

Branch-wise Consolidated Report

Branch-wise Implementation Guide (End-to-End)

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Goal

Make the entire application **branch-aware** so that: - Every page loads data **branch-wise** (no cross-branch leakage by default) - All transactions (Orders → Items → Kitchen/Bar tickets → Payments → Closing → Reports) are **scoped to the active branch** - Master pages (Menu, Categories, Tables, Counters, Users, Settings, etc.) are either: - Branch-owned and filtered by branch, or - Global but optionally overridable per branch (explicitly designed)

This guide describes the recommended approach, design decisions, schema changes, rollout steps, and validation checklist.

1) Decide the Branch Model (must be finalized first)

1.1 Users and Branch access

Choose one: 1) **Single-branch user** (simplest): each user belongs to exactly one branch. 2) **Multi-branch user**: user can access multiple branches and must select an **Active Branch**. 3) Add **privileged roles** that can view multiple or all branches.

Recommended for growth: **multi-branch access with a required Active Branch**.

1.2 What is branch-owned vs global?

Create a table (design contract) for every major entity:

Typically branch-owned (recommended) - Tables, Table Sections - Counters / POS terminals - Orders, OrderItems, KitchenTickets, Bar tickets (BOT) - Payments, PaymentSplits, Refunds, Complimentary - Day closing / cash closing / collection register - Audit trail (if it contains branch-sensitive data)

Typically global (optional) - Menu master (Categories, MenuItems, Modifiers) - Tax rules, configuration defaults

Hybrid pattern (common) - Menu master global, but **price / availability / tax** can be overridden per branch.

1.3 Branch scope rules

Write these rules and keep them consistent: - “If active branch is X, show ONLY branch X data” - “Admin can switch branch; normal users may be restricted” - “Any access by ID (e.g., /Order/Details?id=123) must validate that record belongs to active branch unless privileged”

2) Database Strategy (recommended)

2.1 Add a Branches table

Create Branches with at least: - Id (PK) - BranchCode (unique) - BranchName - IsActive - Address/phone fields (optional)

2.2 Add BranchId to branch-owned tables

Add a BranchId foreign key column and index it.

Recommended minimum (core transactions): - Orders(BranchId) - OrderItems(BranchId) (optional if always joined via Orders, but recommended for performance) - KitchenTickets(BranchId) - KitchenTicketItems(BranchId) - Payments(BranchId) - Tables(BranchId) - TableTurnovers(BranchId) - Counters(BranchId)

If there are additional operational tables (discount approvals, void logs, etc.), add BranchId there too.

2.3 Constraints + indexes

For each transactional table: - BranchId should become NOT NULL after backfill - Add FK: BranchId → Branches(Id) - Index patterns: - IX_Orders_BranchId_CreatedAt - IX_Orders_BranchId_Status_CreatedAt - IX_Payments_BranchId_PaymentDate

2.4 Stored procedure contract

For every stored procedure that reads/writes branch-owned data: - Add parameter: @BranchId INT - Enforce scope: - For reads: WHERE BranchId = @BranchId - For writes: set BranchId = @BranchId - Defensive validation: - If procedure takes a record ID, confirm the record belongs to @BranchId

Example rule: - If @OrderId is passed, validate: Orders.Id=@OrderId AND Orders.BranchId=@BranchId.

3) Application Strategy (end-to-end)

3.1 Establish an “Active Branch” source of truth

Recommended: - Store Allowed Branch IDs in DB (mapping) - On login, set an `ActiveBranchId` in Session - Optionally also store in auth claims for easier access

Create a single helper method used everywhere: - `GetActiveBranchId()`

3.2 Branch switch UI

Add a Branch selector in top navigation: - For multi-branch users: dropdown to switch Active Branch - On switch: - Update session `ActiveBranchId` - Clear branch-dependent caches (POS menu cache, counter selection cache) - Redirect to dashboard

3.3 Enforce branch in every endpoint

For any controller action that loads or modifies data: - Derive `branchId` = `GetActiveBranchId()` - Pass `branchId` into stored procedures - If performing a direct SQL query, add `BranchId` filter - If endpoint accepts an ID (`OrderId`, `PaymentId`, `TableId`): validate it belongs to Active Branch

3.4 Don't trust client input

Never accept `BranchId` from browser without validation. - Browser can only *request* a branch switch - Server validates the user can access the requested branch

4) Master Pages (branch-wise from Users to Menu)

4.1 Users

Pick one: - **User has BranchId** (single-branch) - **UserBranchAccess(UserId, BranchId)** (multi-branch)

Recommended: mapping table for multi-branch.

UI changes: - Create/edit user should include: - Default branch - Allowed branches list - Role-based privilege (can view all branches)

4.2 Tables, Sections, Reservations

These should almost always be branch-owned: - Filter list pages by `ActiveBranchId` - Enforce `BranchId` during create/update

4.3 Counters / POS setup

Counters should be branch-owned: - When selecting POS counter, only show counters for ActiveBranchId - When loading POS dashboard/orders, filter by ActiveBranchId

4.4 Menu and pricing model

Choose one design:

Option A: Fully branch-owned menu (simpler, but duplicates data) - Menu tables include BranchId and are filtered

Option B: Global menu + branch overrides (recommended) - Global: MenuItems, Categories, Modifiers - Branch override tables: - BranchMenuItemSettings(BranchId, MenuItemId, PriceOverride, IsAvailable, TaxOverride, ...)

This keeps master data consistent and allows per-branch differences.

4.5 Settings / GST / Taxes

Decide: - Global settings with optional branch overrides (recommended) - Or strictly per-branch settings

Implement as: - Settings table global - BranchSettings(BranchId, Key, Value) override

5) Transaction Flows (Food/Bar/POS/Kitchen/Payment)

5.1 Order creation

When creating an order: - Always stamp Orders.BranchId = ActiveBranchId - If the order is tied to a Table/Turnover/Counter: - Validate those belong to the same branch

5.2 Add items / kitchen tickets

- Item inserts must match order's branch
- Any "kitchen ticket creation" must be filtered/scoped to branch

5.3 Dashboards

Order dashboard, Bar dashboard, Kitchen dashboard: - Add BranchId = ActiveBranchId filter to the queries

5.4 Payments

For all payment actions: - Validate the order belongs to ActiveBranchId - Store BranchId in payment tables

5.5 Closing / day closing

Every closing summary must: - Filter only orders/payments from ActiveBranchId - Store BranchId on closing tables

6) Reports (branch-wise)

For every report stored procedure: - Add @BranchId (or @BranchIds for privileged roles) - Add WHERE BranchId = @BranchId - Ensure exports (CSV/Excel/PDF) use the same query path

Be careful with: - “Totals” cards on dashboards - Financial summaries - GST breakup - Collection register

7) Data Migration Plan (safe rollout)

7.1 Phase 1: Add schema (nullable)

- Add Branches
- Add BranchId columns as NULLABLE
- Add indexes (optional at this stage)

7.2 Phase 2: Backfill

Populate BranchId for existing data using deterministic rules: - Prefer: Orders.CounterId → Counters.BranchId - Else: Orders.TableTurnoverId → Tables.BranchId - Else: default to “Main” branch

Backfill dependent tables: - OrderItems.BranchId = Orders.BranchId - Payments.BranchId = Orders.BranchId (or from payment source)

7.3 Phase 3: Enforce NOT NULL + FK

After verification: - Convert BranchId columns to NOT NULL - Add foreign keys to Branches - Add required indexes

7.4 Phase 4: Deploy app changes

- Login sets ActiveBranchId
- All queries filter by branch

7.5 Phase 5: Cleanup

- Remove legacy code paths that don't pass BranchId
 - Add monitoring / audit for cross-branch attempts
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8) Hardening (prevent cross-branch access by ID)

8.1 Always validate record ownership

For endpoints like: - /Order/Details?id=... - /Payment/Manage?orderId=... - /Kitchen/Ticket?id=...

Server must validate: - record.BranchId == ActiveBranchId unless privileged.

8.2 Central authorization rule

Add a helper: - UserCanAccessBranch(branchId) - UserCanViewAllBranches()

9) Testing Plan (mandatory)

Create 2 branches: A and B.

9.1 Access control tests

- Branch A user cannot see Branch B orders/tables/payments
- Branch switch changes data immediately

9.2 Transaction tests

- Create order in A, ensure it never appears in B dashboards
- Payment in A cannot be applied from B UI

9.3 Report tests

- Reports totals match dashboard totals for same branch
- Exports match on-screen data

9.4 Performance

- Ensure indexes exist for (BranchId, CreatedAt) style filters
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10) Recommended Implementation Order (step-by-step)

1. Finalize branch ownership matrix (transaction tables + master tables)
2. Create Branches + user-branch mapping tables
3. Add ActiveBranchId in login + UI selector
4. Add BranchId to Tables + Counters + TableTurnovers first

5. Add BranchId to Orders and enforce it end-to-end
 6. Propagate to OrderItems, KitchenTickets, Payments
 7. Update all dashboards to filter by branch
 8. Update all reports SPs + exports
 9. Update master pages (Menu/Categories/Modifiers) according to chosen model
 10. Hardening + test suite + rollout
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Notes / Common pitfalls

- If “MenuItems are global” but “availability is branch-wise”, you must have a branch override table; otherwise you will constantly fight inconsistent behavior.
 - If you allow multi-branch users, always store an ActiveBranchId; showing mixed data across branches is the most common source of report mismatches.
 - Ensure POS cached data (menu, counters) is scoped by branch; otherwise users will see wrong price/availability.
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Deliverables Checklist (what you should end up with)

- Branches master + UserBranchAccess mapping (if multi-branch)
- BranchId columns + FKs + indexes on all branch-owned tables
- Updated stored procedures: all take @BranchId
- Login + session stores ActiveBranchId
- Branch switch UI
- Every controller action filters by ActiveBranchId
- All reports and exports filter by ActiveBranchId
- Migration scripts + backfill scripts + validation SQL

Branch-wise Implementation (Repo + DB Scan Report)

This document is a repo-specific assessment for adding a **Restaurant Branch** concept across login → all pages → all transactions, with **admin consolidated (all-branches) reporting**.

It is based on scanning this workspace (C# controllers/views + SQL scripts). It does **not** implement anything; it's a step-by-step workaround / rollout plan.

1) What the scan shows (current state)

Repo size (quick stats) - C# files: ~197 - Controllers: ~49 - Razor views: ~166 - SQL scripts: ~153

Where data access lives - A lot of SQL is written inline inside controllers (not a centralized repository layer). - Stored procedures are also used (at least ~91 call sites found), so branch filtering must be done in both: - controller inline SQL - stored procedures / views

High-traffic transactional areas (most likely to need strict branch filtering) - Orders / POS: OrderController, OrderController_NewItems, and related SQL procs. - Payments / split bills / settlement: PaymentController + Payments_Setup.sql. - Bar (BOT module): BOTController + BOT_Setup.sql. - Kitchen tickets: KitchenController + Kitchen_Setup.sql. - Reports: ReportsController + multiple report stored procedures. - Table service & reservations: TableServiceController, ReservationController + setup scripts.

Important discovery: “BranchID” already exists but for Hotel Room Service This repo already uses a *hotel* branch concept: - Orders.H_BranchID (and other hotel-related columns like booking/room) - View: vw_RoomService_PendingSettlement maps o.H_BranchID AS BranchID - Procedure: usp_GetRoomServicePendingSettlementDetails(@BranchID) filters on o.H_BranchID = @BranchID - UI: Views/Order/Create.cshtml has hotelBranch dropdown + /Order/GetCheckedInOccupiedRooms?branchId=...

Implication: - Do **not** reuse H_BranchID for restaurant branches. - Introduce a **separate restaurant branch key**, e.g. Orders.BranchId (recommended), and keep hotel integration intact.

2) Design decision you must confirm (before coding)

You need to decide these 4 items up-front, because they change both schema and UI behavior:

1. **Branch scope model**
 - **Strict branch isolation:** every transactional table row belongs to exactly one branch.
 - Admin may read all branches; normal users only their branch.
 2. **Branch selection UX**
 - Option A: user is tied to a single branch (no switch UI).
 - Option B (your request): user can **switch branch** (session-based active branch).
 3. **Master data (Menu/Prices) strategy**
 - Global masters shared across branches (simpler) vs.
 - Branch-specific menu/pricing (more complex but common for chains)
 4. **Counter strategy**
 - Counters are almost always branch-specific (recommended), because POS counter belongs to a physical location.
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3) Recommended branch data model (DB)

3.1 Core tables

Create: - Branches (Id, BranchCode, BranchName, IsActive, CreatedAt, UpdatedAt, ...) - UserBranches (UserId, BranchId, IsDefault, IsActive, ...)

Add: - Users.DefaultBranchId (optional but practical)

3.2 Transactional tables that should get BranchId

At minimum: - Orders (most important)

- OrderItems (optional if always joined from Orders, but recommended for indexing / safety) - Payments, SplitBills, SplitBillItems - TableTurnovers, ServerAssignments - Reservations, Waitlist, Tables (or at least tables/turnovers) - BOT module: BOT_Header, BOT_Detail, BOT_Bills, BOT_Payments - Kitchen module: KitchenTickets, KitchenTicketItems (and related) - Day closing / cashier: CashierDayOpening, CashierDayClose, DayLockAudit - Online ordering: OnlineOrders, OnlineOrderItems (and related)

3.3 Foreign keys and indexes (performance + correctness)

- Add FK: ... BranchId → Branches.Id
 - Add indexes:
 - Orders(BranchId, CreatedAt)
 - Orders(BranchId, Status)
 - Payments(BranchId, CreatedAt) or Payments(OrderId) + join filter
 - KitchenTickets(BranchId, Status, CreatedAt)
 - BOT_Header(BranchId, Status, CreatedAt)
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4) Application approach (ASP.NET Core MVC)

4.1 Where to store the active branch

This app already uses Session for POS counter selection (POS.SelectedCounterId). Reuse the same pattern: - Session keys: - BRANCH.ActiveBranchId - BRANCH.ActiveBranchName (optional)

4.2 How to pick the branch at login

Recommended flow: - After successful login: - fetch allowed branches for user - if only 1 branch → set session active branch automatically - if multiple branches → show a “Select Branch” screen once, then store in session

4.3 Enforcing branch scope

Because SQL is often inline in controllers, the safest pattern is: - Make a **single helper** that resolves active branch id (or throws) - Every query that reads/writes transactions must include: - ... WHERE BranchId = @BranchId - or JOIN Orders o ... WHERE o.BranchId = @BranchId

For Admin consolidated reporting: - allow @BranchId = NULL meaning “all branches” - BUT only if user has an Admin/SuperAdmin role/claim

5) Repo impact map (what you will need to touch)

5.1 Controllers that are branch-sensitive (highest priority)

These controllers were found referencing Orders/Payments and are the main risk for cross-branch leakage: - OrderController.cs - OrderController_NewItems.cs - PaymentController.cs - ReportsController.cs - BOTController.cs - KitchenController.cs - OnlineOrderController.cs - ReservationController.cs - TableServiceController.cs - AuditTrailController.cs

5.2 SQL scripts / procedures (examples)

You will need to branch-scope: - Order creation / item add / dashboards / recent orders - Payment info + payment processing - BOT dashboard / listing / settlement - Kitchen dashboards / tickets by status - Reports procedures (sales/discount/GST/collection register/order report/etc.) - Day closing procedures

5.3 Existing Hotel Room Service branch fields (do not break)

Files that currently depend on hotel branch (H_BranchID) and should remain separate: - RestaurantManagementSystem/RestaurantManagementSystem/SQL/usp_GetRoomServicePendingSettlementDetails.sql - RestaurantManagementSystem/RestaurantManagementSystem/SQL/vw_RoomServicePendingSettlement.sql - RestaurantManagementSystem/RestaurantManagementSystem/Views/Order/Create.cshtml - RestaurantManagementSystem/RestaurantManagementSystem/Controllers/OrderController.cs (room-service flow) - RestaurantManagementSystem/RestaurantManagementSystem/Controllers/PaymentController.cs (room-service settlement references)

Recommendation: - Keep hotel-related parameter naming as HotelBranchId or HBranchId in C# models to reduce confusion. - Introduce restaurant BranchId for restaurant module.

6) Step-by-step workaround / rollout plan (safe phases)

Phase 0 — Finalize rules (1–2 days)

- Confirm master data strategy: global vs branch-specific menu/prices.
- Confirm whether order numbers are global across branches or per-branch.
- Confirm whether admin can switch branch and/or view all.

Phase 1 — DB foundation (2–4 days)

- Create Branches and UserBranches.
- Add nullable BranchId columns to **top-level** transaction tables first (Orders, Payments, BOT, Kitchen, Reservations).
- Backfill BranchId for existing rows:
 - If you only have one branch today: set all existing rows to that branch.
 - If multiple branches already exist implicitly (by Counter or hotel branch): define mapping rules explicitly.
- Add indexes on (BranchId, CreatedAt/Status).

Phase 2 — App “active branch” plumbing (2–4 days)

- Add a branch selector after login (only when user has >1 allowed branch).
- Store active branch in session (BRANCH.ActiveBranchId).
- Add a small helper (single source of truth) to get active branch in controllers.

Phase 3 — Enforce branch on write paths (3–7 days)

Do this before read paths to prevent new cross-branch records. - Order creation: insert `Orders.BranchId = @BranchId`. - Add/update order items: ensure `OrderId` belongs to the active branch. - Payments: ensure payment is applied only to an order in the active branch. - BOT/Kitchen: ensure created rows inherit branch from the order.

Phase 4 — Enforce branch on read paths (5–10 days)

- Dashboards (food + bar + kitchen): filter by active branch.
- POS views and active order lists: filter by branch.
- Reports:
 - Normal users: filter by branch only.
 - Admin: add optional branch filter + “All branches” option.

Phase 5 — Make BranchId NOT NULL + add FKs (1–2 days)

After app is fully writing correct BranchId: - Make BranchId required on core transactional tables. - Add strict foreign keys.

Phase 6 — Hardening + QA (ongoing)

- Add automated checks (or at least manual test cases) for:

- user from Branch A cannot view Branch B orders
 - payment cannot be applied across branches
 - reports totals match per-branch and all-branches
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7) High-risk areas / gotchas (specific to this repo)

1. Two branch concepts

- Hotel room-service uses H_BranchID already.
- Restaurant branch must be separate to avoid logic conflicts.

2. Inline SQL scattered across controllers

- Branch conditions are easy to miss; expect iterative hardening.

3. Counters & POS

- POS uses selected counter in session.
- Recommended: Counters should have BranchId, and selected counter must belong to active branch.

4. Reports stored procedures

- Many reports are SQL procedures; each needs either:
 - mandatory @BranchId parameter, or
 - optional @BranchId with admin-only all-branch mode.

5. Backfill rules

- If historical data cannot be mapped to a branch, you'll need a "Legacy/Unknown" branch.
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8) Practical next step (if you want me to continue the scan)

If you want an even more actionable deliverable, I can generate a second document that lists: - each controller action that needs BranchId filter - each stored procedure that queries Orders/Payments and needs a @BranchId input

Tell me your decision for these 2 items and I'll tailor that list: 1) Menu data is **global** or **branch-specific**? 2) Reports: Admin needs **All branches at once** or **switch branch only**?

Branch-wise Implementation — Exact Touch List (Menu/Pricing Branch-wise + Admin All-Branches Reporting)

Decisions confirmed (12 Feb 2026): - **Menu/Pricing is branch-wise** - **Admin reporting shows all branches at once** (consolidated)

This is a repo-specific "what to change" list (controllers + SQL procedures) based on scanning this workspace.

A) DB changes (must-do)

A1) New tables

1. `dbo.Branches`
 - `Id` INT IDENTITY PK
 - `BranchCode` NVARCHAR(20) UNIQUE
 - `BranchName` NVARCHAR(120)
 - `IsActive` BIT, `CreatedAt`, `UpdatedAt`
2. `dbo.UserBranches`
 - `UserId` INT FK → `Users.Id`
 - `BranchId` INT FK → `Branches.Id`
 - `IsDefault` BIT, `IsActive` BIT, timestamps
 - Unique constraint (`UserId`, `BranchId`)

A2) BranchId columns (recommended minimum)

Restaurant transactional - `Orders.BranchId` (do NOT reuse `H_BranchID`) - `Payments.BranchId` (or enforce via join from `Orders`; still recommended) - `OrderItems.BranchId` (recommended for performance & safety) - `SplitBills.BranchId`, `SplitBillItems.BranchId` - `TableTurnovers.BranchId`, `ServerAssignments.BranchId` - `Reservations.BranchId`, `Waitlist.BranchId`, `Tables.BranchId` - Kitchen: `KitchenTickets.BranchId`, `KitchenTicketItems.BranchId` - Bar/BOT: `BOT_Header.BranchId`, `BOT_Detail.BranchId`, `BOT_Bills.BranchId`, `BOT_Payments.BranchId` - Day closing: `CashierDayOpening.BranchId`, `CashierDayClose.BranchId`, `DayLockAudit.BranchId` - Online ordering: `OnlineOrders.BranchId`, `OnlineOrderItems.BranchId`, `WebhookEvents.BranchId` (if needed)

Menu + Pricing (branch-wise requirement) At least one of these models must be chosen. Recommended is “branch-scoped menu rows”. - `Categories.BranchId` - `SubCategories.BranchId` - `MenuItems.BranchId` - `Modifiers.BranchId` - Any mapping tables used by menu/kitchen (e.g. `MenuItemModifiers`, `MenuItemKitchenStations`) should either: - inherit from `MenuItems`, or - store `BranchId` for faster filtering.

A3) Indexes (performance)

- `Orders(BranchId, CreatedAt DESC)`
- `Orders(BranchId, Status, CreatedAt DESC)`
- `MenuItems(BranchId, IsAvailable, CategoryId)`
- `Payments(BranchId, CreatedAt DESC)`
- `KitchenTickets(BranchId, Status, CreatedAt DESC)`
- `BOT_Header(BranchId, Status, CreatedAt DESC)`

A4) Important: existing Hotel Room-Service branch stays separate

This repo already uses **hotel** branch fields (`Orders.H_BranchID`) for room-service settlement. - Keep those flows unchanged. - Restaurant branch must be `Orders.BranchId` (new).

B) App plumbing (must-do)

B1) Session keys

Add active branch selection (similar to existing POS counter session approach): -
 BRANCH.ActiveBranchId - BRANCH.ActiveBranchName (optional)

B2) Login / switch branch

Implement: - After login: load allowed branches for user. - If 1 branch → set it. - If many → force select branch (once) then proceed. - Provide a “Switch Branch” option (clears cached lists where needed).

B3) Enforcement rule

For non-admin users: - Every read/write must be filtered by BranchId = ActiveBranchId.

For admin: - Most pages still work in single active branch mode. - Reports allow **All branches** consolidated: - pass @BranchId = NULL (or 0) to report procedures. - only if admin role/permission.

C) Controllers to modify (repo scan result)

These controllers were identified as touching Orders/Payments and will need branch enforcement.

C1) Orders & POS

File:

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/OrderController.cs Actions seen in scan (non-exhaustive): - Dashboard, Create, Details, GetOrderDashboard - POS: POSOrder, SetPOSCounter, CreatePOSOrder, CreatePOSOrderAjax, UpdateMultipleOrderItems - Items: AddItem, QuickAddMenuItem, FireItems, SubmitOrder - Hotel-only: GetHotelBranches, GetCheckedInOccupiedRooms (keep using H_BranchID path)

What to change: - On create order: set Orders.BranchId = ActiveBranchId (restaurant orders) - On add/update items: validate the order belongs to branch - On listing dashboards: filter by branch - Keep room-service (OrderType=4) flow separate from restaurant branches.

File:

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/OrderController_NewItems.cs - Same branch rules as above for any order-item write APIs.

C2) Payments

File:

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/PaymentController.cs Actions seen: - Index, ProcessPayment, ProcessSplitPayments - VoidPayment, approvals (ApprovePayment, RejectPayment, ApprovePaymentAjax, RejectPaymentAjax) - Dashboards: Dashboard, BarDashboard - Print flows: Print, PrintBill, PrintPOS

What to change: - Any payment operation must confirm the OrderId belongs to active branch. - Payment listing/dashboard queries must filter by branch. - If you add Payments.BranchId, always populate it from the order's branch.

C3) Bar / BOT

File:

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/BOTController.cs Actions seen: - Dashboard, Tickets, Details, UpdateStatus, Void - BarOrderCreate, BarOrderDashboard

What to change: - Ensure BOT header/detail rows are created with BranchId (inherit from Orders). - Filter BOT dashboards and reports by branch.

C4) Kitchen

File:

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/KitchenController.cs Actions seen: - Dashboard, Tickets, TicketDetails - status updates + station management (Stations, SaveStation, etc.)

What to change: - Filter kitchen ticket lists/dashboard by branch. - Station management: decide whether kitchen stations are branch-wise (almost always yes).

C5) Reports (Admin all-branches)

File:

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/ReportsController.cs Actions seen: - Sales, Orders, Menu, Customers, Financial - Kitchen, Bar - DiscountReport, GSTBreakup, CollectionRegister, CashClosing, FeedbackSurveyReport

What to change: - Add branch selector in report UI: - Normal users: fixed to active branch (no "All"). - Admin: allow All branches. - Pass @BranchId into stored procedures: - @BranchId = ActiveBranchId normally - @BranchId = NULL for admin consolidated

C6) Tables/Reservations

Files: -

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/ReservationController.cs -

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/TableServiceController.cs

What to change: - Tables/Reservations/Waitlist/Turnovers must be branch-scoped. - All lists and lookups filtered by branch.

C7) Online ordering

File:

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/OnlineOrderController.cs Actions seen: - Dashboard, Index, Details, SyncOrder, webhook receiver

What to change: - Decide whether an online source is branch-wise. Usually: **yes**. - Store BranchId on online orders and enforce during sync.

C8) Menu + Pricing (branch-wise requirement)

Files: -

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/MenuManagementController.cs -

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/MenuController.cs -

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/CategoryController.cs -

RestaurantManagementSystem/RestaurantManagementSystem/Controllers/SubCategoryController.cs

What to change: - Every list/create/edit/delete must use active branch. - If Admin needs to manage multiple branches: - either switch branch while managing menu, or - provide branch dropdown on menu pages.

D) Stored procedures to update (from SQL scan)

D1) Orders

- `dbo.usp_CreateOrder` → add @BranchId and insert to `Orders.BranchId`
- `dbo.usp_AddOrderItem` → validate order branch; optionally set `OrderItems.BranchId`
- `dbo.usp_FireOrderItems` → filter/validate by branch
- `usp_GetRecentOrdersForDashboard / dashboards` → filter by branch

D2) Payments

- `dbo.usp_GetOrderPaymentInfo` → enforce that requested order belongs to branch
- `dbo.usp_ProcessPayment` → enforce/derive branch
- `dbo.usp_CreateSplitBill` → enforce/derive branch
- `dbo.usp_VoidPayment` → enforce/derive branch

D3) BOT

- `dbo.GetBOTDashboardStats, dbo.GetBOTsByStatus, dbo.GetBOTDetails` → filter by branch
- `dbo.GetNextBOTNumber` → decide if sequence is per-branch (recommended)
- `dbo.UpdateBOTStatus, dbo.VoidBOT` → validate branch
- `dbo.usp_GetBarBOTReport` → add `@BranchId` (nullable for admin) and filter.

D4) Kitchen

- `GetKitchenDashboardStats, GetKitchenTicketsByStatus, GetFilteredKitchenTickets, GetKitchenTicketDetails` → add `@BranchId`
- `UpdateKitchenTicketsForOrder / dbo.UpdateKitchenTicketsForOrder` → validate branch
- `MarkAllTicketsReady` → branch filter

D5) Reports (admin consolidated)

Add `@BranchId INT = NULL` to each report SP and use pattern: - WHERE (`@BranchId IS NULL OR o.BranchId = @BranchId`)

Procedures found in scan: - `usp_GetSalesReport - usp_GetOrderReport - usp_GetDiscountReport - dbo.usp_GetGSTBreakupReport - dbo.usp_GetCollectionRegister - usp_GetFinancialSummary - usp_GetCashClosingReport - usp_GetHomeDashboardStats / usp_GetHomeDashboardStatsEnhanced` (if totals should be branch-wise) - `dbo.usp_GetCustomerAnalysis - dbo.usp_GetMenuAnalysis`

D6) Menu + Pricing (branch-wise)

Procedures found in scan: - `dbo.sp_GetAllMenuItems - dbo.sp_GetMenuItemById - dbo.sp_CreateMenuItem - dbo.sp_UpdateMenuItem - dbo.sp_PublishMenuItem - dbo.sp_GetAllModifiers - dbo.sp_ApprovePriceChange` - plus recipe-related SPs (`dbo.sp_ManageRecipe, etc.`)

What to change: - Add `@BranchId` to all menu/proc read/write. - Ensure any uniqueness constraints consider branch (e.g., item codes/names).

D7) Tables/Reservations

- `dbo.usp_SeatGuests, dbo.usp_AssignServerToTable, dbo.usp_StartTableTurnover, dbo.usp_UpdateTableTurnoverStatus`
- `dbo.usp_UpsertReservation, dbo.usp_UpsertWaitlist, dbo.usp_UpsertTable`

Add branch enforcement and prevent cross-branch table assignment.

D8) Hotel room-service (leave as-is)

- `dbo.usp_GetRoomServicePendingSettlementDetails`
- `dbo.vw_RoomService_PendingSettlement`

These are hotel-specific and depend on `Orders.H_BranchID`.

E) Recommended implementation order (workable sequence)

1. DB: create Branches, UserBranches.
 2. Add BranchId to menu tables first (because menu/pricing is branch-wise).
 3. Add BranchId to Orders and enforce on create/add items.
 4. Add branch enforcement to payments.
 5. Add branch enforcement to BOT + Kitchen.
 6. Reports: add @BranchId param (nullable) and enable admin consolidated.
 7. Backfill existing rows to a default branch.
 8. Make BranchId NOT NULL + FK constraints.
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F) Next optional deliverable

If you want, I can generate a ready-to-run SQL migration skeleton that: - creates Branches, UserBranches - adds BranchId columns - adds indexes - shows safe backfill template