

HIRELINK

Data Dictionary

Complete Database Column Reference

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Table of Contents

Table of Contents	2
1. Introduction.....	3
1.1 Conventions Used	3
2. users.....	3
3. user_sessions	3
4. user_addresses.....	4
5. service_providers	4
6. service_categories	5
7. services	5
8. bookings	6
9. payments.....	6
10. reviews	7
11. conversations	7
12. messages	8
13. notifications	8
14. ENUM Values Reference	9

1. Introduction

This Data Dictionary provides a comprehensive reference for all database tables and columns in the HireLink platform. Each table is documented with column names, data types, constraints, and descriptions.

1.1 Conventions Used

Abbreviation	Meaning
PK	Primary Key
FK	Foreign Key (with reference table)
AI	Auto Increment
UNIQUE	Unique constraint
INDEX	Indexed column
DEFAULT	Has default value

2. users

Stores all user accounts including customers, service providers, and administrators

Column Name	Data Type	Null	Constraints	Description
user_id	BIGINT UNSIGNED	NO	PK, AI	Unique user identifier
name	VARCHAR(100)	NO		User's full name
email	VARCHAR(150)	YES	UNIQUE	Email address (optional)
phone	VARCHAR(15)	NO	UNIQUE	Phone number (primary identifier)
password_hash	VARCHAR(255)	NO		BCrypt hashed password
profile_image_url	VARCHAR(500)	YES		Profile picture URL
date_of_birth	DATE	YES		User's date of birth
gender	ENUM	YES		MALE, FEMALE, OTHER, PREFER_NOT_TO_SAY
user_type	ENUM	NO	DEFAULT	CUSTOMER, PROVIDER, ADMIN, SUPER_ADMIN
account_status	ENUM	YES	DEFAULT	ACTIVE, INACTIVE, SUSPENDED, BANNED, PENDING
is_email_verified	BOOLEAN	YES	DEFAULT FALSE	Email verification flag
is_phone_verified	BOOLEAN	YES	DEFAULT FALSE	Phone verification flag
preferred_language	ENUM	YES	DEFAULT EN	EN, HI, TA, TE, BN, MR, GU, KN, ML
notification_preferences	JSON	YES		Notification settings
failed_login_attempts	INT	YES	DEFAULT 0	Login failure counter
locked_until	TIMESTAMP	YES		Account lock expiry
last_login_at	TIMESTAMP	YES		Last login timestamp
created_at	TIMESTAMP	YES	DEFAULT NOW	Record creation time
updated_at	TIMESTAMP	YES	AUTO UPDATE	Last modification time
deleted_at	TIMESTAMP	YES		Soft delete timestamp

3. user_sessions

Manages user authentication sessions and JWT tokens

Column Name	Data Type	Null	Constraints	Description
session_id	BIGINT UNSIGNED	NO	PK, AI	Unique session identifier
user_id	BIGINT UNSIGNED	NO	FK→users	Reference to user
access_token_hash	VARCHAR(255)	NO		Hashed access token

Column Name	Data Type	Null	Constraints	Description
refresh_token_hash	VARCHAR(255)	NO		Hashed refresh token
device_type	ENUM	YES	DEFAULT WEB	WEB, ANDROID, IOS, DESKTOP
device_info	VARCHAR(255)	YES		Device details
ip_address	VARCHAR(45)	YES		Client IP address
user_agent	TEXT	YES		Browser/app user agent
access_token_expires_at	TIMESTAMP	NO		Access token expiry
refresh_token_expires_at	TIMESTAMP	NO		Refresh token expiry
is_active	BOOLEAN	YES	DEFAULT TRUE	Session active flag
revoked_at	TIMESTAMP	YES		Session revocation time
created_at	TIMESTAMP	YES	DEFAULT NOW	Session creation time

4. user_addresses

Stores multiple addresses for each user

Column Name	Data Type	Null	Constraints	Description
address_id	BIGINT UNSIGNED	NO	PK, AI	Unique address identifier
user_id	BIGINT UNSIGNED	NO	FK→users	Reference to user
address_type	ENUM	YES	DEFAULT HOME	HOME, WORK, OTHER
address_label	VARCHAR(50)	YES		Custom label
address_line1	VARCHAR(255)	NO		Street address
address_line2	VARCHAR(255)	YES		Additional address
landmark	VARCHAR(255)	YES		Nearby landmark
city	VARCHAR(100)	NO		City name
state	VARCHAR(100)	NO		State name
pincode	VARCHAR(6)	NO	INDEX	Postal code
country	VARCHAR(50)	YES	DEFAULT India	Country
latitude	DECIMAL(10,8)	YES		GPS latitude
longitude	DECIMAL(11,8)	YES		GPS longitude
is_default	BOOLEAN	YES	DEFAULT FALSE	Default address flag
is_active	BOOLEAN	YES	DEFAULT TRUE	Active flag
created_at	TIMESTAMP	YES	DEFAULT NOW	Creation time

5. service_providers

Extended profile information for service provider users

Column Name	Data Type	Null	Constraints	Description
provider_id	BIGINT UNSIGNED	NO	PK, AI	Unique provider identifier
user_id	BIGINT UNSIGNED	NO	FK→users, UNIQUE	Reference to user account
business_name	VARCHAR(200)	YES		Business/shop name
business_description	TEXT	YES		Detailed description
tagline	VARCHAR(255)	YES		Short tagline
experience_years	INT UNSIGNED	YES	DEFAULT 0	Years of experience
specializations	JSON	YES		Array of specializations
certifications	JSON	YES		Array of certifications
base_latitude	DECIMAL(10,8)	YES		Base location latitude
base_longitude	DECIMAL(11,8)	YES		Base location longitude
base_pincode	VARCHAR(6)	YES	INDEX	Base postal code
service_radius_km	INT UNSIGNED	YES	DEFAULT 10	Service coverage radius

Column Name	Data Type	Null	Constraints	Description
aadhaar_number_encrypted	VARCHAR(500)	YES		Encrypted Aadhaar
pan_number_encrypted	VARCHAR(500)	YES		Encrypted PAN
kyc_status	ENUM	YES	DEFAULT NOT_SUBMITTED, PENDING, NOT_SUBMITTED	NOT_SUBMITTED, PENDING, VERIFIED, REJECTED
kyc_verified_at	TIMESTAMP	YES		KYC verification time
average_rating	DECIMAL(3,2)	YES	DEFAULT 0.00	Average rating (0-5)
total_ratings	INT UNSIGNED	YES	DEFAULT 0	Total rating count
total_bookings	INT UNSIGNED	YES	DEFAULT 0	Total bookings received
completed_bookings	INT UNSIGNED	YES	DEFAULT 0	Completed bookings
completion_rate	DECIMAL(5,2)	YES	DEFAULT 0.00	Completion percentage
total_earnings	DECIMAL(12,2)	YES	DEFAULT 0.00	Total earnings
wallet_balance	DECIMAL(12,2)	YES	DEFAULT 0.00	Current wallet balance
is_available	BOOLEAN	YES	DEFAULT TRUE	Availability flag
availability_status	ENUM	YES	DEFAULT OFFLINE	ONLINE, OFFLINE, BUSY, ON_BREAK
is_featured	BOOLEAN	YES	DEFAULT FALSE	Featured provider flag
created_at	TIMESTAMP	YES	DEFAULT NOW	Creation time

6. service_categories

Master list of service categories with hierarchical support

Column Name	Data Type	Null	Constraints	Description
category_id	BIGINT UNSIGNED	NO	PK, AI	Unique category identifier
category_name	VARCHAR(100)	NO	UNIQUE	Category name
category_slug	VARCHAR(100)	NO	UNIQUE	URL-friendly slug
category_description	TEXT	YES		Category description
category_icon	VARCHAR(255)	YES		Icon identifier
category_image_url	VARCHAR(500)	YES		Category image URL
parent_category_id	BIGINT UNSIGNED	YES	FK→self	Parent category (hierarchy)
category_level	INT UNSIGNED	YES	DEFAULT 1	Hierarchy level
display_order	INT UNSIGNED	YES	DEFAULT 0	Sort order
min_base_price	DECIMAL(10,2)	YES		Minimum price guideline
max_base_price	DECIMAL(10,2)	YES		Maximum price guideline
price_unit	ENUM	YES	DEFAULT PER_VISIT	PER_HOUR, PER_VISIT, PER_SQFT, FIXED
is_active	BOOLEAN	YES	DEFAULT TRUE	Active flag
is_featured	BOOLEAN	YES	DEFAULT FALSE	Featured flag
created_at	TIMESTAMP	YES	DEFAULT NOW	Creation time

7. services

Services offered by providers within categories

Column Name	Data Type	Null	Constraints	Description
service_id	BIGINT UNSIGNED	NO	PK, AI	Unique service identifier
provider_id	BIGINT UNSIGNED	NO	FK→providers	Reference to provider
category_id	BIGINT UNSIGNED	NO	FK→categories	Reference to category
service_name	VARCHAR(200)	NO		Service name
service_description	TEXT	YES		Detailed description
service_highlights	JSON	YES		Array of highlights
base_price	DECIMAL(10,2)	NO		Base price
price_type	ENUM	YES	DEFAULT FIXED	FIXED, HOURLY, PER_SQFT, STARTING_FROM

Column Name	Data Type	Null	Constraints	Description
min_price	DECIMAL(10,2)	YES		Minimum price
max_price	DECIMAL(10,2)	YES		Maximum price
estimated_duration_minutes	INT UNSIGNED	YES		Estimated duration
advance_booking_hours	INT UNSIGNED	YES	DEFAULT 2	Required advance booking
materials_included	BOOLEAN	YES	DEFAULT FALSE	Materials included flag
is_active	BOOLEAN	YES	DEFAULT TRUE	Active flag
times_booked	INT UNSIGNED	YES	DEFAULT 0	Booking count
average_rating	DECIMAL(3,2)	YES	DEFAULT 0.00	Service rating
created_at	TIMESTAMP	YES	DEFAULT NOW	Creation time

8. bookings

Service booking records connecting users, providers, and services

Column Name	Data Type	Null	Constraints	Description
booking_id	BIGINT UNSIGNED	NO	PK, AI	Unique booking identifier
booking_number	VARCHAR(20)	NO	UNIQUE	Human-readable booking number
user_id	BIGINT UNSIGNED	NO	FK→users	Customer reference
provider_id	BIGINT UNSIGNED	NO	FK→providers	Provider reference
service_id	BIGINT UNSIGNED	NO	FK→services	Service reference
scheduled_date	DATE	NO	INDEX	Scheduled date
scheduled_time	TIME	NO		Scheduled time
service_address	TEXT	NO		Service location address
service_pincode	VARCHAR(6)	NO	INDEX	Service location pincode
service_latitude	DECIMAL(10,8)	YES		Location latitude
service_longitude	DECIMAL(11,8)	YES		Location longitude
issue_title	VARCHAR(255)	YES		Issue summary
issue_description	TEXT	YES		Detailed issue description
issue_images	JSON	YES		Array of image URLs
urgency_level	ENUM	YES	DEFAULT MEDIUM	LOW, MEDIUM, HIGH, EMERGENCY
estimated_amount	DECIMAL(10,2)	YES		Estimated cost
material_cost	DECIMAL(10,2)	YES	DEFAULT 0.00	Material expenses
labor_cost	DECIMAL(10,2)	YES	DEFAULT 0.00	Labor charges
final_amount	DECIMAL(10,2)	YES		Final invoiced amount
booking_status	ENUM	YES	DEFAULT PENDING	PENDING, ACCEPTED, REJECTED, IN_PROGRESS, COMPLETED, CANCELLED
cancelled_by	ENUM	YES		USER, PROVIDER, ADMIN, SYSTEM
cancellation_reason	TEXT	YES		Reason for cancellation
work_summary	TEXT	YES		Completion summary
user_rating	DECIMAL(3,2)	YES		Rating given by user
created_at	TIMESTAMP	YES	DEFAULT NOW	Creation time

9. payments

Payment records for completed bookings

Column Name	Data Type	Null	Constraints	Description
payment_id	BIGINT UNSIGNED	NO	PK, AI	Unique payment identifier
payment_number	VARCHAR(30)	NO	UNIQUE	Payment reference number
booking_id	BIGINT UNSIGNED	NO	FK→bookings	Reference to booking

Column Name	Data Type	Null	Constraints	Description
payer_user_id	BIGINT UNSIGNED	NO	FK→users	Customer making payment
payee_provider_id	BIGINT UNSIGNED	NO	FK→providers	Provider receiving payment
gross_amount	DECIMAL(12,2)	NO		Total amount charged
platform_fee	DECIMAL(12,2)	YES	DEFAULT 0.00	Platform commission
payment_gateway_fee	DECIMAL(12,2)	YES	DEFAULT 0.00	Gateway charges
tax_amount	DECIMAL(12,2)	YES	DEFAULT 0.00	GST amount
net_amount	DECIMAL(12,2)	NO		Net amount after fees
currency	VARCHAR(3)	YES	DEFAULT INR	Currency code
payment_method	ENUM	NO		UPI, CREDIT_CARD, DEBIT_CARD, NET_BANKING, CASH
payment_gateway	ENUM	NO		RAZORPAY, PAYTM, PHONEPE, CASH
gateway_payment_id	VARCHAR(100)	YES		Gateway transaction ID
payment_status	ENUM	YES	DEFAULT PENDING	PENDING, COMPLETED, FAILED, REFUNDED
payout_status	ENUM	YES	DEFAULT PENDING	PENDING, COMPLETED, FAILED
payout_amount	DECIMAL(12,2)	YES		Amount paid to provider
initiated_at	TIMESTAMP	YES	DEFAULT NOW	Payment initiation time
completed_at	TIMESTAMP	YES		Payment completion time

10. reviews

User reviews and ratings for completed bookings

Column Name	Data Type	Null	Constraints	Description
review_id	BIGINT UNSIGNED	NO	PK, AI	Unique review identifier
booking_id	BIGINT UNSIGNED	NO	FK→bookings, UNIQUE	Reference to booking
reviewer_id	BIGINT UNSIGNED	NO	FK→users	User writing review
reviewee_provider_id	BIGINT UNSIGNED	NO	FK→providers	Provider being reviewed
overall_rating	DECIMAL(3,2)	NO		Overall rating (1-5)
quality_rating	DECIMAL(3,2)	YES		Quality rating
punctuality_rating	DECIMAL(3,2)	YES		Punctuality rating
professionalism_rating	DECIMAL(3,2)	YES		Professionalism rating
value_for_money_rating	DECIMAL(3,2)	YES		Value rating
review_title	VARCHAR(255)	YES		Review title
review_text	TEXT	YES		Review content
review_images	JSON	YES		Array of image URLs
provider_response	TEXT	YES		Provider's response
moderation_status	ENUM	YES	DEFAULT PENDING	PENDING, APPROVED, REJECTED, FLAGGED
is_visible	BOOLEAN	YES	DEFAULT TRUE	Visibility flag
helpful_count	INT UNSIGNED	YES	DEFAULT 0	Helpful votes
created_at	TIMESTAMP	YES	DEFAULT NOW	Creation time

11. conversations

Chat conversations between users and providers

Column Name	Data Type	Null	Constraints	Description
conversation_id	BIGINT UNSIGNED	NO	PK, AI	Unique conversation identifier
booking_id	BIGINT UNSIGNED	YES	FK→bookings	Related booking (optional)

Column Name	Data Type	Null	Constraints	Description
user_id	BIGINT UNSIGNED	NO	FK→users	Customer in conversation
provider_id	BIGINT UNSIGNED	NO	FK→providers	Provider in conversation
last_message_text	TEXT	YES		Preview of last message
last_message_at	TIMESTAMP	YES		Last message timestamp
last_message_by	ENUM	YES		USER, PROVIDER
user_unread_count	INT UNSIGNED	YES	DEFAULT 0	Unread count for user
provider_unread_count	INT UNSIGNED	YES	DEFAULT 0	Unread count for provider
is_active	BOOLEAN	YES	DEFAULT TRUE	Active flag
created_at	TIMESTAMP	YES	DEFAULT NOW	Creation time

12. messages

Individual messages within conversations

Column Name	Data Type	Null	Constraints	Description
message_id	BIGINT UNSIGNED	NO	PK, AI	Unique message identifier
conversation_id	BIGINT UNSIGNED	NO	FK→conversations	Parent conversation
sender_id	BIGINT UNSIGNED	NO	FK→users	Message sender
sender_type	ENUM	NO		USER, PROVIDER, SYSTEM
message_type	ENUM	YES	DEFAULT TEXT	TEXT, IMAGE, FILE, LOCATION
message_text	TEXT	YES		Message content
attachment_url	VARCHAR(500)	YES		Attachment URL
attachment_type	VARCHAR(50)	YES		MIME type
is_read	BOOLEAN	YES	DEFAULT FALSE	Read status
read_at	TIMESTAMP	YES		Read timestamp
is_deleted	BOOLEAN	YES	DEFAULT FALSE	Soft delete flag
sent_at	TIMESTAMP	YES	DEFAULT NOW	Send timestamp

13. notifications

Push notifications and in-app notifications

Column Name	Data Type	Null	Constraints	Description
notification_id	BIGINT UNSIGNED	NO	PK, AI	Unique notification identifier
user_id	BIGINT UNSIGNED	NO	FK→users	Recipient user
notification_type	ENUM	NO		BOOKING_CREATED, PAYMENT_RECEIVED, NEW_REVIEW, etc.
title	VARCHAR(255)	NO		Notification title
message	TEXT	NO		Notification message
reference_type	ENUM	YES		BOOKING, PAYMENT, REVIEW, MESSAGE
reference_id	BIGINT UNSIGNED	YES		Related entity ID
action_url	VARCHAR(500)	YES		Deep link URL
is_read	BOOLEAN	YES	DEFAULT FALSE	Read status
read_at	TIMESTAMP	YES		Read timestamp
is_push_sent	BOOLEAN	YES	DEFAULT FALSE	Push notification sent
created_at	TIMESTAMP	YES	DEFAULT NOW	Creation time

14. ENUM Values Reference

This section lists all ENUM types and their valid values.

Column	Valid Values
users.user_type	CUSTOMER, PROVIDER, ADMIN, SUPER_ADMIN
users.account_status	ACTIVE, INACTIVE, SUSPENDED, BANNED, PENDING_VERIFICATION
users.gender	MALE, FEMALE, OTHER, PREFER_NOT_TO_SAY
users.preferred_language	EN, HI, TA, TE, BN, MR, GU, KN, ML
user_sessions.device_type	WEB, ANDROID, IOS, DESKTOP
user_addresses.address_type	HOME, WORK, OTHER
service_providers.kyc_status	NOT_SUBMITTED, PENDING, VERIFIED, REJECTED, EXPIRED
service_providers.availability_status	ONLINE, OFFLINE, BUSY, ON_BREAK
provider_documents.document_type	AADHAAR_FRONT, AADHAAR_BACK, PAN_CARD, ADDRESS_PROOF, CERTIFICATION
service_categories.price_unit	PER_HOUR, PER_VISIT, PER_SQFT, FIXED
services.price_type	FIXED, HOURLY, PER_SQFT, STARTING_FROM, NEGOTIABLE
bookings.booking_status	PENDING, ACCEPTED, REJECTED, CONFIRMED, IN_PROGRESS, PAUSED, COMPLETED, CANCELLED, DISPUTED, REFUNDED
bookings.urgency_level	LOW, MEDIUM, HIGH, EMERGENCY
payments.payment_method	UPI, CREDIT_CARD, DEBIT_CARD, NET_BANKING, WALLET, CASH, BANK_TRANSFER
payments.payment_gateway	RAZORPAY, PAYTM, PHONEPE, CASH, OTHER
payments.payment_status	PENDING, PROCESSING, COMPLETED, FAILED, CANCELLED, REFUNDED
reviews.moderation_status	PENDING, APPROVED, REJECTED, FLAGGED
messages.message_type	TEXT, IMAGE, FILE, LOCATION, BOOKING_UPDATE, SYSTEM