Instabrix Database models

Model: User

**Purpose**: Represents individuals who interact with the SaaS, such as agency owners, admins, or sub-account users/guests.

**Properties**:

* name: User’s full name.
* avatarUrl: URL to the user’s profile picture (stored as text).
* email: Unique email address for authentication.
* createdAt: Timestamp of user creation.
* updatedAt: Timestamp of last update.
* role: User’s role (e.g., AGENCY\_OWNER, SUBACCOUNT\_USER).
* agencyId: Foreign key linking to the Agency the user belongs to.
* Permissions[]: List of permissions for sub-accounts.
* Tickets[]: Kanban board tickets assigned to the user.
* Notification[]: Notifications sent to the user.

**Working Together:**

* Relates to **Agency** for agency membership.
* Relates to **Permissions** to define sub-account access.
* Relates to **Ticket** for task assignments.
* Relates to **Notification** for user alerts.

**Work Flow in Application:**

* User signs up or is invited (via **Invitation**).
* Assigned to an **Agency** and given a **role**.
* Permissions are set via **Permissions** for specific **SubAccounts**.
* User interacts with features (e.g., Kanban tickets, funnels) based on permissions.
* Receives **notifications** as needed.

Model: Agency

**Purpose**: Represents a top-level business entity that manages sub-accounts, users, and stripe integrations.

**Properties:**

* connectAccountId: Stripe Connect account ID for payment processing.
* customerId: Stripe customer ID for subscriptions.
* name: Agency name.
* agencyLogo: URL to the agency logo.
* companyEmail: Agency contact email.
* companyPhone: Agency contact phone.
* whiteLabel: Boolean for white-labeling sub-account dashboards.
* address, city, zipCode, state, country: Agency location.
* goal: Target number (e.g., sales or leads).
* users[]: List of associated users.
* subAccount[]: List of sub-accounts.
* sidebarOption[]: Custom sidebar menu options.
* invitation[]: Pending user invitations.
* notification[]: Agency-level notifications.
* subscription?: Optional subscription details.
* addOns[]: Optional add-on products.

**Working Together:**

* Relates to **User** for agency members.
* Relates to **SubAccount** for client management.
* Relates to **Subscription** and **AddOns** for Stripe billing.
* Relates to **Invitation** for onboarding users.

**Flow in application:**

* **Agency** is created with basic info and Stripe setup.
* **Users** are invited and added.
* **Sub-accounts** are created and managed.
* **Subscriptions** and **add-ons** are configured via Stripe.
* **Notifications** and **sidebar** options are customized.

Model: SubAccount

**Purpose:** Represents a client account under an agency, managing its own funnels, media, and workflows.

**Properties:**

* connectAccountId: Optional Stripe Connect ID for the sub-account.
* name: Sub-account name.
* subAccountLogo: URL to the sub-account logo.
* companyEmail, companyPhone: Contact details.
* goal: Target number.
* address, city, zipcode, state, country: Location.
* agencyId: Foreign key to the parent Agency.
* sidebarOption[], permissions[], funnels[], media[], contact[], trigger[], Automation[], pipeline[], Tags[], Notification[]: Related resources.

**Working Together:**

* Relates to **Agency** as a parent entity.
* Relates to **Permissions** for user access.
* Relates to **Funnel, Media, Contact, Pipeline**, etc., for feature management.

**Flow in Application:**

* **Sub-account** is created under an agency.
* **Permissions** are assigned to users.
* **Funnels, media, contacts, and pipelines** are managed.
* **Automations** and **notifications** are set up.

Model: Tag

**Purpose:** Manages labels for organizing tickets in the kanban board

**Properties:**

* name: Tag name.
* color: Tag color for visual distinction.
* subAccountId: Foreign key to the SubAccount.
* tickets[]: Related tickets.

**Working Together**:

* Relates to **SubAccount** for scope.
* Relates to **Ticket** for tagging tasks.

**Flow in Application**:

* **Tags** are created for a **sub-account**.
* Applied to **tickets** in the **Kanban board**.

Model: Pipeline

**Purpose:** Represents a kanban board for project management.

**Properties:**

* name: Pipeline name.
* subAccountId: Foreign key to the SubAccount.
* lane[]: List of lanes within the pipeline.

**Working Together:**

* Relates to **SubAccount** for scope.
* Relates to **Lane** for board structure.

**Flow in Application:**

* **Pipeline** is created for a **sub-account**.
* **Lanes** are added to organize tasks.

Model: Lane

**Purpose:** Represents a column in a kanban board (e.g, To Do, In Progress).

**Properties:**

* name: Lane name.
* pipelineId: Foreign key to the Pipeline.
* tickets[]: List of tickets in the lane.
* order: Position of the lane.

**Working Together**:

* Relates to **Pipeline** as a child entity.
* Relates to **Ticket** for task placement.

**Flow in Application**:

* **Lane** is created within a **pipeline**.
* **Tickets** are added and ordered.

Model: Ticket

**Purpose:** Represents individual tasks in the kanban board

**Properties:**

* name: Task name.
* laneId: Foreign key to the Lane.
* order: Position in the lane.
* value, description: Optional task details.
* tags[]: Associated tags.
* customerId: Foreign key to Contact.
* assignedUserId: Foreign key to User.

**Working Together**:

* Relates to **Lane, Tag, Contact, and User** for task context.

**Flow in Application**:

* **Ticket** is created in a **lane**.
* Assigned to a **user** and **tagged**.
* Updated as tasks progress.