

```

classDiagram
    class users {
        <<id(PK)>>:int
        -email:string
        -firstname:string
        -lastname:string
        -phone:string
        -address:text
        -reviewboard:boolean
        -avatar:paperclip
        -wallpaper:paperclip
        -iots:paperclip
        -theme_id:int
        -school:int
        -role:int
        -timezone:string
        +all_devise_fields
        +all_paperclip_fields
    }
    class teams {
        <<id>>:integer(PK)
        >>school_id:int
        -owner_id:int
        -name:string
        -description:text
        -coreteam:boolean
        -private:boolean
    }
    class notes {
        <<id(PK)>>:int
        >>user_id:int
        -bio:text
        -reminder:text
        -public:text
    }
    class preferences {
        <<id(PK)>>:int
        >>user_id:int
        -theme:int
        -bgcolor:string
        -rows:int
        -wallpaper:boolean
    }
    class themes {
        <<id(PK)>>:int
        -name:string
        -filename:string
        -wallpaper:boolean
    }
    class colors {
        <<id(PK)>>:int
        -color:string
        -name:string
    }
    class participants {
        <<id(PK)>>:int
        >>user_id:int
        >>role_id:int
        >>school_id:int
        >>lanuguage_id:int
        -prereq:boolean
        -accepted:int
        has_many_through users -> participants -> schools
    }
    class participant_roles {
        <<id(PK)>>:int
        -rolename:text
        --RolesAvailable
        ----1=leader
        ----2=assistant
        ----3=staff
        ----4=student
    }
    class messages {
        <<id>>:integer(PK)
        >>parent_id:integer
        --sender_id:integer
        --recipient_id:integer
        --school_id:integer
        --team_id:integer
        -sender_read:boolean
        -recipient_read:boolean
        -subject:string
        -body:text
    }
    class message_hierarchies {
        <<id(PK)>>:int
        >>ancestor_id:int
        >>descendant_id:int
        >>generations:int
    }
    teams "1" -- "many" users : HABTM
    teams "1" -- "many" participant_roles
    participants "1" -- "many" participant_roles
    messages "1" -- "many" message_hierarchies
  
```

Personnel

users

«id(PK):int

-email:string
-firstname:string
-lastname:string
-phone:string
-address:text
-reviewboard:boolean
-avatar:paperclip
-wallpaper:paperclip
-iots:paperclip
-theme_id:int
-school:int
-role:int
-timezone:string

- +all_devise_fields
- +all_paperclip_fields

teams_users

=====

»user_id:int
team_id:int«

=====

Join Table - HABTM

teams

«id:integer(PK)
»school_id:int

-owner_id:int
-name:string
-description:text
-coreteam:boolean
-private:boolean

Teams HABTM Users

user_admins

«id(PK):int
»user_id:int

-level:int

1 = Contributor
2 = Admin
3 = SuperAdmin

participants

«id(PK):int
»user_id:int
»role_id:int
»school_id:int
»lanuguage_id:int

-prereq:boolean
-accepted:int

has_many_through
users ->
participants->
schools

participant_roles

«id(PK):int
-rolename:text

--RolesAvailable
----1=leader
----2=assistant
----3=staff
----4=student

Reference table only
No interface

notes

«id(PK):int
»user_id:int

-bio:text
-reminder:text
-public:text

preferences

«id(PK):int
»user_id:int

-theme:int
-bgcolor:string
-rows:int
-wallpaper:boolean

themes

«id(PK):int
-name:string
-filename:string
-wallpaper:boolean

Reference Table
No Interface

colors

«id(PK):int
-color:string
-name:string

Reference Table
No Interface

message_hierarchies

«id(PK):int
»ancestor_id:int
»descendant_id:int
»generations:int

Self Join Table

messages

«id: integer(PK)
»parent_id:integer

--sender_id:integer
--recipient_id:integer
--school_id:integer
--team_id:integer

-sender_read:boolean
-recipient_read:boolean
-subject:string
-body:text

FK's self referencing

Last Updated:
06/08/2013

All tables Include:
Rails fields

Access Key
= User(pr5)
<= student(pr4)
<= staff(pr3)
<= Assistant(pr2)
<= Leader(pr1)
>= Contributor(UA1)
>= Admin(UA2)
= SuperAdmin(UA3)
No Interface

messages
«id: integer(PK) »parent_id:integer
--sender_id:integer --recipient_id:integer --school_id:integer --team_id:integer
-sender_read:boolean -recipient_read:boolean
-subject:string -body:text
<i>FK's self referencing</i>

message_hierarchies
«id(PK):int
» ancestor_id:int
» descendant_id:int
» generations:int
<i>Self Join Table</i>

schools
«id(PK):int
»version_id:int
»language_id:int
-owner_id:int
-name:text
-location:text
-prereqs:text
-start_date:datetime
-end_date:datetime
-mailing_address:text
-tagline:text
-description:text
-private:boolean
-active:boolean
-timezone:string
-logo:paperclip
-header:paperclip
-featured:paperclip
-caption:string
-color:string

orders
«id(PK):int
»user_id:int
-name:string
-subject:string
-location:text
-description:text
-enrollment:integer
-start_date:datetime
-end_date:datetime
Admin Fields
-price:float
-billed:boolean
-paid:booleanmm
-approved:boolean
-school_id:integer

assignments
«id(PK):int
»school_id:int
»book_id:int
»scoresheet_id:int
-position:int
-name:text
-weight:int
-module:int
-resources:text
-instructions:text

duedates
«id(PK):int
»school_id:int
»team_id:int
»assignment_id:int
-duedate:datetime

```

tasks
«id(PK):int
»assignment_id:int
»templat_id:int

-name:text
-percent:float
-help:textlong
-task_type:integer
-position:integer

task_types
---1=Document
---2=Discussion
---3=Charting
---4=Off-Line

```

templats
«id(PK):int
»school_id:int
-name:string
-content:text
-public:boolean
<i>loads with task</i>
<i>*purposely misspelled</i>

scoresheets
«id(PK):int
»school_id:int
-name:string
-content:text

books
«id(PK):int
-short_name:text
-name:text
-verse_count:int
-position:int

paragraphs
-«d(PK):int
»book_id:int
»version_id:int
-content:longtext
-position:int
-verse_count:int
-startref:text
-endref:text

versions
«id(PK):int
-name:text

Tables for assignment task data

Writing task data

documents	
«id(PK):int	
»user_id:int	
»school_id:int	
»assignment_id:int	
»task_id:int	
-body:textlong	
-content_type:int	
-staff_note:text	
Freeform writing work	

endnotes	
«id(PK):int	
»document_id:int	
»paper_id:int	
-content:text	
-content_type:int	
belongs_to answers and papers	

Discussion task data

comments	
«id(PK):int	
»task_id:int	
»parent_id:int	
»user_id:int	
-content:text	
-comments_count:int	

comment hierarchies	
«id(PK):int	
»ancestor_id:int	
»descendant_id:int	
»generations:int	
Self Join Table	

Charting task data

- «id(PK):int
- »parent_id:int
- »user_id:int
- »school_id:int
- »assignment_id:int
- »task_id:int
- »paragraph_id:int
- title_type:int
- position:int
- title:string
- verse_count:int
- staff_note:text
- Main Title Editing*

charttexts

- «id(PK):int
- »title_id:int
- »user_id:int
- content:textlong
- staff_note:text
- content_type:int
- Outsides of Verticals*

title_hierarchies

- »ancestor_id:int
- »descendant_id:int
- »generations:int
- Self Join Table*

ppoints

- «id(PK):int
- »title_id:int
- »user_id:int
- »observation_id
- position:int
- content:text
- color:string
- staff_note:text
- chart Insides*

observations

- «id(PK):int
- »school_id:int
- position:int
- link:string
- color:string
- code:string
- name:string
- public:boolean
- This table holds links to icons for Observation types*

```
graph TD
    blogs((blogs))
    papers((papers))
    reviews((reviews))
    blogs --> papers
    papers --> reviews
```

Public Data

blogs
id:int(PK)
»user_id:int
-category:string
-topic:string
-excerpt:text
-article:text
-featured:boolean
-leadstory:boolean
-navbar:boolean

Peer Reviewed papers

papers
id:int(PK)
»user_id:int
-title:string
-author:string
-tags:text
-synopsis:text
-body:text
-published:boolean

reviews
«id(PK):int
»paper_id:int
»user_id:int
-content:text
-approved:boolean

Assignment Grading data	
grades	
«id(PK):int	
»school_id:int	
»assignment_id:int	
»user_id:int	
»duedate_id:int	
-staff_id:int	
-grade:int	
-staff_comments:text	
-student_comments:text	
-scratchpad:text	
-viewable:boolean	
-done:boolean	
staffnotes	
«id(PK):int	
»user_id:int	
»assignment_id:int	
-content:text	
-content_type:integer	
<i>Polymorphic associations</i>	
-noteable_id:int	
-noteable_type:text	
-- document.staffnotes	
-- title.staffnotes	
-- ppoint.staffnotes	
-- charttext.staffnotes	
-- comment.staffnotes	

states
«id(PK):int
user_id:int
update:boolean
tracks condition of titles tree to prevent unnecessary processing.

helps
«id(PK):int
-title:string
-content:text
-content_type:int
<i>This is a system help utility</i> <i>Assignment help is added by the school admins</i>