resource_thumbnail
| rid | int |
| thumbnail_link | text |

resource_vote_info
uid	int
rid	int
is_upvote	boolean

resource_view
rid	int
uid	int
created_at	timestamp

resource_comment
resource_comment_id	int
uid	int
created_at	timestamp
rid	int
comment	text

tag
tag_id	int
tag_name	varchar
tag_description	text

resource
rid	int
title	varchar
resource_link	varchar
created_at	timestamp
difficulty	resource_difficulty
subject	subjects
grade	Grade
upvote_count	int
downvote_count	int
is_public	boolean
description	text

resource_tag_record
| tag_id | int |
| rid | int |

user_teaching_areas
uid	int
teaching_area	subjects
grade	Grade
is_public	boolean

resource_comment_reply
resource_comment_id	int
reply	text
created_at	timestamp
uid	int

private_resource_personnel
| rid | int |
| uid | int |

user
uid	int
username	varchar
avatar_link	varchar
created_at	timestamp
password	varchar
user_rating	numeric
email	text
bio	text
authenticated	boolean

rosource_creater
| rid | int |
| uid | int |

post_comment
post_comment_id	int
post_id	int
created_at	timestamp
uid	int
text	text
upvote_count	int
downvote_count	int

channel
cid	int
name	varchar
visibility	Channel_Visibility
admin_uid	int
subject	subjects
grade	Grade
description	text

post_comment_vote_info
post_comment_id	int
uid	int
is_upvote	boolean

channel_personnel
| cid | int |
| uid | int |

channel_tag_record
| tag_id | int |
| cid | int |

user_session
| uid | int |
| last_action_time | datetime |

channel_post
post_id	int
cid	int
title	text
text	text
created_at	datetime
creator	int
upvote_count	int
downvote_count	int

channel_post_vote_info
post_id	int
uid	int
is_upvote	boolean

dbdiagram.io

```
Enum resource_difficulty {
  EASY
  MODERATE
  HARD
  SPECIALIST
}


Enum Grade {
  KINDERGRATEN
  YEAR_1
  YEAR_2
  YEAR_3
  YEAR_4
  YEAR_5
  YEAR_6
  YEAR_7
  YEAR_8
  YEAR_9
  YEAR_10
  YEAR_11
  YEAR_12
}
```

```
Enum subjects {
  ENGLISH
  MATHS_A
  MATHS_B
  MATHS_C
  BIOLOGY
  GEOGRAPHY
  CHEMISTRY
  PHYSICS
  ACCOUNTING
  ECONOMICS
  ANCIENT_HISTORY
  LEGAL_STUDIES
  BUSINESS_STUDIES
  SOCIAL_STUDIES
  DANCE
  DRAMA
  IT
  MUSIC
  DESIGN
  PE
  CHINESE
  SPANISH
  FRENCH
  GERMAN
  JAPANESE
  OTHER
```

```
Enum Channel_Visibility {
  Invite_only
  Fully_private
  Public
}
```