

1. Payments vs Invoices

Changes Implemented:

- Payments are now properly linked to invoices
- Invoice status updates automatically upon payment creation
- Payment amount auto-fills when selecting an invoice
- Payment receipt print functionality added

Testing Locations (4 Dashboards):

A. Admin Dashboard

Location: Admin Dashboard → Clients → [Select Client] → Payments Tab

Testing Steps:

1. Log in to Admin Dashboard
2. Click "Clients" in left sidebar
3. Open any client profile
4. Navigate to "Payments" tab
5. Click "Add Payment" button
6. *Verify:
 -  All invoices appear in invoice dropdown
 -  "Amount" field auto-fills with invoice due amount upon selection
 -  Complete payment details (Date, Payment Method, Notes)
 -  Click "Save Payment"
 -  New payment appears in payment list
 -  Invoice status updates correctly (Partially Paid / Fully Paid)

- Invoice list refreshes with updated status

Payment Receipt Print:

1. Click "Print Receipt" button next to any payment

2. *Verify:*

- Print window opens successfully
- Receipt displays payment details (Amount, Date, Invoice No.)

*B. Client Dashboard*

Location: Client Dashboard → Invoices → [Select Invoice]

→ Add Payment

Testing Steps:

1. Log in to Client Dashboard

2. Click "Invoices" in left sidebar

3. Open any invoice

4. *Verify:*

- "Add Payment" button is visible
- Invoice number is pre-filled
- "Amount Due" displays correctly

5. Click "Add Payment"

6. In payment modal:

- Invoice number is pre-selected
- Amount auto-fills with due amount

7. Complete payment details and click "Save"

8. *Verify:*

- New payment appears in Payment History
- Invoice status updates
- Balance Due reflects updated amount

Alternative Location: Client Dashboard → Payments → Add Payment

Testing Steps:

1. Open "Payments" page in Client Dashboard
2. Click "Add Payment"
3. *Verify:*

 - All invoices appear in dropdown
 - Amount auto-fills upon invoice selection

4. Save payment
5. *Verify:*

 - Payment appears in payment list

C. Admin Dashboard - Invoice Detail

Location: Admin Dashboard → Invoices → [Select Invoice] → Payments Button

Testing Steps:

1. Open "Invoices" in Admin Dashboard
2. Select any invoice
3. Click "Payments" button
4. *Verify:*

 - Payment history displays correctly
 - "Add Payment" button is available

5. Add payment and verify invoice status updates

2. Task Comments System

Changes Implemented:

- User name and timestamp display for all comments

📈 Testing Locations (4 Dashboards):

A. Admin Dashboard

Location: Admin Dashboard → Tasks → [Select Task] → Comments Section

Testing Steps:

1. Open "Tasks" → Select any task

2. Scroll to Comments section

3. *Verify:*

- Existing comments display (if any)

- Comment input box is available

4. Type comment → Click "Add Comment"/"Post"

5. *Verify:*

- Comment appears immediately

- User name and timestamp display correctly

- Comment persists after page refresh

B. Client Dashboard

Location: Client Dashboard → Tasks → [Select Task] → Comments

Testing Steps:

1. Open "Tasks" → Select task

2. Add comment

3. *Verify:*

- Comment saves successfully

- Comment appears in comment list

C. Employee Dashboard

Location: Employee Dashboard → My Tasks → [Select Task] → Comments

Testing Steps:

1. Open "My Tasks" → Select task
2. Add comment
3. ***Verify:***
 - Comment saves successfully
 - Comment displays correctly with metadata

*D. Project Detail (Admin)*

Location: Admin Dashboard → Projects → [Select Project] → Tasks Tab → [Select Task] → Comments

Testing Steps:

1. Open project → Navigate to Tasks tab → Open task
2. Add comment and verify display

3. Client Statement

*A. Admin Dashboard*

Location: Admin Dashboard → Clients → [Select Client] → Statement Tab

Testing Steps:

1. Open "Clients" → Select client with invoices/payments
2. Click "Statement" tab
3. ***Verify:***
 - Statement data loads correctly
 - Invoices list shows (Invoice No., Date, Amount, Status)
 - Payments list shows (Payment Date, Amount, Invoice No.)
 - Running balance calculates accurately

- Summary displays: Opening Balance, Total Invoiced, Total Paid, Balance Due
4. Apply date range filter (Start Date, End Date)
 5. *Verify:
 - Filtered data displays correctly
 6. Click "Print Statement"
 7. *Verify:
 - Print window opens
 - Statement prints with proper formatting

4. Contract Module

Changes Implemented:

- Contract templates system
- Rich Text Editor integration
- Template-based contract creation
- Dynamic field replacement (Client Name, Project Name, etc.)
- Template switching functionality
- PDF generation (conceptual)
- Email sending capability

Testing Location:

A. Admin Dashboard

Location: Admin Dashboard → Contracts → Add/Edit Contract

Testing Steps:

1. Open "Contracts" → Click "Add Contract"

2. *Verify:*

- Contract form loads
- "Select Template" dropdown available

3. Select template

4. *Verify:*

- Template content loads automatically
- Rich Text Editor displays content
- Dynamic fields populate correctly

5. Complete contract:

- Select Client/Project
- Add contract items (Description, Quantity, Rate, Amount)
- Edit terms via Rich Text Editor

6. Click "Save Contract"

7. *Verify:*

- Contract saves successfully
- Appears in contract list

Change Template:

1. Edit existing contract → Click "Change Template"

2. *Verify:*

- Template selection modal opens
- Templates list displays with search functionality

3. Select new template

4. *Verify:*

- Warning appears for unsaved changes
- Content updates to new template

Contract Actions:

- "Send Email": Triggers email send
- "Download PDF": Downloads PDF (if implemented)
- "Print": Opens print window

5. Client Notes

⚒ Testing Location:

A. Admin Dashboard

Location: Admin Dashboard → Clients → [Select Client]
→ Notes Tab

Testing Steps:

1. Open client profile → Click "Notes" tab
2. *Verify:
 - Existing notes display (if any)
 - "Add Note" button available
3. Click "Add Note"
4. In modal:
 - Title field present
 - Content field (Rich Text Editor) available
 - File attachment option visible (if implemented)
5. Save note
6. *Verify:
 - Note appears immediately
 - User name and timestamp display
 - Note persists after refresh

Edit/Delete Note:

1. Click "Edit" on existing note → Verify edits save
2. Click "Delete" → Verify note removes permanently

6. Comment Boxes (All Modules)

Changes Implemented:

- Project comments fixed (using notes API)
- Task comments fixed (using task_comments table)
- Client comments fixed (using notes API)
- Enhanced validation and error handling

Testing Locations:

A. Project Comments (Admin Dashboard)

Location: Admin Dashboard → Projects → [Select Project] → Comments Tab

Testing Steps:

1. Open project → Click "Comments" tab
2. Add comment → Click "Add Comment"
3. *Verify:*

-  Comment saves successfully
-  Comment appears in list
-  No "Failed to connect" errors

B. Task Comments

(Covered in Section 2)

C. Client Comments

(Covered in Section 5 - Notes)

D. Discussion Comments

Note:
Discussion comments not yet implemented (separate system). Test only if available.

7. Roles & Permissions

Changes Implemented:

- Complete roles & permissions system
- Dynamic module management
- Granular permissions (View, Add, Edit, Delete)
- Role assignment to users
- Permission-checking middleware
- Default roles auto-creation

Testing Location:

A. Admin Dashboard

Location: Admin Dashboard → System & Settings → Roles & Permissions

Testing Steps:

1. Navigate to Roles & Permissions
2. *Verify:*

 -  Roles list displays
 -  Default roles visible (ADMIN, EMPLOYEE, CLIENT, MANAGER, HR)

3. Click "Add Role" → Create "Test Role"
4. *Verify:*

 -  Role creates successfully
 -  Appears in roles list

Set Permissions:

1. Click "Permissions" for any role

2. *Verify:*

- Permission modal opens
- Modules list with checkboxes (View, Add, Edit, Delete) displays

3. Configure permissions → Click "Save Permissions"

4. *Verify:*

- Permissions save successfully
- Modal closes

8. Staff Login & Role-Based Access

Changes Implemented:

- Employee dashboard now role-based
- Permission checks on all actions
- Dynamic menu items based on permissions
- Module visibility controlled by permissions

Testing Location:

A. Employee Dashboard

Location: Employee Dashboard (Login as Employee)

Testing Steps:

1. Log in with Employee account

2. *Verify:*

- Dashboard loads
- Stats cards show only permitted modules

3. Check left sidebar

4. *Verify:*

- Only permitted menu items visible

- Restricted items hidden

*Page-Specific Verification:

- **My Tasks:** "Add Task"/"Edit" buttons visible only with respective permissions
- **My Projects:** Page accessible only with `canView('myProjects')`
- **Time Tracking:** "Add Time Entry" visible only with `canAdd('timeTracking')`
- **Attendance:** "Check In/Out" visible only with `canAdd('attendance')`
- **Leave Requests:** "Add Leave"/"Edit" visible per permissions

*Permission Test:

1. Assign Employee "View Only" permissions for Tasks
2. Log in as Employee
3. *Verify:
 - Tasks page accessible
 - "Add Task" and "Edit" buttons hidden

9. Activities System

Changes Implemented:

- Activities table created
- Activities API implemented
- Project Detail page shows real activities (no mock data)

Testing Location:

A. Admin Dashboard

Location: Admin Dashboard → Projects → [Select Project] → Activities Tab

Testing Steps:

1. Open project → Click "Activities" tab

2. *Verify:*

- Activities list loads
- Real activities display (no mock data)
- Shows User, Action, Description, Timestamp

3. Perform action in project (e.g., add task)

4. *Verify:*

- Activity logs automatically
- List refreshes with new activity

Note: Activity logging requires manual implementation in controllers via `activityController.logActivity`.

10. Task Labels System

Changes Implemented:

- Labels load from database (no hardcoded values)
- Labels persist to database on add/delete
- Default labels auto-create on first load

Testing Location:

A. Admin Dashboard

Location: Admin Dashboard → Tasks → Manage Labels

Testing Steps:

1. Open Tasks page → Click "Manage Labels"
2. ***Verify:***
 - Labels load from database
 - Default labels visible (Bug, Design, Enhancement, Feedback)
3. ***Add Label:***
 - Enter name (e.g., "Urgent") + select color → Click "Add"
 - Label saves to database and appears immediately
4. ***Delete Label:***
 - Click delete icon → Label removes from DB and UI
5. ***Use in Tasks:***
 - Assign label when creating/editing task
 - Label saves with task and displays on task detail page