Database Design

# Department

* id
* *parent\_department\_id*
* name
* description
* remark

# Position

* id
* name
* description
* quantity\_needed
* remark

# Role

* id
* role\_name
* role\_description
* quantity\_needed
* remark

# Permission

* id
* action
* can\_read
* can\_create
* can\_edit
* can\_delete

# PermissionUser (to be assigned to specific users)

* permission\_id
* user\_id

# WorkExperience

* id
* *user\_id*
* company\_name
* start\_date
* end\_date (default null meaning current bureau)
* department
* position
* role

# EducationStatus

* id
* *user\_id*
* education\_level
* field\_of\_study
* school\_name
* start\_date
* end\_date (default null meaning current school)

# Address

* id
* region
* zone
* woreda
* city
* sub\_city
* kebele
* block\_no
* house\_no

# ContactPerson (??? A contact person)

* id
* *user\_id*
* *address\_id*
* personal\_name
* father\_name
* grand\_father\_name
* sex
* phone\_number
* employer\_company
* type (emergency contact, voucher)

# FamilyStatus

* id
* *user\_id*
* status ( married/ single/ divorced/ widowed )
* partner\_name (default null)

# Child

* id
* *family\_status\_id*
* name
* sex
* birth\_date

# User (Account)

* id
* *role\_id*
* *department\_id ??*
* *position\_id ??*
* *address\_id*
* personal\_name
* father\_name
* grand\_father\_name
* email
* password
* phone\_number
* sex
* birth\_date
* employment\_date
* pension\_id\_number

# SystemLog

* id
* *actor\_id*
* *loggable\_id*
* *loggable\_type*
* action\_type (an enum of actions)
* remark

# Files

* id
* *fileable\_id*
* *fileable\_type*
* file\_name
* file\_url
* file\_type(id scan, profile picture, company document, certificate, notice document …)

# PrivateMessage

* id
* *sender\_id*
* *receiver\_id*
* subject
* content
* is\_important
* parent\_message\_id(the original message id if this is a forwarded message)

# Notice (also serves for Reminder)

* id
* *poster\_id*
* title
* description
* target\_date (default null)
* remind\_before (default null)

# NoticeUser (target users)

* *notice\_id*
* *user\_id*

# Forum

* id
* *?? creator\_id(maybe)*
* title
* description
* forum\_type

# ForumUser (forum members)

* *forum\_id*
* *user\_id*

# ForumPost

* id
* *forum\_id*
* *sender\_id*
* content
* likes

# ForumComment

* id
* forum\_post\_id
* commenter\_id
* comment

Notification ???

Sub Departments ???