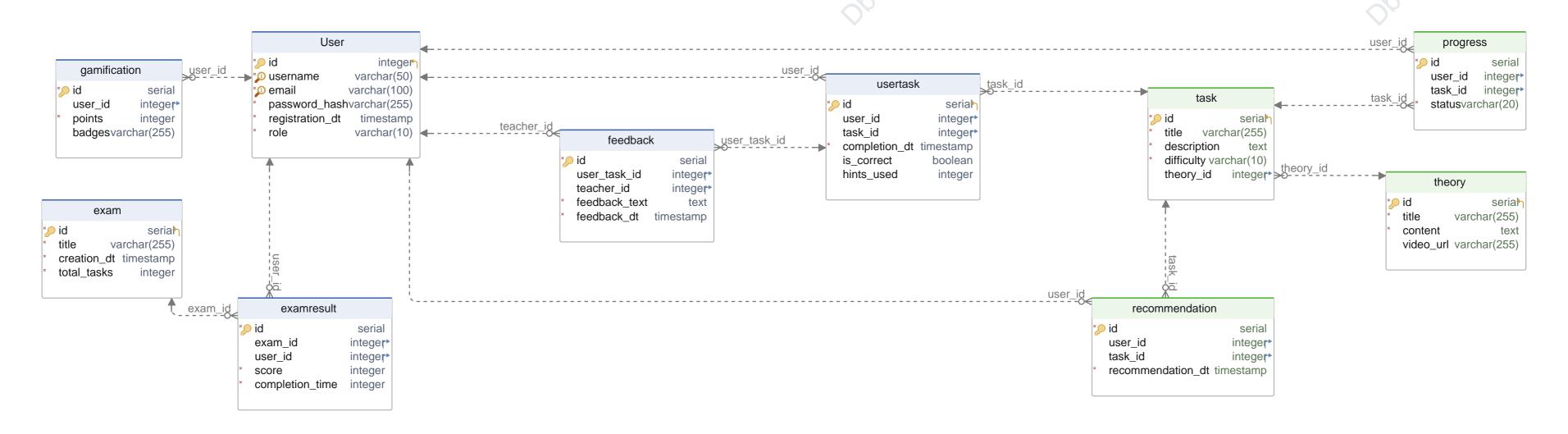
~Layout with Sample Tools



~Layout with Sample Tools

Table	Table User		
ldx	Name	Data Type	
* Pk	id	integer DEFAULT nextval(""User_id_seq"'::regclass)	
* Unq	username	varchar(50)	
* Unq	email	varchar(100)	
*	password_hash	varchar(255)	
*	registration_dt	timestamp	
*	role	varchar(10)	
Indexes			
Type	Name	On	
Pk	User_pkey	id	
Unq	User_username_key	username	
Unq	User_email_key	email	
Constraints			
	Name	Definition	
	User_role_check	((role)::text = ANY ((ARRAY['student'::character varying, 'teacher'::character varying, 'admin'::character varying])::text[]))	

Table exam		
ldx	Name	Data Type
* Pk	id	serial
*	title	varchar(255)
*	creation_dt	timestamp
*	total_tasks	integer
Indexes		
Туре	Name	On
Pk	exam_pkey	id

Table	Table examresult		
ldx	Name	Data Type	
* Pk	id	serial	
	exam_id	integer	
	user_id	integer	
*	score	integer	
*	completion_time	integer	
Indexes	3		
Туре	Name	On	
Pk	examresult_pkey	id	
Foreign Keys			
Туре	Name	On	
	examresult_exam_id_fkey (exam_id) ref exam (id)		
	examresult_user_id_fkey (user_id) ref User (id)		

Table feedback		
ldx	Name	Data Type
* Pk	id	serial
	user_task_id	integer

Table feedback		
	teacher_id	integer
*	feedback_text	text
*	feedback_dt	timestamp
Indexes		
Type	Name	On
Pk	feedback_pkey	id
Foreign	Keys	
Type	Name	On
	feedback_user_task_id_fkey (user_task_id) ref usertask (id)
	feedback_teacher_id_fkey (teacher_id) ref User (id)	

Table gamification		
ldx	Name	Data Type
* Pk	id	serial
	user_id	integer
*	points	integer
	badges	varchar(255)
Indexes		
Туре	Name	On
Pk	gamification_pkey	id
Foreign	Keys	
Туре	Name	On
	gamification_user_id_fkey (user_id) ref User (id)	

Table	progress	
ldx	Name	Data Type
* Pk	id	serial
	user_id	integer
	task_id	integer
*	status	varchar(20)
Indexe	3	
Type	Name	On
Pk	progress_pkey	id
Foreigr	n Keys	
Type	Name	On
	progress_user_id_fkey (user_id) ref User (id)	
	progress_task_id_fkey (task_id) ref task (id)	
Constra	aints	
	Name	Definition
	progress_status_check	((status)::text = ANY ((ARRAY['not_started'::character varying, 'in_progress'::character varying, 'completed'::character varying])::text[]))

Table	Table recommendation	
ldx	Name	Data Type
* Pk	id	serial
	user_id	integer
	task_id	integer
*	recommendation_dt	timestamp

Table	Table recommendation		
Indexes	Indexes		
Туре	Name	On	
Pk	recommendation_pkey	id	
Foreign	Foreign Keys		
Туре	Name	On	
	recommendation_user_id_fkey (user_id) ref User (id)		
	recommendation_task_id_fkey (task_id) ref task (id)		

Table	Table task		
ldx	Name	Data Type	
* Pk	id	serial	
*	title	varchar(255)	
*	description	text	
*	difficulty	varchar(10)	
	theory_id	integer	
Indexes	3		
Туре	Name	On	
Pk	task_pkey	id	
Foreign	n Keys		
Type	Name	On	
	task_theory_id_fkey (theory_id) ref theory (id)		
Constra	aints		
	Name	Definition	
	task_difficulty_check	((difficulty)::text = ANY ((ARRAY['easy'::character varying, 'medium'::character varying, 'hard'::character varying])::text[]))	

Table	Table theory		
ldx	Name	Data Type	
* Pk	id	serial	
*	title	varchar(255)	
*	content	text	
	video_url	varchar(255)	
Indexes	3		
Type	Name	On	
Pk	theory_pkey	id	

Table usertask		
ldx	Name	Data Type
* Pk	id	serial
	user_id	integer
	task_id	integer
*	completion_dt	timestamp
	is_correct	boolean
	hints_used	integer
Indexes		
Type	Name	On
Pk	usertask_pkey	id

Foreign Keys

Table usertask

Type Name On usertask_user_id_fkey (user_id) ref User (id)

usertask_user_id_rkey (user_id) ref task (id) usertask_task_id_fkey (task_id) ref task (id)