

Database model documentation

Table of contents

1. Model details	4
2. Tables	5
1.1. Table freelancer	5
1.2. Table user_account	5
1.3. Table hire_manager	6
1.4. Table skill	6
1.5. Table has_skill	7
1.6. Table Education	7
1.7. Table job	7
1.8. Table payment_type	8
1.9. Table other_skills	8
1.10. Table proposal	9
1.11. Table proposal_status_catalog	9
1.12. Table message	10
1.13. Table attachment	10
1.14. Table contract	10
1.15. Table verification	11
1.16. Table Experince	11
1.17. Table Language	11
1.18. Table Service	12
1.19. Table Has_service	12
1.20. Table withdraw	12
1.21. Table Notifications	12
1.22. Table Rating	13
3. References	14
2.1. Reference freelancer_user_account	14
2.2. Reference hire_manager_user_account	14
2.3. Reference has_skill_freelancer	14
2.4. Reference has_skill_skill	14
2.5. Reference job_hire_manager	14
2.6. Reference job_skill	14
2.7. Reference job_payment_type	14
2.8. Reference other_skills_job	14
2.9. Reference other_skills_skill	15
2.10. Reference proposal_job	15

2.11. Reference proposal_freelancer	15
2.12. Reference proposal_payment_type	15
2.13. Reference proposal_proposal_status_catalog	15
2.14. Reference message_freelancer	15
2.15. Reference message_hire_manager	15
2.16. Reference message_proposal	16
2.17. Reference message_proposal_status_catalog	16
2.18. Reference attachment_message	16
2.19. Reference contract_proposal	16
2.20. Reference contract_payment_type	16
2.21. Reference freelancer_verification	16
2.22. Reference Experince_freelancer	16
2.23. Reference Education_freelancer	16
2.24. Reference Language_freelancer	17
2.25. Reference Has_service_Service	17
2.26. Reference Has_service_freelancer	17
2.27. Reference contract_freelancer	17
2.28. Reference withdraw_payment_type	17
2.29. Reference withdraw_freelancer	17
2.30. Reference Notifications_hire_manager	17
2.31. Reference Notifications_freelancer	17
2.32. Reference Rating_hire_manager	18
2.33. Reference Rating_freelancer	18
2.34. Reference job_verification	18
4. Subject areas	19

1. Model details

Model name:

Freelance platform

Version:

2.4

Database engine:

PostgreSQL

Description:

2. Tables

2.1. Table freelancer

2.1.1. Columns

Column name	Type	Properties	Description
id	int	PK	
user_account_id	int		
registration_date	date		
overview	text		
verification_id	int		
cv	varchar(255)		
title	text		
bio	text		
rate	money		
rating	float		
country	text		
street	text		
city	text		
phone_Number	text		
image	text		
point	int	null	
verification_state	bool		

2.1.2. Alternate keys

Key name	Columns	Description
freelancer_ak_1	user_account_id	

2.2. Table user_account

2.2.1. Columns

Column name	Type	Properties	Description
id	int	PK	

user_name	varchar(128)		
password	varchar(32)		
email	varchar(128)		
first_name	varchar(128)		
last_name	varchar(128)		

2.2.2. Alternate keys

Key name	Columns	Description
user_account_ak_1	user_name	
user_account_ak_2	email	

2.3. Table hire_manager

2.3.1. Columns

Column name	Type	Properties	Description
id	int	PK	
user_account_id	int		
registration_date	date		
location	varchar(255)		
verifacation_state	bool	null	

2.3.2. Alternate keys

Key name	Columns	Description
hire_manager_ak_1	user_account_id	

2.4. Table skill

Description:

list of all skills - used to describe freelancers and jobs

2.4.1. Columns

Column name	Type	Properties	Description
id	int	PK	
skill_name	varchar(128)		

2.4.2. Alternate keys

Key name	Columns	Description
skill_ak_1	skill_name	

2.5. Table has_skill

2.5.1. Columns

Column name	Type	Properties	Description
id	int	PK	
freelancer_id	int		
skill_id	int		

2.5.2. Alternate keys

Key name	Columns	Description
has_skill_ak_1	freelancer_id, skill_id	

2.6. Table Education

Description:

all certifications related with user

2.6.1. Columns

Column name	Type	Properties	Description
id	int	PK	
school	text		
degree	text		
feild_of_study	text		
date_from	date		
date_to	date		
freelancer_id	int		

2.7. Table job

2.7.1. Columns

Column name	Type	Properties	Description
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id	int	PK	
hire_manager_id	int		
type(paid-free)	Enum		
title	text		
description	text		
main_skill_id	int		
payment_type_id	int		
payment_amount	decimal(8,2)		
location	text	null	
N_of_people	int		
task_status	Enum		
status	Enum(open-resolved))		
duration	int		
verification_id	int		

2.8. Table payment_type

Description:

per hour, fixed price

2.8.1. Columns

Column name	Type	Properties	Description
id	int	PK	
type_name	varchar(128)		

2.8.2. Alternate keys

Key name	Columns	Description
payment_type_ak_1	type_name	

2.9. Table other_skills

2.9.1. Columns

Column name	Type	Properties	Description
id	int	PK	
job_id	int		

skill_id	int		
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2.9.2. Alternate keys

Key name	Columns	Description
other_skills_ak_1	job_id, skill_id	

2.10. Table proposal

2.10.1. Columns

Column name	Type	Properties	Description
id	int	PK	
job_id	int		
freelancer_id	int		
proposal_time	timestamp		
payment_type_id	int		
payment_amount	decimal(8,2)		
current_proposal_status	int		
delevery_Time	int		
description	text		
attachment	text		

2.11. Table proposal_status_catalog

Description:

proposal sent, negotiation phase, proposal withdrawn, proposal rejected/accepted, job started, job finished (successfully), job finished (unsuccessfully)

2.11.1. Columns

Column name	Type	Properties	Description
id	int	PK	
status_name	varchar(128)		

2.11.2. Alternate keys

Key name	Columns	Description
proposal_status_catalog_ak_1	status_name	

2.12. Table message

Description:

sender is either freelancer, either hire manager

2.12.1. Columns

Column name	Type	Properties	Description
id	int	PK	
freelancer_id	int	null	
hire_manager_id	int	null	
message_time	timestamp		
message_text	text		
proposal_id	int		
proposal_status_catalog_id	int	null	hire manager or freelancer can set status with each message

2.13. Table attachment

2.13.1. Columns

Column name	Type	Properties	Description
id	int	PK	
message_id	int		
attachment_link	text		

2.14. Table contract

2.14.1. Columns

Column name	Type	Properties	Description
id	int	PK	
proposal_id	int		
freelancer_id	int		
start_time	timestamp		
end_time	timestamp	null	
payment_type_id	int		
payment_amount	decimal(8,2)		

2.15. Table verification

2.15.1. Columns

Column name	Type	Properties	Description
id	int	PK	
first_name_Ar	text		
last_name_Ar	text		
country	text		
date_of_birth	date		
front_image	text		
back_image	text		
personal_photo	text		

2.16. Table Experince

2.16.1. Columns

Column name	Type	Properties	Description
id	int	PK	
title	text		
description	text		
region	text		
country	text		
start_date	date		
end_date	date		
freelancer_id	int		

2.17. Table Language

2.17.1. Columns

Column name	Type	Properties	Description
id	int	PK	
language	text		
level	text		
freelancer_id	int		

2.18. Table Service

2.18.1. Columns

Column name	Type	Properties	Description
id	int	PK	
service_name	text		

2.19. Table Has_service

2.19.1. Columns

Column name	Type	Properties	Description
id	int	PK	
Service_id	int		
freelancer_id	int		

2.20. Table withdraw

2.20.1. Columns

Column name	Type	Properties	Description
id	int	PK	
freelancer_id	int		
payment_amount	float		
payment_type_id	int		
date	date		
status	text		

2.21. Table Notifications

2.21.1. Columns

Column name	Type	Properties	Description
id	int	PK	
message	text		
status	text		
created_at	date		
hire_manager_id	int		

freelancer_id	int		
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2.22. Table Rating

2.22.1. Columns

Column name	Type	Properties	Description
id	int		
rating_value	int		
comment	int		
hire_manager_id	int		
freelancer_id	int		

3. References

3.1. Reference freelancer_user_account

user_account	0..*	freelancer
id	<->	user_account_id

3.2. Reference hire_manager_user_account

user_account	0..*	hire_manager
id	<->	user_account_id

3.3. Reference has_skill_freelancer

freelancer	0..*	has_skill
id	<->	freelancer_id

3.4. Reference has_skill_skill

skill	0..*	has_skill
id	<->	skill_id

3.5. Reference job_hire_manager

hire_manager	0..*	job
id	<->	hire_manager_id

3.6. Reference job_skill

skill	0..*	job
id	<->	main_skill_id

3.7. Reference job_payment_type

payment_type	0..*	job
id	<->	payment_type_id

3.8. Reference other_skills_job

job	0..*	other_skills
id	<->	job_id

3.9. Reference other_skills_skill

skill	0..*	other_skills
id	<->	skill_id

3.10. Reference proposal_job

job	0..*	proposal
id	<->	job_id

3.11. Reference proposal_freelancer

freelancer	0..*	proposal
id	<->	freelancer_id

3.12. Reference proposal_payment_type

payment_type	0..*	proposal
id	<->	payment_type_id

3.13. Reference proposal_proposal_status_catalog

proposal_status_catalog	0..*	proposal
id	<->	current_proposal_status

3.14. Reference message_freelancer

freelancer	0..*	message
id	<->	freelancer_id

3.15. Reference message_hire_manager

hire_manager	0..*	message
id	<->	hire_manager_id

3.16. Reference message_proposal

proposal	0..*	message
id	<->	proposal_id

3.17. Reference message_proposal_status_catalog

proposal_status_catalog	0..*	message
id	<->	proposal_status_catalog_id

3.18. Reference attachment_message

message	0..*	attachment
id	<->	message_id

3.19. Reference contract_proposal

proposal	0..*	contract
id	<->	proposal_id

3.20. Reference contract_payment_type

payment_type	0..*	contract
id	<->	payment_type_id

3.21. Reference freelancer_verification

verification	1..1	freelancer
id	<->	verification_id

3.22. Reference Experince_freelancer

freelancer	0..*	Experince
id	<->	freelancer_id

3.23. Reference Education_freelancer

freelancer	0..*	Education
id	<->	freelancer_id

3.24. Reference Language_freelancer

freelancer	0..*	Language
id	<->	freelancer_id

3.25. Reference Has_service_Service

Service	0..*	Has_service
id	<->	Service_id

3.26. Reference Has_service_freelancer

freelancer	0..*	Has_service
id	<->	freelancer_id

3.27. Reference contract_freelancer

freelancer	0..*	contract
id	<->	freelancer_id

3.28. Reference withdraw_payment_type

payment_type	0..*	withdraw
id	<->	payment_type_id

3.29. Reference withdraw_freelancer

freelancer	0..*	withdraw
id	<->	freelancer_id

3.30. Reference Notifications_hire_manager

hire_manager	0..*	Notifications
id	<->	hire_manager_id

3.31. Reference Notifications_freelancer

freelancer	0..*	Notifications
id	<->	freelancer_id

3.32. Reference Rating_hire_manager

hire_manager	0..*	Rating
id	<->	hire_manager_id

3.33. Reference Rating_freelancer

freelancer	0..*	Rating
id	<->	freelancer_id

3.34. Reference job_verification

verification	1..1	job
id	<->	verification_id

4. Areas

4.1. Job posting subject area

4.1.1. Tables

- job
- other_skills

4.1.2. References

- freelancer_user_account
- hire_manager_user_account
- has_skill_freelancer
- has_skill_skill
- job_hire_manager
- job_skill
- job_payment_type
- other_skills_job
- other_skills_skill
- proposal_job
- proposal_freelancer
- proposal_payment_type
- proposal_proposal_status_catalog
- message_freelancer
- message_hire_manager
- message_proposal
- message_proposal_status_catalog
- attachment_message
- contract_proposal
- contract_payment_type
- freelancer_verification
- Experince_freelancer
- Education_freelancer
- Language_freelancer
- Has_service_Service
- Has_service_freelancer
- contract_freelancer
- withdraw_payment_type
- withdraw_freelancer
- Notifications_hire_manager
- Notifications_freelancer

- Rating_hire_manager
- Rating_freelancer
- job_verification

4.2. Proposal and Contract subject area

4.2.1. Tables

- proposal
- proposal_status_catalog
- message
- attachment
- contract
- freelancer

4.2.2. References

- freelancer_user_account
- hire_manager_user_account
- has_skill_freelancer
- has_skill_skill
- job_hire_manager
- job_skill
- job_payment_type
- other_skills_job
- other_skills_skill
- proposal_job
- proposal_freelancer
- proposal_payment_type
- proposal_proposal_status_catalog
- message_freelancer
- message_hire_manager
- message_proposal
- message_proposal_status_catalog
- attachment_message
- contract_proposal
- contract_payment_type
- freelancer_verification
- Experince_freelancer
- Education_freelancer
- Language_freelancer
- Has_service_Service
- Has_service_freelancer

- contract_freelancer
- withdraw_payment_type
- withdraw_freelancer
- Notifications_hire_manager
- Notifications_freelancer
- Rating_hire_manager
- Rating_freelancer
- job_verification

4.3. Freelancer subject area

4.3.1. Tables

- freelancer
- has_skill
- Education
- Experince
- Language
- Has_service
- withdraw

4.3.2. References

- freelancer_user_account
- hire_manager_user_account
- has_skill_freelancer
- has_skill_skill
- job_hire_manager
- job_skill
- job_payment_type
- other_skills_job
- other_skills_skill
- proposal_job
- proposal_freelancer
- proposal_payment_type
- proposal_proposal_status_catalog
- message_freelancer
- message_hire_manager
- message_proposal
- message_proposal_status_catalog
- attachment_message
- contract_proposal
- contract_payment_type

- freelancer_verification
- Experince_freelancer
- Education_freelancer
- Language_freelancer
- Has_service_Service
- Has_service_freelancer
- contract_freelancer
- withdraw_payment_type
- withdraw_freelancer
- Notifications_hire_manager
- Notifications_freelancer
- Rating_hire_manager
- Rating_freelancer
- job_verification

4.4. Client subject area

4.4.1. Tables

- hire_manager

4.4.2. References

- freelancer_user_account
- hire_manager_user_account
- has_skill_freelancer
- has_skill_skill
- job_hire_manager
- job_skill
- job_payment_type
- other_skills_job
- other_skills_skill
- proposal_job
- proposal_freelancer
- proposal_payment_type
- proposal_proposal_status_catalog
- message_freelancer
- message_hire_manager
- message_proposal
- message_proposal_status_catalog
- attachment_message
- contract_proposal
- contract_payment_type

- freelancer_verification
- Experince_freelancer
- Education_freelancer
- Language_freelancer
- Has_service_Service
- Has_service_freelancer
- contract_freelancer
- withdraw_payment_type
- withdraw_freelancer
- Notifications_hire_manager
- Notifications_freelancer
- Rating_hire_manager
- Rating_freelancer
- job_verification