Freelance platform

Database model documentation

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1. Model details

Model name:

    Freelance platform

Version:

    2.3

Database engine:

    PostgreSQL

Description:

2. Tables

2.1. Table freelancers

2.1.1. Columns

Column name	Type	Properties	Description
id	bigserial	PK	
accountId	bigint		
registrationDate	timestamp		
experienceLevelId	int		
city	varchar(255)	null	
tagline	varchar(255)	null	
description	text	null	
phone	varchar(64)	null	

2.1.2. Alternate keys

Key name	Columns	Description
freelancer_ak_1	accountId	

2.2. Table accounts

2.2.1. Columns

Column name	Type	Properties	Description
id	bigserial	PK	
userName	varchar(128)		
password	varchar(32)		
email	varchar(128)		
firstName	varchar(128)	null	
lastName	varchar(128)	null	
avatar	bytea	null	
currentRole	int		

2.2.2. Alternate keys

Key name	Columns	Description
user_accounts_ak_1	userName, email	

2.3. Table hire_managers

2.3.1. Columns

Column name	Type	Properties	Description
id	bigserial	PK	
accountId	bigint		
registrationDate	timestamp		
companyId	bigint	null	

2.3.2. Alternate keys

Key name	Columns	Description
hire_manager_ak_1	accountId	

2.4. Table skills

Description:

list of all skills - used to describe freelancers and jobs

2.4.1. Columns

Column name	Type	Properties	Description
id	serial	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	serial	PK	
freelancer_id	bigint		

skill_id	int		

2.5.2. Alternate keys

Key name	Columns	Description
has_skill_ak_1	freelancer_id, skill_id	

2.6. Table jobs

2.6.1. Columns

Column name	Type	Properties	Description
id	bigserial	PK	
hire_manager_id	bigint		
title	varchar(255)		
description	text		
city	varchar(255)	null	
payment_amount	decimal(8,2)		
experience_level_id	int		
speciality_id	int		
job_type_id	int		

2.7. Table job_skills

2.7.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
job_id	bigint		
skill_id	int		

2.7.2. Alternate keys

Key name	Columns	Description
job_skills_ak_1	job_id, skill_id	

2.8. Table proposals

2.8.1. Columns

Column name	Type	Properties	Description
id	bigserial	PK	
job_id	bigint		
freelancer_id	bigint		
proposal_time	timestamp		
payment_amount	decimal(8,2)		
current_proposal _status	int		
client_grade	int	null	
client_comment	text	null	
freelancer_grade	int	null	
freelancer_comme nt	text	null	

2.9. Table proposal_status_catalog

Description:

proposal sent, negotiation phase, proposal withdrawn, proposal rejected/accepted, job started, job finished (successfully), job finished (unsuccessfully)

2.9.1. Columns

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

2.9.2. Alternate keys

Key name	Columns	Description
proposal_status_catalo g_ak_1	status_name	

2.10. Table messages

Description:

sender is either freelancer, either hire manager

2.10.1. Columns

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

2.11. Table companies

2.11.1. Columns

Column name	Type	Properties	Description
id	bigserial	PK	
name	varchar(128)		
site	varchar(128)	null	
tagline	varchar(128)	null	
description	text	null	
city	varchar(128)	null	
phone	varchar(64)	null	
avatar	bytea	null	

2.12. Table contracts

2.12.1. Columns

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

2.13. Table categories

2.13.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
name	varchar(128)		

2.13.2. Alternate keys

Key name	Columns	Description
categories_ak_1	name	

2.14. Table experienceLevels

2.14.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
name	varchar(128)		

2.14.2. Alternate keys

Key name	Columns	Description
experienceLevels_ak_1	name	

2.15. Table has_speciality

2.15.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
freelancer_id	bigint		
speciality_id	int		

2.15.2. Alternate keys

Key name	Columns	Description
has_category_ak_1	freelancer_id, speciality_id	

2.16. Table portfolios

2.16.1. Columns

Column name	Type	Properties	Description
id	bigserial	PK	
freelancer_id	bigint		
project_title	varchar(255)		
completion_date	date		
project_file	bytea	null	
project_description	text	null	
project_url	varchar(255)	null	

2.16.2. Alternate keys

Key name	Columns	Description
portfolios_ak_1	freelancer_id	

2.17. Table specialities

2.17.1. Columns

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

2.17.2. Alternate keys

Key name	Columns	Description
specialities_ak_1	name, category_id	

2.18. Table job_types

2.18.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
name	varchar(128)		

2.18.2. Alternate keys

Key name	Columns	Description
job_types_ak_1	name	

3. References

3.1. Reference freelancer_user_account

accounts	1..1	freelancers
id	<->	accountId

3.2. Reference hire_manager_user_account

accounts	1..1	hire_managers
id	<->	accountId

3.3. Reference has_skill_freelancer

freelancers	0..*	has_skill
id	<->	freelancer_id

3.4. Reference has_skill_skill

skills	0..*	has_skill
id	<->	skill_id

3.5. Reference job_hire_manager

hire_managers	0..*	jobs
id	<->	hire_manager_id

3.6. Reference other_skills_job

jobs	0..*	job_skills
id	<->	job_id

3.7. Reference other_skills_skill

skills	0..*	job_skills
id	<->	skill_id

3.8. Reference proposal_job

jobs	0..*	proposals
id	<->	job_id

3.9. Reference proposal_freelancer

freelancers	0..*	proposals
id	<->	freelancer_id

3.10. Reference proposal_proposal_status_catalog

proposal_status_catalog	0..*	proposals
id	<->	current_proposal_status

3.11. Reference message_freelancer

freelancers	0..*	messages
id	<->	freelancer_id

3.12. Reference message_hire_manager

hire_managers	0..*	messages
id	<->	hire_manager_id

3.13. Reference message_proposal

proposals	0..*	messages
id	<->	proposal_id

3.14. Reference message_proposal_status_catalog

proposal_status_catalog	0..*	messages
id	<->	proposal_status_catalog_id

3.15. Reference contract_proposal

proposals	0..*	contracts
id	<->	proposal_id

3.16. Reference contract_freelancer

freelancers	0..*	contracts
id	<->	freelancer_id

3.17. Reference contract_company

companies	0..*	contracts
id	<->	company_id

3.18. Reference hire_manager_company

companies	0..*	hire_managers
id	<->	companyId

3.19. Reference has_category_freelancer

freelancers	0..*	has_speciality
id	<->	freelancer_id

3.20. Reference freelancer_experienceLevels

experienceLevels	0..*	freelancers
id	<->	experienceLevelId

3.21. Reference portfolios_freelancer

freelancers	0..*	portfolios
id	<->	freelancer_id

3.22. Reference specialities_categories

categories	0..*	specialities
id	<->	category_id

3.23. Reference has_category_specialities

specialities	0..*	has_speciality
id	<->	speciality_id

3.24. Reference job_experienceLevels

experienceLevels	0..*	jobs
id	<->	experience_level_id

3.25. Reference job_specialities

specialities	0..*	jobs
id	<->	speciality_id

3.26. Reference job_job_types

job_types	0..*	jobs
id	<->	job_type_id

4. Areas

4.1. Job posting subject area

4.1.1. Tables

- jobs
- job_skills
- job_types

4.1.2. References

- freelancer_user_account
- hire_manager_user_account
- has_skill_freelancer
- has_skill_skill
- job_hire_manager
- other_skills_job
- other_skills_skill
- proposal_job
- proposal_freelancer
- proposal_proposal_status_catalog
- message_freelancer
- message_hire_manager
- message_proposal
- message_proposal_status_catalog
- contract_proposal
- contract_freelancer
- contract_company
- hire_manager_company
- has_category_freelancer
- freelancer_experienceLevels
- portfolios_freelancer
- specialities_categories
- has_category_specialities
- job_experienceLevels
- job_specialities
- job_job_types

4.2. Proposal and Contract subject area

4.2.1. Tables

- proposals

4.2.2. References

4.3. Freelancer subject area

4.3.1. Tables

4.3.2. References

- freelancer_user_account
- hire_manager_user_account
- has_skill_freelancer
- has_skill_skill
- job_hire_manager
- other_skills_job
- other_skills_skill
- proposal_job
- proposal_freelancer
- proposal_proposal_status_catalog
- message_freelancer
- message_hire_manager
- message_proposal
- message_proposal_status_catalog
- contract_proposal
- contract_freelancer
- contract_company
- hire_manager_company
- has_category_freelancer
- freelancer_experienceLevels
- portfolios_freelancer
- specialities_categories
- has_category_specialities
- job_experienceLevels
- job_specialities
- job_job_types

4.4. Client subject area

4.4.1. Tables

- hire_managers
- companies

4.4.2. References

- freelancer_user_account
- hire_manager_user_account
- has_skill_freelancer
- has_skill_skill
- job_hire_manager
- other_skills_job

- other_skills_skill
- proposal_job
- proposal_freelancer
- proposal_proposal_status_catalog
- message_freelancer
- message_hire_manager
- message_proposal
- message_proposal_status_catalog
- contract_proposal
- contract_freelancer
- contract_company
- hire_manager_company
- has_category_freelancer
- freelancer_experienceLevels
- portfolios_freelancer
- specialities_categories
- has_category_specialities
- job_experienceLevels
- job_specialities
- job_job_types