Franchise On boarding System: Backend Database Design

Tables

1.1 fr_states – Master List of States

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
state_name	VARCHAR(100)	Name of the state
is_active	BOOLEAN	true = active, false = inactive
is_deleted	BOOLEAN	true = deleted, false = active
created_at	TIMESTAMP	Creation timestamp
updated_at	TIMESTAMP	Last update timestamp

1.2 fr_cities – Master List of Cities

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
city_name	VARCHAR(100)	Name of the city
state_id	BIGINT (FK)	References fr_states(id)
is_active	BOOLEAN	true = active, false = inactive
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Creation timestamp
updated_at	TIMESTAMP	Last update timestamp

⬜ 2. Core Franchise Tables

2.1 fr_franchises – Franchise Master

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
application_no	VARCHAR(50)	Unique application number
branch_name	VARCHAR(100)	Franchise branch name
location	VARCHAR(255)	Address
branch_code	VARCHAR(50)	Unique branch code
state_id	BIGINT (FK)	References fr_states(id)
city_id	BIGINT (FK)	References fr_cities(id)
status_id	BIGINT (FK)	References fr_status_master(id)
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Record creation time
updated_at	TIMESTAMP	Last update time

2.1.1 fr_status_master – Franchise Status Master

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
status_name	VARCHAR(50)	Status (e.g., active, closed)
description	TEXT	Optional

Column Name	Data Type	Description
is_active	BOOLEAN	true = active
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Creation time
updated_at	TIMESTAMP	Last update time

2.2 fr_franchisee_details – Franchisee Contact Info

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
franchise_id	BIGINT (FK)	References fr_franchises(id)
franchisee_name	VARCHAR(100)	Owner's name
contact_email	VARCHAR(255)	Email
contact_number	VARCHAR(20)	Phone
lead_form_status	ENUM("registered", "not_registered")	Status
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Creation time
updated_at	TIMESTAMP	Update time

⬜ 3. Phase 1: Digital Presence Setup

3.1 fr_digital_presence

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
franchise_id	BIGINT (FK)	References fr_franchises(id)
google_business_url	VARCHAR(255)	Google Business
facebook_page_url	VARCHAR(255)	Facebook Page
instagram_account_url	VARCHAR(255)	Instagram
status_id	BIGINT (FK)	fr_digital_status_master(id)
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

3.11 fr_digital_status_master

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
status_name	VARCHAR(50)	Status
description	TEXT	Optional
is_active	BOOLEAN	true = active
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created

Column Name	Data Type	Description
updated_at	TIMESTAMP	Updated

📋 4. Phase 2: Branding Assets Upload

4.1 fr_branding_assets

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
franchise_id	BIGINT (FK)	References fr_franchises(id)
asset_master_id	BIGINT (FK)	fr_branding_asset_types(id)
file_url	VARCHAR(255)	File/Drive Link
status_id	BIGINT (FK)	fr_branding_asset_status_master(id)
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

4.11 fr_branding_asset_status_master

Column Name	Data Type	Description
id	BIGINT (PK)	Unique
status_name	VARCHAR(50)	e.g., pending
description	TEXT	Optional

Column Name	Data Type	Description
is_active	BOOLEAN	true = active
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

4.2 fr_branding_asset_types

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
name	VARCHAR(100)	Asset type (e.g., Standee)
is_active	BOOLEAN	true = active
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

☐ 5. Phase 3: Promotion Campaigns

5.1 fr_ad_campaigns

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
franchise_id	BIGINT (FK)	References fr_franchises(id)

Column Name	Data Type	Description
campaign_type	VARCHAR(100)	free_trial/custom
budget	DECIMAL(10,2)	Spend
duration_days	INTEGER	Duration
target_audience	TEXT	JSON or text
status_id	BIGINT (FK)	fr_campaign_status_master(id)
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

5.11 fr_campaign_status_master

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
status_name	VARCHAR(50)	Status
description	TEXT	Optional
is_active	BOOLEAN	Active flag
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

6. Phase Progress Monitoring

6.1 fr_phase_progress

Column Name	Data Type	Description
id	BIGINT (PK)	Unique
franchise_id	BIGINT (FK)	References fr_franchises(id)
phase_id	BIGINT (FK)	References fr_phase_master(id)
start_date	DATE	Start date
end_date	DATE	End date
status	ENUM('not_started', 'in_progress', 'completed')	Phase status
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

6.2 fr_phase_master

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
name	VARCHAR(100)	Phase name
description	TEXT	Optional

6. Phase Progress Monitoring

Column Name	Data Type	Description
display_order	INT	Display order
is_active	BOOLEAN	Active flag
is_deleted	BOOLEAN	true = deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

☐ 7. User Privileges & Roles

7.1 fr_users

Column Name	Data Type	Description
id	BIGINT (PK)	User ID
username	VARCHAR(100)	Username
email	VARCHAR(255)	Email
password	VARCHAR(255)	Hashed password
role_id	BIGINT (FK)	References fr_user_roles(id)
is_active	BOOLEAN	Active
is_deleted	BOOLEAN	Deleted flag
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

7.11 fr_user_roles

Column Name	Data Type	Description
id	BIGINT (PK)	Unique identifier
role_name	VARCHAR(50)	super_admin, viewer
description	TEXT	Optional
permissions	JSON/Text	Permissions list
is_active	BOOLEAN	Active
is_deleted	BOOLEAN	Deleted
created_at	TIMESTAMP	Created
updated_at	TIMESTAMP	Updated

Sample Datas

☐ 1. Master Tables

1.1 fr_states

id	state_name	is_active	is_deleted	created_at	updated_at
1	Tamil Nadu	true	false	2024-01-01 10:00	2024-01-01 10:00
2	Karnataka	true	false	2024-01-01 10:00	2024-01-01 10:00

1.2 fr_cities

id	city_name	state_id	is_active	is_deleted	created_at	updated_at
1	Chennai	1	true	false	2024-01-01 10:00	2024-01-01 10:00
2	Bangalore	2	true	false	2024-01-01 10:00	2024-01-01 10:00

□ 2. Core Franchise Tables

2.1 fr_status_master

id	status_name	description	is_active	is_deleted	created_at	updated_at
1	active	Operational branch	true	false	2024-01-01 10:00	2024-01-01 10:00
2	inactive	Not in service	true	false	2024-01-01 10:00	2024-01-01 10:00

2.2 fr_franchises

id	application_no	branch_name	location	branch_code	state_id	city_id	status_id	is_deleted	created_at	updated_at
1	APP202501	ISML AnnaNgr	Chennai, TN	ISML-TN001	1	1	1	false	2025-05-01 09:00	2025-05-01 09:00

2.3 fr_franchisee_details

id	franchise_id	franchise_name	contact_email	contact_number	lead_form_status	is_deleted	created_at	updated_at
1	1	Ramesh Kumar	ramesh@example.com	9876543210	registered	false	2025-05-01 10:00	2025-05-01 10:00

☐ 3. Phase 1 – Digital Presence

3.11 fr_digital_status_master

id	status_name	description	is_active	is_deleted	created_at	updated_at
1	pending	Waiting for setup	true	false	2024-01-01 10:00	2024-01-01 10:00
2	verified	All links confirmed	true	false	2024-01-01 10:00	2024-01-01 10:00

3.1 fr_digital_presence

id	franchise_id	google_business_url	facebook_page_url	instagram_account_url	status_id	is_deleted	created_at	updated_at
1	1	https://goo.gl/ISML01	https://fb.com/ISMLAnna	https://insta.com/ISML01	2	false	2025-05-02 11:00	2025-05-02 11:00

🗂 4. Phase 2 – Branding Assets

4.2 fr_branding_asset_types

id	name	is_active	is_deleted	created_at	updated_at
1	Name Board	true	false	2024-01-01 10:00	2024-01-01 10:00
2	Standee	true	false	2024-01-01 10:00	2024-01-01 10:00
3	Brochure - Institution	true	false	2024-01-01 10:00	2024-01-01 10:00

4.11 fr_branding_asset_status_master

id	status_name	description	is_active	is_deleted	created_at	updated_at
1	pending	Waiting for upload	true	false	2024-01-01 10:00	2024-01-01 10:00
2	created	File uploaded	true	false	2024-01-01 10:00	2024-01-01 10:00

4.1 fr_branding_assets

id	franchise_id	asset_master_id	file_url	status_id	is_deleted	created_at	updated_at
1	1	1	https://drive.com/board1	2	false	2025-05-03 09:00	2025-05-03 09:00

☐ 5. Phase 3 – Promotions

5.11 fr_campaign_status_master

id	status_name	description	is_active	is_deleted	created_at	updated_at
1	draft	Under preparation	true	false	2024-01-01 10:00	2024-01-01 10:00
2	active	Currently running	true	false	2024-01-01 10:00	2024-01-01 10:00

5.1 fr_ad_campaigns

id	franchise_id	campaign_type	budget	duration_days	target_audience	status_id	is_deleted	created_at	updated_at
1	1	language_benefits	10000.00	15	{"age": "18-30"}	2	false	2025-05-04 10:00	2025-05-04 10:00

☐ 6. Phase Progress Monitoring

6.2 fr_phase_master

id	name	description	display_order	is_active	is_deleted	created_at	updated_at
1	Setup	Digital presence setup	1	true	false	2024-01-01 10:00	2024-01-01 10:00
2	Branding	Upload branding documents	2	true	false	2024-01-01 10:00	2024-01-01 10:00

id	name	description	display_order	is_active	is_deleted	created_at	updated_at
3	Promotion	Run ads and promotions	3	true	false	2024-01-01 10:00	2024-01-01 10:00

6.1 fr_phase_progress

id	franchise_id	phase_id	start_date	end_date	status	is_deleted	created_at	updated_at
1	1	1	2025-05-01	2025-05-02	completed	false	2025-05-02 12:00	2025-05-02 12:00

☐ 7. User Privileges & Roles

7.11 fr_user_roles

id	role_name	description	is_active	is_deleted	created_at	updated_at
1	super_admin	Full access	true	false	2024-01-01 10:00	2024-01-01 10:00
2	admin	Manage franchises	true	false	2024-01-01 10:00	2024-01-01 10:00

7.1 fr_users

id	username	email	password	role_id	is_active	is_deleted	created_at	updated_at
1	admin	admin@isml.com	hashed_pass	1	true	false	2025-01-01 10:00	2025-01-01 10:00

7.2 fr_user_roles (Permission Definitions)

id	role_name	permissions
1	super_admin	{"modules": ["franchises", "users", "phases", "reports", "campaigns"]}
2	admin	{"modules": ["franchises", "phases", "branding", "campaigns"]}

Franchise Management System: UI & Menu Specification Document

☐ Overview

This document outlines the frontend architecture and user interface design for a **Franchise Management System**, developed using **Python (Django)** for backend, **SQL** for database, and modern **HTML/CSS/JS** (optionally with Bootstrap or TailwindCSS) for the frontend.

☐ 1. Home Page

Route:

/

Features:

- Welcome message or logo
- Call to action: "Login to Franchise Portal"

☐ 2. Login Page

Route:

/login/

Features:

- Fields: Username, Password
- Submit button to authenticate
- Backend check using Django Auth or JWT
- Error handling: Invalid credentials message

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3. Sidebar Menus & Navigation

Sidebar Layout:

Accessible after login.

Sidebar Items:

- **Menu 1: Franchise Management**
  - Create New Franchise
  - Confirmation Page
  - Franchise List
  - Franchise Allocation
- **Menu 2: Franchise Onboarding**
  - Initial Setup (Phase 1)
    - Accounts Setup
    - Branding Creatives
  - Phase 2
    - Google Setup
    - Mail ID Configuration
    - Google Maps Business Setup
- **Menu 3: Masters Data**
  - View Master Tables
- **Menu 4: Reports**
  - Onboarding Analysis
  - Campaign Results
  - Task Progress/Reports
  - Notifications
- **Admin Dashboard**
  - Franchise Statistics
  - Pie Chart (State-wise Count)
  - Last 5 Email Logs
  - Today's Completed Tasks

☐ Menu Details

☐ Menu 1: Franchise Management

➤ Create New Franchise

Route: /franchise/create/

- Fields: Application No, Branch Name, Location, State, City, Branch Code
- Submit button saves to fr_franchises

➤ Confirmation Page

Route: /franchise/confirmation/

- Shows Franchise ID, Application Number, Pending App Numbers
- Data fetched from fr_franchises and fr_franchisee_details

➤ Franchise List

Route: /franchise/list/

- Table View with sortable/filterable columns
- Columns: Application No, Branch, City, Status, Created Date

➤ Franchise Allocation

Route: /franchise/allocation/

- Select Franchise → Assign to User (dropdown from fr_users)

☐ Menu 2: Franchise Onboarding

➤ Initial Setup (Phase 1)

Route: /onboarding/phase1/

- Sub-tabs: Accounts Setup, Branding Creatives

- Track with fr_phase_progress and fr_branding_assets

➤ **Phase 2**

Route: /onboarding/phase2/

- Fields:
    - Mail ID Field
    - Google Maps URL input
- Save updates fr_digital_presence & related tables

☐ **Menu 3: Masters Data**

Route: /masters/

- View/Edit master tables:
    - States
    - Cities
    - Status Master
    - Digital Status Master
    - Branding Asset Types
    - Branding Status Master
    - Campaign Status Master
    - Phase Master
    - User Roles

☐ **Menu 4: Reports**

➤ **Onboarding Analysis**

Route: /reports/onboarding/

- Chart of onboarding progress by franchise

➤ Campaign Results

Route: /reports/campaigns/

- Metrics on Ad Campaigns from fr_ad_campaigns

➤ Task Progress

Route: /reports/tasks/

- Overview of completed/pending tasks using fr_phase_progress

➤ Notifications

Route: /notifications/

- List of system-generated messages (e.g., franchise created, phase completed)
- Stored in notification_log (custom table or integrated log system)

☐ Admin Report Dashboard

Route: /dashboard/admin/

Sections:

- **Franchise Summary Cards:**
  - Current
  - Active
  - Onboarding
  - Inactive
  - Fetched from fr_franchises with status_id filters
- **Pie Chart:**
  - State-wise Franchise Distribution using Chart.js / Plotly
- **Email Logs Table:**
  - Last 5 sent email logs (custom email log table)
- **Task Completion List:**
  - Today's Completed Tasks (fr_phase_progress.end_date = today())

Filters:

- **Filter 1:** Show last 5 emails sent
- **Filter 2:** Show tasks completed today