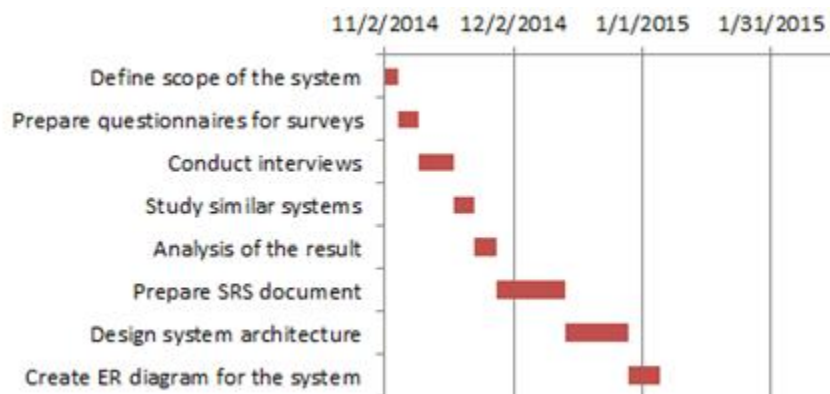


Original project plan and Gantt chart up to interim report submission

Tasks	Start Date	Duration (Days)	End Date
Define scope of the system	11/2/2014	3	11/4/2014
Prepare questionnaires for surveys	11/5/2014	5	11/9/2014
Conduct interviews	11/10/2014	8	11/17/2014
Study similar systems	11/18/2014	5	11/22/2014
Analysis of the result	11/23/2014	5	11/27/2014
Prepare SRS document	11/28/2014	16	12/13/2014
Design system architecture	12/14/2014	15	12/28/2014
Create ER diagram for the system	12/29/2014	7	1/4/2015

Table showing various tasks, start date and end date of the old project plan



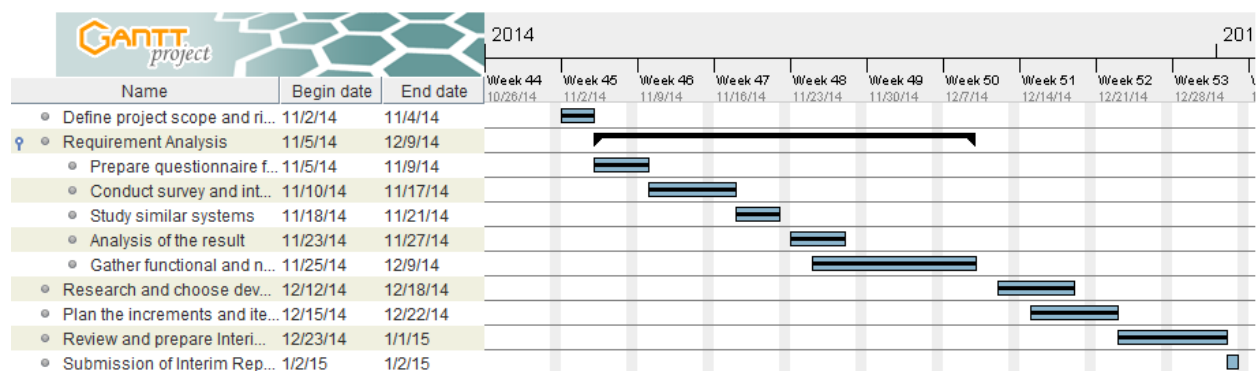
Gantt chart for the original project plan

Actual project plan and Gantt chart up to interim report submission

Work Package	Activity	Begin date	End date	Duration (days)
Project initiation	Define project scope and risks	11/2/2014	11/4/2014	3
Requirement	Prepare questionnaire for survey	11/5/2014	11/9/2014	4
	Conduct survey and interviews	11/10/2014	11/17/2014	7

Analysis	Study similar systems	11/18/2014	11/21/2014	4
	Analysis of the result	11/23/2014	11/27/2014	5
	Gather functional and non-functional requirements	11/25/2014	12/9/2014	13
	Research and choose development methodology	12/12/2014	12/18/2014	6
	Plan the increments and iterations	12/15/2014	12/22/2014	7
	Review and prepare Interim Report	12/23/2014	1/1/2015	9
	Submission of Interim Report	1/2/2015	1/2/2015	1

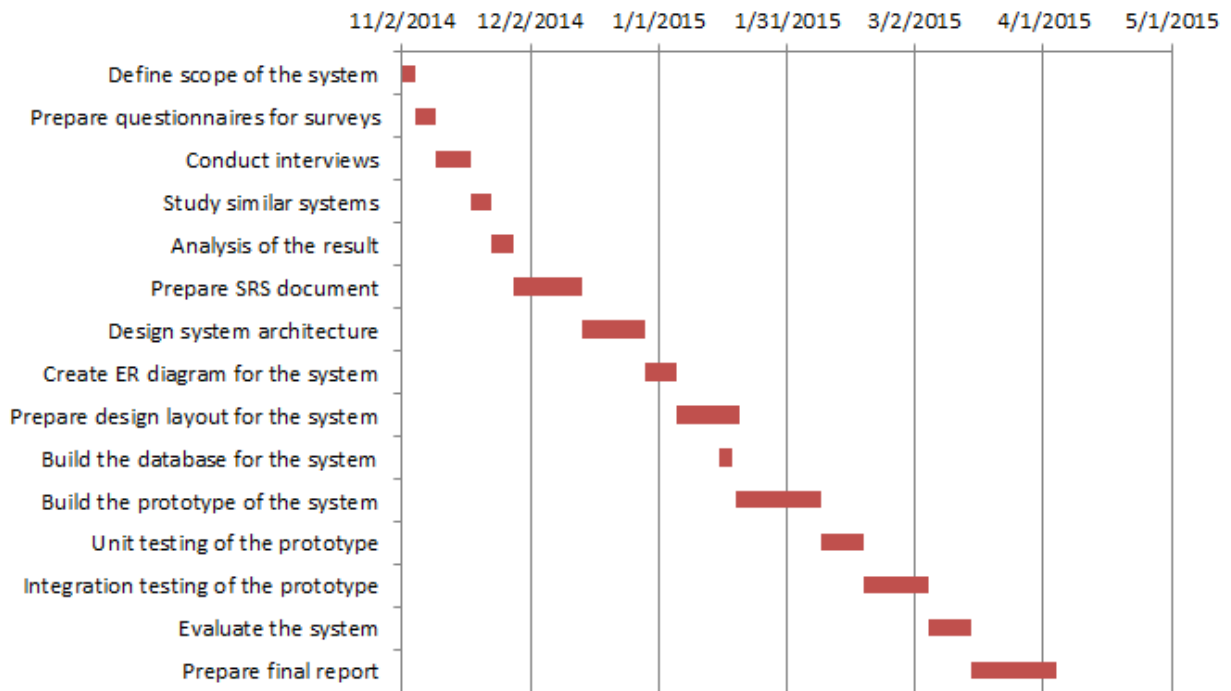
Table showing various activities along with the start date and end date



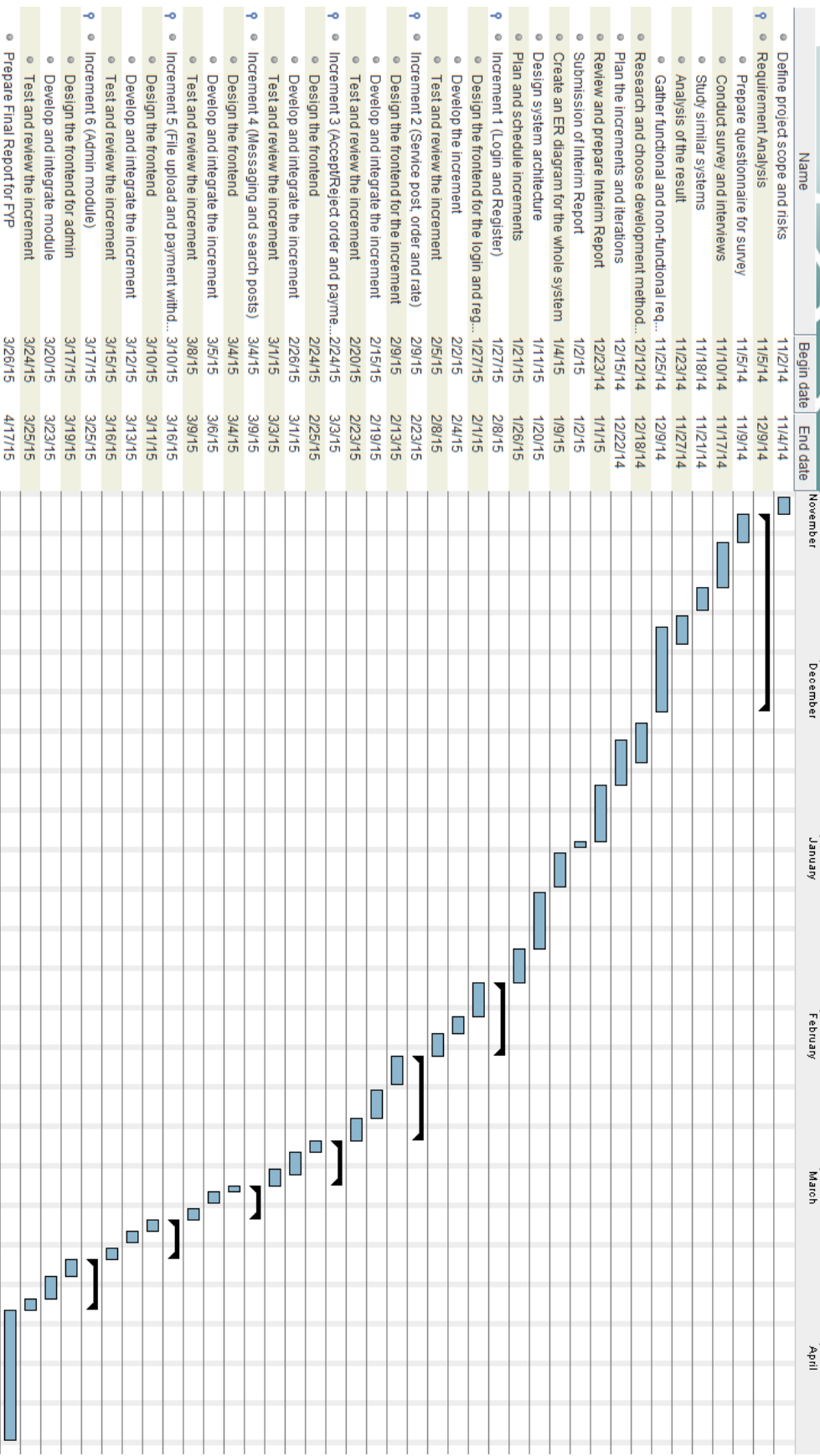
Gantt chart for the actual project plan

Complete project plan and Gantt chart for the FYP

(Initial)



Revised Gantt chart



Entity Relationship Diagram

Unnormalized form

USERS (user_id, fname, lname, gender, dob, display_name, address, about, profilePic, password, created_at, active, authKey, email, verified, accessToken, {{{ post_id, title, description, view_count, {rating, user_id, datetimestamp}, price, currency, image_url, expiry_date, featured, datetimestamp, max_active_order, max_delivery_days, active, slug, {{order_id, orderd_by, details, status, datetimestamp, type, rejected_reason, rejected_date, accepted_date, status, payment, delivery_date, complete_request, complete_request_date, cancel_request, cancel_request_date, closed_date, transaction_id, post_price, currency, amount, payment_status, payer_email, datetimestamp, error_log, withdraw_id, user_id, request_date, complete, datetimestamp}}, status_id, user_id, status, datetimestamp, file_url}}, category_id, category_name, created_date }},{report_id, reported_by, report, datetimestamp, active}, {message_id, subject, message, thread_id, datetimestamp, read_m, status, from_id},{comment_id, comment, rating, datetimestamp, active, comment_by}, {notification_id, notification, datetimestamp, read, source, type, status, post_id}))

1NF

users (user_id, fname, lname, gender, dob, display_name, address, about, profilePic, password, created_at, active, authKey, email, verified, accessToken)

post_categories (category_id, category_name, created_date, admin_id*)

post_services (post_id, user_id*, category_id*, title, description, view_count, price, currency, image_url, expiry_date, featured, datetimestamp, max_active_order, max_delivery_days, active, slug)

post_ratings (post_id, user_id, rating, datetimestamp)

post_order (order_id, post_id*, ordered_by*, details, status, datetimestamp, type, rejected_reason, rejected_date, accepted_date, status, payment, delivery_date, complete_request, complete_request_date, cancel_request, cancel_request_date, closed_date, transaction_id, post_price, currency, amount, payment_status, payer_email, datetimestamp, error_log, withdraw_id, user_id*, request_date, complete, datetimestamp)

task_status (status_id, user_id*, order_id*, status, datetimestamp, file_url)

messages (message_id, subject, message, from_id, thread_id, datetimestamp, read_m, status, user_id*)

user_comments (comment_id, comment_by, comment, rating, datetimestamp, active, user_id*)

notifications (notification_id, notification, datetimestamp, read, source*, type, status, post_id, user_id*)

flag_reports (report_id, reported_by*, user_id*, report, datetimestamp, active)

There is no partial functional dependencies. Thus, it is also in 2NF.

2NF

users (user_id, fname, lname, gender, dob, display_name, address, about, profilePic, password, created_at, active, authKey, email, verified, accessToken)

post_categories (category_id, category_name, created_date, admin_id*)

post_services (post_id, user_id*, category_id*, title, description, view_count, price, currency, image_url, expiry_date, featured, datetimestamp, max_active_order, max_delivery_days, active, slug)

post_ratings (post_id, user_id, rating, datetimestamp)

post_order (order_id, post_id*, ordered_by*, details, status, datetimestamp, type, rejected_reason, rejected_date, accepted_date, status, payment, delivery_date, complete_request, complete_request_date, cancel_request, cancel_request_date, closed_date, transaction_id, post_price, currency, amount, payment_status, payer_email, datetimestamp, error_log, withdraw_id, user_id*, request_date, complete, datetimestamp)

task_status (status_id, user_id*, order_id*, status, datetimestamp, file_url)

messages (message_id, subject, message, from_id, thread_id, datetimestamp, read_m, status, user_id*)

user_comments (comment_id, comment_by, comment, rating, datetimestamp, active, user_id*)

notifications (notification_id, notification, datetimestamp, read, source*, type, status, post_id, user_id*)

flag_reports (report_id, reported_by*, user_id*, report, timestamp, active)

3NF

Transitive Dependencies

post_orders

transaction_id -> post_price, currency, amount, payment_status, payer_email, timestamp, error_log

withdraw_id -> transaction_id, user_id, request_date, complete, timestamp

users (user_id, fname, lname, gender, dob, display_name, address, about, profilePic, password, created_at, active, authKey, email, verified, accessToken)

post_categories (category_id, category_name, created_date, admin_id*)

post_services (post_id, user_id*, category_id*, title, description, view_count, price, currency, image_url, expiry_date, featured, timestamp, max_active_order, max_delivery_days, active, slug)

post_ratings (post_id, user_id, rating, timestamp)

post_orders (order_id, post_id*, ordered_by*, details, status, timestamp, type, rejected_reason, rejected_date, accepted_date, status, payment, delivery_date, complete_request, complete_request_date, cancel_request, cancel_request_date, closed_date)

task_status (status_id, user_id*, order_id*, status, timestamp, file_url)

messages (message_id, subject, message, from_id, thread_id, timestamp, read_m, status, user_id*)

user_comments (comment_id, comment_by, comment, rating, timestamp, active, user_id*)

notifications (notification_id, notification, timestamp, read, source*, type, status, post_id, user_id*)

flag_reports (report_id, reported_by*, user_id*, report, timestamp, active)

transaction (transaction_id, order_id*, post_price, currency, amount, payment_status, payer_email, datetimestamp, error_log)

transaction_withdraw (withdraw_id, transaction_id*, user_id*, request_date, complete, datetimestamp)

Separating child entities from parent entities,

post_services -> post_views

post_order -> accepted_orders, rejected_orders

users -> admin

task_status -> task_files

FINAL SET OF NORMALIZED TABLES

users (user_id, fname, lname, gender, dob, display_name, address, about, profilePic, password, created_at, active, authKey, email, verified, accessToken)

admin (user_id)

post_categories (category_id, category_name, created_date, admin_id*)

post_services (post_id, user_id*, category_id*, title, description, price, currency, image_url, expiry_date, featured, datetimestamp, max_active_order, max_delivery_days, active, slug)

post_views (post_id, view_count)

post_ratings (post_id, user_id, rating, datetimestamp)

post_orders (order_id, post_id*, ordered_by*, details, status, datetimestamp, type)

accepted_orders (order_id, accepted_date, status, payment, delivery_date, complete_request, complete_request_date, cancel_request, cancel_request_date, closed_date)

rejected_orders (order_id, rejected_reason, rejected_date)

task_status (status_id, user_id*, order_id*, status, datetimestamp, file_url)

task_files (status_id, file_url)

messages (message_id, subject, message, from_id, thread_id, datetimestamp, read_m, status, user_id*)

user_comments (comment_id, comment_by, comment, rating, datetimestamp, active, user_id*)

notifications (notification_id, notification, datetimestamp, read, source*, type, status, post_id, user_id*)

flag_reports (report_id, reported_by*, user_id*, report, datetimestamp, active)

transaction (transaction_id, order_id*, post_price, currency, amount, payment_status, payer_email, datetimestamp, error_log)

transaction_withdraw (withdraw_id, transaction_id*, user_id*, request_date, complete, datetimestamp)

Entity Relationship Diagram

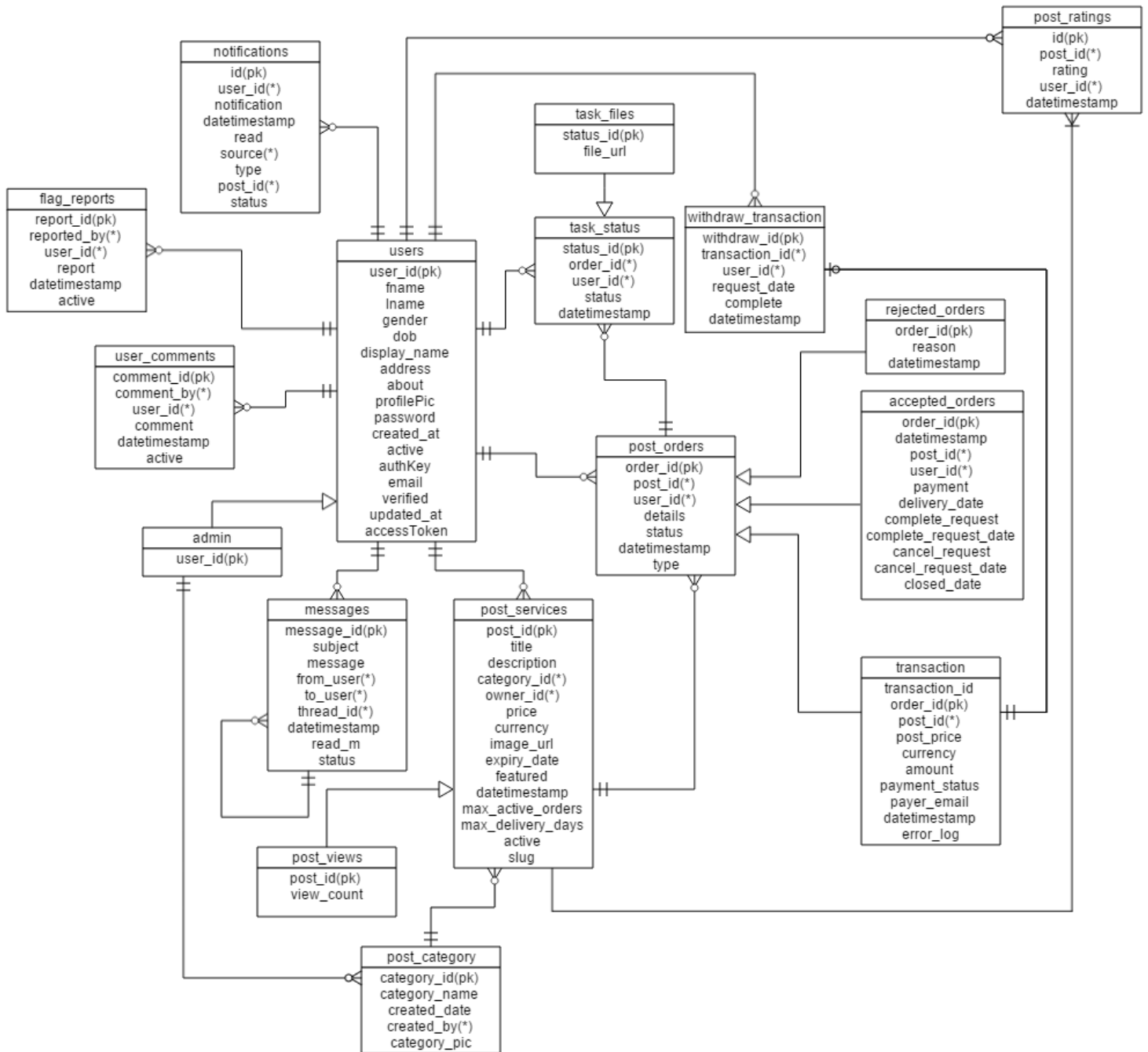


Fig: Entity relationship diagram showing various entities, attributes and relationship