

2025-11-26

1. [REDACTED] - [REDACTED]

- **RESTful APIs** (Scalability) - **Workspaces** (Maintainability).
- **SaaS** (Scalability) - **Cloud** (Scalability).

..... (.....)

.....-..... (Layered Architecture)

A horizontal bar consisting of 12 black squares of equal size, followed by a short vertical line.

██████████ ██████████ (███████):

```
backend/
public/
  index.php      # ██████████ API (Front Controller)
src/
Http/
  Router.php
  Controllers/
    AuthController.php
    UserController.php
    WorkspaceController.php
    TeamController.php
    SocialAccountController.php
    PostController.php
```

IdeaController.php
TemplateController.php
AssetController.php
AnalyticsController.php
NotificationController.php
AiToolController.php
TicketController.php
Admin/
 AdminDashboardController.php
 AdminUserController.php
 AdminWorkspaceController.php
 AdminPlanController.php
 AdminAiToolController.php
 AdminUsageController.php
 AdminTicketController.php
 AdminSettingsController.php
 AdminLogController.php
Application/
Services/
 AuthService.php
 UserService.php
 WorkspaceService.php
 TeamService.php
 SocialAccountService.php
 PostService.php
 IdeaService.php
 TemplateService.php
 AssetService.php
 AnalyticsService.php
 NotificationService.php
 AiOrchestrationService.php
 TicketService.php
Admin/
 AdminUserService.php
 AdminWorkspaceService.php
 AdminPlanService.php
 AdminAiService.php
 AdminUsageService.php
 AdminTicketService.php
 AdminSettingsService.php
 AdminLogService.php
Domain/
Models/
 User.php
 Workspace.php
 TeamMember.php
 Plan.php
 Subscription.php
 SocialAccount.php
 Post.php
 PostSchedule.php
 Idea.php
 Template.php
 Asset.php
 Notification.php
 AiTool.php
 AiRequestLog.php
 AnalyticsSnapshot.php
 Ticket.php
 TicketMessage.php
 SystemSetting.php
 AuditLog.php

----- (Modules) -----:

- 1) (Auth & Users)
- 2) Workspaces (Workspaces & Teams)
- 3) (Plans & Subscriptions)
- 4) (Social Accounts)
- 5) (Content & Posts)
- 6) (Ideas & Templates)
- 7) (Assets)
- 8) (Notifications)
- 9) (AI Orchestration & Tools)
- 10) (Analytics)
- 11) (Support Tickets)
- 12) (Settings & Logs)
- 13) (Admin Panel APIs)

-----:

- Domain Models.
- Repositories
- Services
- Controllers API -----.

4. ----- - -----

----- (-----):

4.1. ----- users

- id (PK)
- name
- email (unique)
- password_hash
- role (system-level role: user, admin, super_admin)
- is_active (boolean)
- last_login_at (datetime)
- created_at, updated_at

4.2. ----- workspaces

- id (PK)
- owner_id (FK → users.id)
- name
- slug
- timezone
- brand_voice_tone (friendly, expert, funny...)
- brand_voice_notes (text)
- status (active, suspended)
- created_at, updated_at

4.3. ----- team_members

- id (PK)
- workspace_id (FK → workspaces.id)
- user_id (FK → users.id)
- role (owner, manager, editor, viewer)
- invitation_status (pending, accepted, declined)
- created_at, updated_at

4.4. ----- plans

- id (PK)
- name (Free, Pro, Agency...)
- description

- price_monthly
- price_yearly
- max_workspaces_per_user
- max_social_accounts_per_workspace
- max_ai_requests_per_month
- is_active
- created_at, updated_at

4.5. ■■■■■ subscriptions

- id (PK)
- user_id (FK → users.id)
- plan_id (FK → plans.id)
- status (active, canceled, expired)
- current_period_start
- current_period_end
- created_at, updated_at

4.6. ■■■■■ social_accounts

- id (PK)
- workspace_id (FK → workspaces.id)
- platform (instagram, tiktok, youtube, x, facebook, ...)
- handle
- display_name
- external_id (id ■■■■■ ■■■■■■■■)
- auth_status (connected, expired, revoked)
- access_token (■■■■■)
- refresh_token (■■■■■)
- token_expires_at (datetime)
- last_synced_at (datetime)
- created_at, updated_at

4.7. ■■■■■ posts

- id (PK)
- workspace_id (FK)
- social_account_id (FK, nullable ■■■■■ ■■■■■■■■ ■■■■■■■■)
- content_text (text)
- media_group_id (■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■)
- status (draft, scheduled, published, failed)
- source (manual, ai, idea, template)
- created_by (FK → users.id)
- created_at, updated_at

4.8. ■■■■■ post_schedules

- id (PK)
- post_id (FK → posts.id)
- scheduled_at (datetime)
- published_at (datetime, nullable)
- publish_status (pending, completed, failed)
- fail_reason (nullable)
- created_at, updated_at

4.9. ■■■■■ ideas

- id (PK)
- workspace_id (FK)
- title
- description (text)
- platform (nullable)
- tags (■■■■■■■■■■■■■■■■■■■■)
- source (user, ai)
- status (idea, draft, used, archived)
- created_by (FK → users.id)
- created_at, updated_at

4.10. ████ templates

- id (PK)
 - workspace_id (FK, nullable null)
 - name
 - type (caption, script, email, reply...)
 - platform
 - body (text)
 - is_global (boolean)
 - created_by (FK → users.id)
 - created_at, updated_at

4.11. ████ assets

- id (PK)
 - workspace_id (FK)
 - file_name
 - file_path
 - file_type (image, video, audio, other)
 - mime_type
 - size_bytes
 - tags
 - uploaded_by (FK → users.id)
 - created_at, updated_at

4.12. ■■■■■ notifications

- id (PK)
 - user_id (FK → users.id)
 - type (enum: system, ai_insight, schedule, billing, support)
 - title
 - body (text)
 - link_url (nullable)
 - is_read (boolean)
 - created_at, read_at

4.13. ai_tools

- id (PK)
 - key (video_ideas, caption_generator, hashtag_generator...)
 - name
 - description
 - category (video, image, text, engagement, analytics, strategy)
 - is_enabled (boolean)
 - allowed_plan_ids (██████████ JSON ██████████ plan_ai_tool)
 - created_at, updated_at

4.14. ai_request_logs

- id (PK)
 - workspace_id (FK)
 - user_id (FK)
 - ai_tool_id (FK)
 - input_text (text)
 - output_size_tokens (int ██████████)
 - status (success, failed)
 - error_message (nullable)
 - created_at

4.15. analytics snapshots

- id (PK)
 - workspace_id (FK)
 - social_account_id (FK)
 - metric_date
 - followers_count
 - impressions

- likes
 - comments
 - shares
 - saves
 - views
 - created_at

4.16. tickets

- id (PK)
 - workspace_id (FK, nullable )
 - user_id (FK → users.id)
 - subject
 - status (open, in_progress, closed)
 - priority (low, normal, high)
 - created_at, updated_at

4.17. ticket_messages

- id (PK)
 - ticket_id (FK → tickets.id)
 - sender_type (user, admin)
 - sender_id (FK → users.id ■■■ admin_users)
 - body (text)
 - created_at

4.18. system_settings

- id (PK)
 - key
 - value (text/json)
 - created_at, updated_at

4.19. ████ audit_logs

- id (PK)
 - user_id (FK)
 - action (login, create_post, update_plan, ...)
 - entity_type (User, Workspace, Post,...)
 - entity_id
 - ip_address
 - user_agent
 - created_at

5. [REDACTED] API [REDACTED] (Endpoints)

- 5.1. **Auth & Users**
 - POST /api/auth/register
 - [REDACTED]: name, email, password, account_type, plan_id ([REDACTED])
 - [REDACTED]: user, access_token
 - POST /api/auth/login
 - [REDACTED]: email, password
 - [REDACTED]: user, access_token
 - POST /api/auth/logout
 - POST /api/auth/refresh
 - POST /api/auth/forgot-password
 - POST /api/auth/reset-password
 - GET /api/me

5.2. ■■■■■ Workspaces & Teams

- GET /api/workspaces

- POST /api/workspaces
- GET /api/workspaces/{id}
- PUT /api/workspaces/{id}
- DELETE /api/workspaces/{id} (████████████████████████████████)

- GET /api/workspaces/{id}/team
- POST /api/workspaces/{id}/team/invite
- ██████████: email, role
- PUT /api/workspaces/{id}/team/{memberId}
- █████████████████████████████████
- DELETE /api/workspaces/{id}/team/{memberId}

5.3. ████████ Plans & Subscriptions

- GET /api/plans
- GET /api/subscriptions/current
- POST /api/subscriptions/change-plan
- ██████████: plan_id

5.4. ████████ Social Accounts

- GET /api/workspaces/{id}/social-accounts
- POST /api/workspaces/{id}/social-accounts
- ██████████: platform, handle, display_name
- PUT /api/social-accounts/{id}
- DELETE /api/social-accounts/{id}
- POST /api/social-accounts/{id}/reconnect (████████████████████████████)
- POST /api/social-accounts/{id}/sync (████████████████████████████████)

5.5. ████████ Posts & Scheduling

- GET /api/workspaces/{id}/posts
- ██████████: status, platform, date_from, date_to
- GET /api/posts/{id}
- POST /api/workspaces/{id}/posts
- ██████████ (████████████████████████████ schedule █ media references)
- PUT /api/posts/{id}
- DELETE /api/posts/{id}

- POST /api/posts/{id}/schedule
- ██████████: scheduled_at
- POST /api/posts/{id}/publish-now
- GET /api/calendar
- █████████████████████ (██)

5.6. ████████ Ideas

- GET /api/workspaces/{id}/ideas
- POST /api/workspaces/{id}/ideas
- GET /api/ideas/{id}
- PUT /api/ideas/{id}
- DELETE /api/ideas/{id}
- POST /api/ideas/{id}/convert-to-post

5.7. ████████ Templates

- GET /api/workspaces/{id}/templates
- POST /api/workspaces/{id}/templates
- GET /api/templates/{id}
- PUT /api/templates/{id}
- DELETE /api/templates/{id}

5.8. ████████ Assets

- GET /api/workspaces/{id}/assets
- POST /api/workspaces/{id}/assets
- ██████████ (multipart/form-data)
- GET /api/assets/{id}

- DELETE /api/assets/{id}

5.9. Notifications

- GET /api/notifications
- POST /api/notifications/mark-all-read
- POST /api/notifications/{id}/read

5.10. ■■■■■ AI Tools & Requests

- GET /api/ai/tools
- GET /api/ai/tools/{key}
- POST /api/ai/tools/{key}/invoke
 - ████: input_text, platform, language, tone, extra_options...
 - ████: ████ (generated_outputs) + meta
- GET /api/ai/history
- ████/Workspace.

5.11. ■■■■■ Analytics

- GET /api/workspaces/{id}/analytics/overview
- GET /api/workspaces/{id}/analytics/platform
- GET /api/workspaces/{id}/analytics/audience
- GET /api/workspaces/{id}/analytics/content

5.12. Tickets (Support)

5.13. ■■■■■ Settings (User & Workspace)

- GET /api/account/settings
- PUT /api/account/settings
- GET /api/workspaces/{id}/settings
- PUT /api/workspaces/{id}/settings

5.14. Endpoints (Admin APIs)

- prefix: /api/admin/*
- ████:
 - GET /api/admin/overview
 - GET /api/admin/users
 - GET /api/admin/users/{id}
 - PUT /api/admin/users/{id}/status
 - GET /api/admin/workspaces
 - GET /api/admin/workspaces/{id}
 - PUT /api/admin/workspaces/{id}/status
 - GET /api/admin/plans
 - POST /api/admin/plans
 - PUT /api/admin/plans/{id}
 - GET /api/admin/ai/tools
 - POST /api/admin/ai/tools
 - PUT /api/admin/ai/tools/{id}
 - GET /api/admin/ai/usage
 - GET /api/admin/tickets
 - GET /api/admin/tickets/{id}
 - PUT /api/admin/tickets/{id} (██████████ ██████████)
 - POST /api/admin/tickets/{id}/messages
 - GET /api/admin/settings
 - PUT /api/admin/settings
 - GET /api/admin/logs

6. [REDACTED] (Background Jobs & Cron)

6.1. [REDACTED]

- [REDACTED] cron: cron/publish_scheduled_posts.php
- [REDACTED]:
 - [REDACTED] post_schedules [REDACTED] publish_status = 'pending' [REDACTED] scheduled_at <= [REDACTED].
 - [REDACTED] ([REDACTED] [REDACTED] [REDACTED] [REDACTED]).
 - [REDACTED] publish_status [REDACTED] completed [REDACTED] failed.
 - [REDACTED] [REDACTED] [REDACTED] [REDACTED].

6.2. [REDACTED] (Social Stats Sync)

- [REDACTED] cron: cron/sync_social_stats.php
- [REDACTED]:
 - [REDACTED] social_accounts [REDACTED] (auth_status = connected).
 - [REDACTED] APIs [REDACTED] ([REDACTED] [REDACTED]) [REDACTED] [REDACTED].
 - [REDACTED] analytics_snapshots.
- [REDACTED] last_synced_at [REDACTED] social_accounts.

6.3. [REDACTED]

- [REDACTED] cron: cron/recompute_analytics.php
- [REDACTED]:
 - [REDACTED] analytics_snapshots [REDACTED] posts [REDACTED] [REDACTED].
 - [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED].

6.4. [REDACTED]

- [REDACTED] cron: cron/cleanup_logs.php
- [REDACTED]:
 - [REDACTED] audit_logs / ai_request_logs [REDACTED] [REDACTED] [REDACTED].
 - [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED].

7. [REDACTED] (Security)

7.1. [REDACTED] (Authentication)

- [REDACTED] Tokens ([REDACTED] JWT) [REDACTED] [REDACTED] (PHP Sessions) [REDACTED] [REDACTED] [REDACTED].
- [REDACTED] [REDACTED] [REDACTED] [REDACTED] ([REDACTED] bcrypt/password_hash).

7.2. [REDACTED] (Authorization & RBAC)

- [REDACTED] [REDACTED] [REDACTED]: user, admin, super_admin.
- [REDACTED] [REDACTED] Workspace: owner, manager, editor, viewer.
- [REDACTED] [REDACTED] Endpoint [REDACTED]:
 - [REDACTED] [REDACTED] [REDACTED]
 - [REDACTED] [REDACTED] [REDACTED] Workspace/[REDACTED] [REDACTED]

7.3. [REDACTED]

- CSRF Protection [REDACTED] [REDACTED] ([REDACTED] [REDACTED] [REDACTED]).
- SQL Injection: [REDACTED] Prepared Statements [REDACTED] [REDACTED].
- XSS: [REDACTED] [REDACTED] (frontend) [REDACTED] [REDACTED] [REDACTED].
- Rate Limiting ([REDACTED]) [REDACTED] Endpoints [REDACTED] [REDACTED] [REDACTED] AI.

7.4. [REDACTED]

- [REDACTED] Tokens [REDACTED] [REDACTED] (access_token, refresh_token).
- [REDACTED] [REDACTED] [REDACTED] [REDACTED] Logs.

7.5. [REDACTED] (Auditing)

- [REDACTED] [REDACTED] [REDACTED] [REDACTED] audit_logs ([REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED] Workspace [REDACTED]

8. [REDACTED]

8.1. [REDACTED] (Config)

- Config/database.php: [REDACTED] [REDACTED] [REDACTED].
- Config/ai.php: [REDACTED] [REDACTED] [REDACTED] (API keys, endpoints).
- Config/mail.php: [REDACTED] [REDACTED] [REDACTED] (SMTP).
- Config/app.php: [REDACTED] [REDACTED] ([REDACTED] [REDACTED] [REDACTED] [REDACTED]).
- [REDACTED] .env [REDACTED] [REDACTED] [REDACTED] (passwords, keys).

8.2. [REDACTED] (Logging)

- Logger [REDACTED] Logs [REDACTED]:
 - [REDACTED] (log/app.log, log/error.log).
 - [REDACTED] [REDACTED] [REDACTED] (audit_logs, system_logs).
- [REDACTED] Logs: info, warning, error, critical.

8.3. [REDACTED]

- [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] (APM) [REDACTED].
- [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED].

9. [REDACTED]-[REDACTED]

[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]:

[REDACTED] 1 – [REDACTED] [REDACTED] [REDACTED]

- [REDACTED] [REDACTED] [REDACTED] [REDACTED].
- [REDACTED] [REDACTED] [REDACTED] (Connection.php).
- [REDACTED] Router [REDACTED] + [REDACTED] [REDACTED] index.php.
- [REDACTED] ResponseFormatter [REDACTED] [REDACTED] [REDACTED].
- [REDACTED] [REDACTED]: users, workspaces, team_members, plans, subscriptions.

[REDACTED] 2 – [REDACTED] Auth & Users & Workspaces

- [REDACTED] AuthService, UserService, WorkspaceService.
- [REDACTED] Controllers [REDACTED] [REDACTED].
- [REDACTED] Endpoints:
 - /api/auth/register, /api/auth/login, /api/me, /api/workspaces
 - [REDACTED] [REDACTED]-[REDACTED] ([REDACTED] [REDACTED] [REDACTED] Workspace).

[REDACTED] 3 – Teams, Social Accounts, Plans

- [REDACTED] [REDACTED] [REDACTED] [REDACTED] Workspace (team_members).
- [REDACTED] [REDACTED] [REDACTED] [REDACTED] (plans, subscriptions) – [REDACTED] [REDACTED] [REDACTED].
- [REDACTED] social_accounts APIs ([REDACTED] / [REDACTED] / [REDACTED] [REDACTED]).

[REDACTED] 4 – [REDACTED] (Posts & Ideas & Templates)

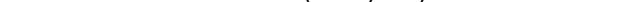
- [REDACTED] PostService, IdeaService, TemplateService.
- [REDACTED] [REDACTED] posts, post_schedules, ideas, templates.
- [REDACTED] Endpoints [REDACTED]:
 - [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED].
 - [REDACTED] [REDACTED]-[REDACTED] (calendar, schedule-post, ideas, templates).

[REDACTED] 5 – [REDACTED] (Assets) [REDACTED]

- [REDACTED] AssetService [REDACTED] Storage ([REDACTED] [REDACTED] [REDACTED] [REDACTED]).
- [REDACTED] [REDACTED] assets.
- [REDACTED] [REDACTED] ([REDACTED] / [REDACTED] [REDACTED]) [REDACTED] [REDACTED] [REDACTED] [REDACTED].

[REDACTED] 6 – [REDACTED] (AI Orchestration)

- [REDACTED] AiClient ([REDACTED] [REDACTED] [REDACTED] AI).
- [REDACTED] AiOrchestrationService [REDACTED] [REDACTED].
- [REDACTED] [REDACTED] ai_tools [REDACTED] ai_request_logs.

7 – (Analytics)  100%

- analytics_snapshots.

- cron jobs:

- publish_scheduled_posts.php
 - sync_social_stats.php
 - recompute_analytics.php

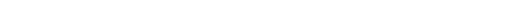
- AnalyticsService Endpoints .

8 -

- ■■■■■ NotificationsService ■ TicketsService.
 - ■■■■■ notifications, tickets, ticket_messages.
 - Endpoints ■■■■■ ■■■■■ ■■■■■.

9 – (Admin APIs)

- Admin*Services (Users, Workspaces, Plans, AI, Tickets, Settings, Logs).
 - Controllers Http/Controllers/Admin.
 - Endpoints /api/admin/* Admin Panel

10 – 

- [REDACTED]
 - [REDACTED]
 - [REDACTED] Logs [REDACTED].
 - [REDACTED] API ([REDACTED] JSON [REDACTED]).

██████████ ██████████ :

- [REDACTED] (Endpoints + Services + Models) [REDACTED]