# How notification works

## System notifications

* User receive a message from another user.
* User receive a medal.
* User gain permission due to reputation increments (also new title).
* User is subscribed by someone. *(group notifications if too much entry)*

## User subscription:

When user A subscribe user B, according to user A’s settings, user A will receive a notification when:

* User B post new [Problem](#_Problem).
* User B post new [Blog](#_Blog).
* User B start new [Discussion](#_Discussion).
* User B share a [MainPost](#_MainPost).

## [Topic](#_Topic) subscription:

* An author post a blog to the [Topic](#_Topic)

## Self-posts subscription

* Someone post a [Reply](#_Reply) in user posted [Problem](#_Problem)
* Someone post a [Reply](#_Reply) in user posted [Blog](#_Blog)
* Someone post a [Reply](#_Reply) in user posted [Discussion](#_Discussion)
* Someone post a [Comment](#_Comment) in user posted [Reply](#_Reply)
* Someone vote up/down a [Post](#_Post) *(group notifications if too much entry)*

## Following MainPost notification

* Someone post a [Reply](#_Reply) in user following [MainPost](#_MainPost)

## Problem Inviting

* When user is invited to solve a problem by someone.

# Define Trending Posts

1. Definition:

// just draft

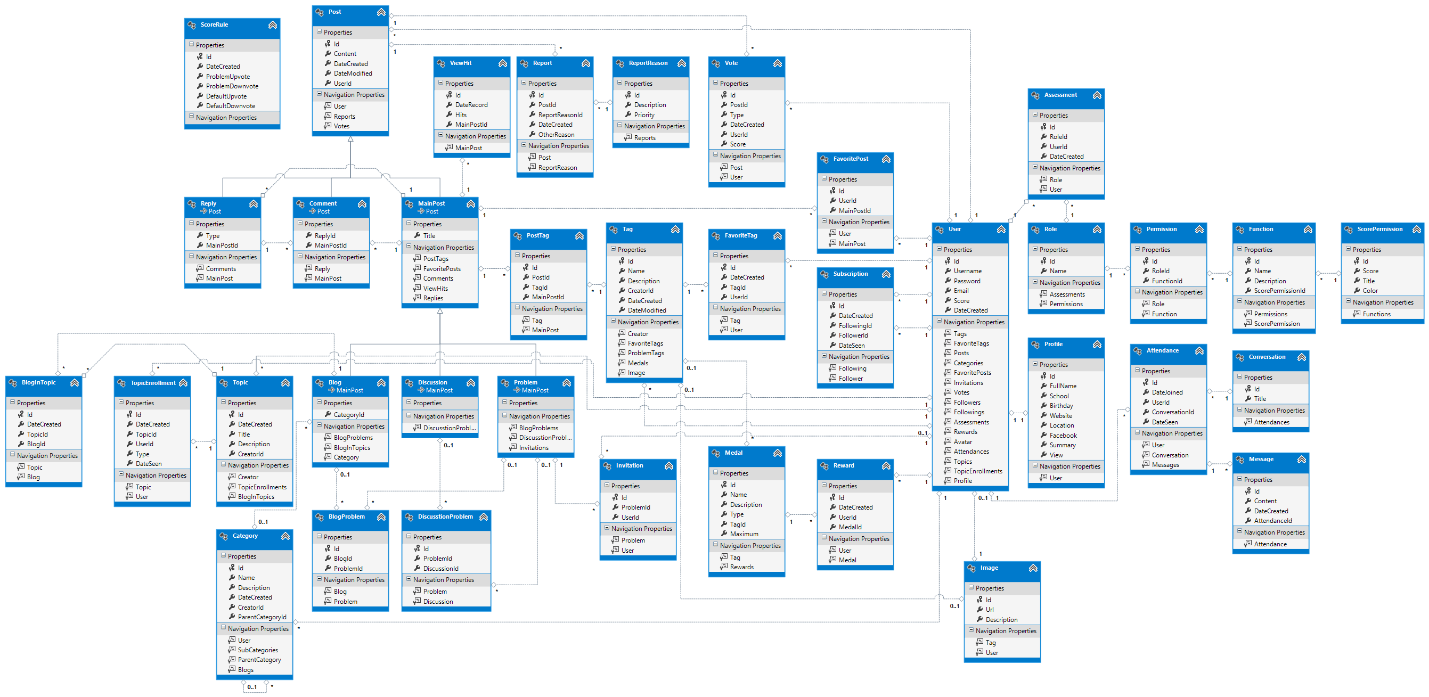
Top post of geometry, combinatorics, … (views ? upvote ? answer ?)

Hardest problem of geometry, number theories …

Most recent valuable question (upvote ? replies ? …)

# Diagrams

## Class Diagram



# Definitions, Acronyms and Abbreviations

## Post

## MainPost

## Problem

## Blog

## Discussion

## Topic

## Reply

## Comment