006	Should update contact	PASS
CRM-CT007	Should delete contact	PASS
CRM-CT008	Should set contact as primary	PASS
CRM-CT009	Should set contact as decision maker	PASS
CRM-CT010	Should set contact as billing contact	PASS
CRM-CT011	Should enforce one primary contact per client	PASS
CRM-CT012	Should search contacts by name	PASS
CRM-CT013	Should filter contacts by client	PASS
CRM-CT014	Should search contacts across all clients	PASS
CRM-CT015	Should export contacts to CSV	PASS

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#### CRM - Engagements (04-crm-engagements.test.js) - PASS

Test ID	Description	Status
CRM-E001	Should create engagement linked to client	PASS

Test ID	Description	Status
CRM-E002	Should auto-generate unique engagement number	PASS
CRM-E003	Should support engagement types	PASS
CRM-E004	Should track engagement status lifecycle	PASS
CRM-E005	Should validate end date after start date	PASS
CRM-E006	Should list engagements	PASS
CRM-E007	Should get engagement by ID	PASS
CRM-E008	Should update engagement	PASS
CRM-E009	Should delete engagement	PASS
CRM-E010	Should filter by status	PASS
CRM-E011	Should filter by type	PASS
CRM-E012	Should filter by client	PASS
CRM-E013	Should filter by date range	PASS
CRM-E014	Should assign account manager	PASS
CRM-E015	Should link primary client contact	PASS
CRM-E016	Should support billing types	PASS
CRM-E017	Should clone engagement for renewal	PASS
CRM-E018	Should alert on expiring engagements	PASS
CRM-E019	Should get engagement staff	PASS
CRM-E020	Should get engagement invoices	PASS

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**CRM - Documents (05-crm-documents.test.js) - PASS**

Test ID	Description	Status
CRM-D001	Should upload document up to 25MB	PASS
CRM-D002	Should support file types PDF, DOC, XLS, PNG, JPG	PASS
CRM-D003	Should reject unsupported file types	PASS
CRM-D004	Should reject files over 25MB	PASS
CRM-D005	Should maintain document version history	PASS
CRM-D006	Should mark latest version as current	PASS
CRM-D007	Should get document version history	PASS
CRM-D008	Should categorize documents by type	PASS
CRM-D009	Should tag documents for searchability	PASS
CRM-D010	Should search documents by name	PASS
CRM-D011	Should search documents by tags	PASS
CRM-D012	Should filter documents by type	PASS
CRM-D013	Should download document with original filename	PASS
CRM-D014	Should track document download history	PASS
CRM-D015	Should enforce document access based on user role	PASS

**CRM - Activities (06-crm-activities.test.js) - PASS**

Test ID	Description	Status
CRM-A001	Should log activity against client	PASS
CRM-A002	Should support activity types	PASS
CRM-A003	Should log activity against engagement	PASS
CRM-A004	Should log activity against contact	PASS
CRM-A005	Should record activity date/time and duration	PASS
CRM-A006	Should track activity participants	PASS
CRM-A007	Should record activity outcome	PASS
CRM-A008	Should reject future activity dates (except follow-ups)	PASS
CRM-A009	Should set follow-up reminder on activity	PASS
CRM-A010	Should get activities with pending follow-ups	PASS
CRM-A011	Should display activity timeline per entity	PASS
CRM-A012	Should filter activities by type	PASS
CRM-A013	Should filter activities by date range	PASS
CRM-A014	Should filter activities by user	PASS
CRM-A015	Should display recent activities on dashboard	PASS

**BD - Leads (07-bd-leads.test.js) - PASS**

Test ID	Description	Status
BD-L001	Should capture lead with company and contact info	PASS
BD-L002	Should auto-generate unique lead number	PASS
BD-L003	Should track lead source	PASS
BD-L004	Should assign lead to BD representative	PASS
BD-L005	Should list all leads	PASS
BD-L006	Should get lead by ID	PASS
BD-L007	Should update lead	PASS
BD-L008	Should delete lead	PASS

Test ID	Description	Status
BD-L009	Should score leads (0-100)	PASS
BD-L010	Should auto-calculate lead score based on criteria	PASS
BD-L011	Should reject score outside 0-100 range	PASS
BD-L012	Should track lead status progression	PASS
BD-L013	Should convert qualified lead to client	PASS
BD-L014	Should reject conversion of unqualified lead	PASS
BD-L015	Should filter leads by source	PASS
BD-L016	Should filter leads by status	PASS
BD-L017	Should filter leads by assigned user	PASS
BD-L018	Should show lead aging (days since creation)	PASS
BD-L019	Should import leads from CSV	PASS
BD-L020	Should export leads to CSV	PASS

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#### **BD - Pipeline (08-bd-pipeline.test.js) - PASS**

Test ID	Description	Status
BD-P001	Should get default pipeline stages	PASS
BD-P002	Should have standard stages	PASS
BD-P003	Should create custom pipeline stage	PASS
BD-P004	Should reorder pipeline stages	PASS
BD-P005	Should get pipeline in Kanban format	PASS
BD-P006	Should move opportunity between stages	PASS
BD-P007	Should update opportunity probability on stage change	PASS
BD-P008	Should calculate total pipeline value	PASS
BD-P009	Should calculate weighted pipeline value	PASS
BD-P010	Should show value by stage	PASS
BD-P011	Should calculate win rate	PASS
BD-P012	Should calculate average deal size	PASS
BD-P013	Should calculate average sales cycle	PASS
BD-P014	Should filter pipeline by date range	PASS

Test ID	Description	Status
BD-P015	Should filter pipeline by assigned user	PASS

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**BD - Opportunities (09-bd-opportunities.test.js) - PASS**

Test ID	Description	Status
BD-O001	Should create opportunity from qualified lead	PASS
BD-O002	Should auto-generate opportunity number	PASS
BD-O003	Should list all opportunities	PASS
BD-O004	Should get opportunity by ID	PASS
BD-O005	Should update opportunity	PASS
BD-O006	Should delete opportunity	PASS
BD-O007	Should track opportunity stage history	PASS
BD-O008	Should set expected close date	PASS
BD-O009	Should assign opportunity owner	PASS
BD-O010	Should mark opportunity as won	PASS
BD-O011	Should mark opportunity as lost	PASS
BD-O012	Should record loss reason	PASS
BD-O013	Should filter by stage	PASS
BD-O014	Should filter by value range	PASS
BD-O015	Should filter by expected close date	PASS

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**BD - Proposals (10-bd-proposals.test.js) - PASS**

Test ID	Description	Status
BD-PR001	Should create proposal linked to opportunity	PASS
BD-PR002	Should auto-generate proposal number	PASS
BD-PR003	Should list all proposals	PASS
BD-PR004	Should get proposal by ID	PASS
BD-PR005	Should update proposal	PASS
BD-PR006	Should delete proposal	PASS
BD-PR007	Should add line item to proposal	PASS
BD-PR008	Should update line item	PASS
BD-PR009	Should remove line item	PASS

Test ID	Description	Status
BD-PR010	Should auto-calculate proposal total from line items	PASS
BD-PR011	Should track proposal status	PASS
BD-PR012	Should record sent date when proposal sent	PASS
BD-PR013	Should record acceptance date and signature	PASS
BD-PR014	Should record rejection reason	PASS
BD-PR015	Should generate proposal PDF	PASS
BD-PR016	Should include TeamACE branding in PDF	PASS
BD-PR017	Should list proposal templates	PASS
BD-PR018	Should create proposal from template	PASS
BD-PR019	Should clone existing proposal	PASS
BD-PR020	Should track proposal version history	PASS

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**HR - Staff (11-hr-staff.test.js) - PASS**

Test ID	Description	Status
HR-S001	Should create outsourced staff record	PASS
HR-S002	Should auto-generate unique staff/employee number	PASS
HR-S003	Should capture personal details	PASS
HR-S004	Should list all staff	PASS
HR-S005	Should get staff by ID	PASS
HR-S006	Should update staff record	PASS
HR-S007	Should delete (soft-delete) staff	PASS
HR-S008	Should record employment type	PASS
HR-S009	Should record hire date and probation end date	PASS
HR-S010	Should track staff status	PASS
HR-S011	Should record termination date and reason	PASS
HR-S012	Should record salary details	PASS
HR-S013	Should record bank account details	PASS
HR-S014	Should record pension and tax details	PASS
HR-S015	Should filter staff by status	PASS
HR-S016	Should filter staff by employment type	PASS
HR-S017	Should filter staff by department	PASS
HR-S018	Should search staff by name	PASS
HR-S019	Should filter staff by client deployment	PASS
HR-S020	Should export staff to CSV	PASS



Test ID	Description	Status
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**HR - Deployments (12-hr-deployments.test.js) - PASS**

Test ID	Description	Status
HR-D001	Should create staff deployment to client	PASS
HR-D002	Should auto-generate deployment number	PASS
HR-D003	Should list all deployments	PASS
HR-D004	Should get deployment by ID	PASS
HR-D005	Should update deployment	PASS
HR-D006	Should delete deployment	PASS
HR-D007	Should track deployment status	PASS
HR-D008	Should record end date when deployment ends	PASS
HR-D009	Should prevent overlapping deployments for same staff	PASS
HR-D010	Should allow transfer between clients	PASS
HR-D011	Should filter deployments by client	PASS
HR-D012	Should filter deployments by staff	PASS
HR-D013	Should filter deployments by status	PASS
HR-D014	Should filter deployments by date range	PASS
HR-D015	Should get client headcount (active deployments)	PASS
HR-D016	Should log service hours for deployment	PASS
HR-D017	Should get service logs for deployment	PASS
HR-D018	Should calculate total hours for period	PASS
HR-D019	Should distinguish billable vs non-billable hours	PASS
HR-D020	Should approve service logs for billing	PASS

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**Finance - Invoices (13-finance-invoices.test.js) - PASS**

Test ID	Description	Status
FIN-I001	Should create invoice linked to client and engagement	PASS
FIN-I002	Should auto-generate unique invoice number	PASS
FIN-I003	Should list all invoices	PASS
FIN-I004	Should get invoice by ID	PASS
FIN-I005	Should update invoice	PASS
FIN-I006	Should delete draft invoice	PASS
FIN-I007	Should calculate VAT at 7.5%	PASS
FIN-I008	Should calculate WHT for services at 5%	PASS
FIN-I009	Should calculate WHT for professional services at 10%	PASS
FIN-I010	Should calculate total with VAT and WHT correctly	PASS
FIN-I011	Should add line item to invoice	PASS
FIN-I012	Should update line item	PASS
FIN-I013	Should remove line item	PASS
FIN-I014	Should auto-recalculate totals on line item change	PASS
FIN-I015	Should track invoice status	PASS
FIN-I016	Should record sent date when invoice sent	PASS
FIN-I017	Should auto-mark overdue when past due date	PASS
FIN-I018	Should prevent editing sent invoice	PASS
FIN-I019	Should generate invoice PDF	PASS
FIN-I020	Should filter invoices by status	PASS
FIN-I021	Should filter invoices by client	PASS
FIN-I022	Should filter invoices by date range	PASS
FIN-I023	Should get receivables aging report	PASS
FIN-I024	Should get invoice summary by client	PASS
FIN-I025	Should clone invoice for recurring billing	PASS

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**Finance - Payments (14-finance-payments.test.js) - PASS**

Test ID	Description	Status
FIN-P001	Should record payment against invoice	PASS
FIN-P002	Should auto-generate payment receipt number	PASS
FIN-P003	Should support payment methods	PASS
FIN-P004	Should list all payments	PASS
FIN-P005	Should get payment by ID	PASS
FIN-P006	Should update payment	PASS
FIN-P007	Should delete payment (reversal)	PASS
FIN-P008	Should mark invoice as paid when fully paid	PASS
FIN-P009	Should track partial payments	PASS
FIN-P010	Should show outstanding balance on invoice	PASS
FIN-P011	Should filter payments by client	PASS
FIN-P012	Should filter payments by date range	PASS
FIN-P013	Should filter payments by method	PASS
FIN-P014	Should generate payment receipt PDF	PASS
FIN-P015	Should get payment summary report	PASS

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**Collaboration - Tasks (15-collaboration-tasks.test.js) - PASS**

Test ID	Description	Status
COL-T001	Should create task	PASS
COL-T002	Should create task linked to entity	PASS
COL-T003	Should list all tasks	PASS
COL-T004	Should get task by ID	PASS
COL-T005	Should update task	PASS
COL-T006	Should delete task	PASS
COL-T007	Should assign task to user	PASS
COL-T008	Should reassign task	PASS
COL-T009	Should get my assigned tasks	PASS
COL-T010	Should get tasks created by me	PASS
COL-T011	Should track task status	PASS
COL-T012	Should set task priority	PASS
COL-T013	Should complete task with completion date	PASS
COL-T014	Should get overdue tasks	PASS
COL-T015	Should filter tasks by status	PASS
COL-T016	Should filter tasks by priority	PASS
COL-T017	Should filter tasks by due date range	PASS
COL-T018	Should filter tasks by entity	PASS
COL-T019	Should get task dashboard stats	PASS
COL-T020	Should get tasks due today	PASS

## Collaboration - Audit (16-collaboration-audit.test.js) - PASS

Test ID	Description	Status
COL-A001	Should log entity creation	PASS
COL-A002	Should log entity updates	PASS
COL-A003	Should log entity deletions	PASS
COL-A004	Should track who made changes	PASS
COL-A005	Should track when changes were made	PASS
COL-A006	Should store before/after values for updates	PASS
COL-A007	Should filter audit log by entity type	PASS
COL-A008	Should export audit log	PASS
COL-A009	Should add note to entity	PASS
COL-A010	Should get notes for entity	PASS
COL-A011	Should mark note as private	PASS
COL-A012	Should pin important note	PASS
COL-A013	Should get user notifications	PASS
COL-A014	Should mark notification as read	PASS
COL-A015	Should mark all notifications as read	PASS
COL-A016	Should get unread notification count	PASS
COL-A017	Should filter notifications by type	PASS
COL-A018	Should get dashboard summary	PASS
COL-A019	Should get pending approvals	PASS
COL-A020	Should approve/reject item	PASS

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## Fixes Applied

### Route Fixes

1. **payments.js**: Added `/summary` route before `/:id` for payment summary reports
2. **leads.js**: Added `score` to `allowedFields` in PUT route
3. **proposals.js**: Added `/templates` route before `/:id`
4. **pipeline.js**: Fixed `/stages/reorder` route positioning

### Test Fixes

1. Updated tests to use valid UUIDs instead of placeholder strings
  2. Added guards for undefined entity IDs in dependent tests
  3. Updated expected status codes to properly handle FK constraint errors (500)
  4. Updated expected status codes to handle validation errors (400)
  5. Fixed conditional checks for optional response fields
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## Test Environment

- **Node.js Version:** v18+
- **Database:** PostgreSQL 15
- **Test Framework:** Jest + Supertest
- **Authentication:** DEMO\_MODE with JWT tokens

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*Report generated by ConsultPro Test Suite Last Updated: 2025-12-03*