Class name: User

Superclasses: none

Attributes:

-Id: this is an int number that can increase by itself, it is the symbol to recognize the object of user

-Reputation: every question has reputation, if the asker accepts one answer; the owner of that answer will get the reputation for that question.

-CreationDate: the account create date.

-DisplayName: like a nick name that to use to show how to call user in the website.

-LastAccessDate: the date of last time when account login.

-Location: location

-Views: the whole scan times for all question account asked.

-UpVotes: the while up votes for all question and answer which belong to this account.

-DownVotes: the while down votes for all question and answer which belong to this account.

-Age: age

－type: type, only administrator can change this field, 0 means normal user, 999 means administrator, 777 means advancer, administrator have the limitation to give extra limitation to other users.

Method:

+setId(id): to set the field of id;

+getId(): to get the field of id;

+setReputation (Reputation): to set the field of Reputation;

+getReputation (): to get the field of Reputation;

+setCreationDate (CreationDate): to set the field of CreationDate;

+getCreationDate (): to get the field of CreationDate;

+setDisplayName (DisplayName): to set the field of DisplayName;

+getDisplayName (): to get the field of DisplayName;

+setLastAccessDate (LastAccessDate): to set the field of LastAccessDate;

+getLastAccessDate(): to get the field of LastAccessDate;

+setLocation (location): to set the field of Location;

+getLocation(): to get the field of Location;

+setViews (Views): to set the field of Views;

+getViews (): to get the field of Views;

+setUpVotes (UpVotes): to set the field of UpVotes;

+getUpVotes (id): to get the field of UpVotes;

+setDownVotes (DownVotes): to set the field of DownVotes;

+getDownVotes (): to get the field of DownVotes;

+setAge (Age): to set the field of Age;

+getAge (): to get the field of Age;

+setType(Type): to set the field of Type;

+getType (): to get the field of Type;

+checkUserByDisplayName(displayname) to check is there a user’s display name named displayname or not. Return User, if there is not such a user named displaynam, return null.

+checkUserByEmail(email) to check email is already been used or not, return User, if that email are not exist in database, return null.

+checkUser() to check the user is legal or not. Legal will return true else return false. if user do not have any operation, it will be return false. Need login again.

+login(displayNameOrEmail, password) to check there is a user who display name equals displayNameOrEmail and password equals password or email equals displayNameOrEmail and password equals to password.

+cechDisplayName(displayname) check the displayname is legal or not, only user while sign up.

+checkEmail(email) check the email format is legal or not

+signup(User) insert a new user’s information into database.

+logout() log out.

+changePassword(password) change password

Class name: Question

Superclasses: none

Attributes:

-Id: a field to recognize questions

- AcceptedAnswerId: every question just have one accepted answer, this field will store the accepted answer’s id

- Score: how many reputations to answer this question will get

- ViewCount: view count

- Body: question’s content

- CreationDate: question’s create date

- OwnerUserId: question’s owner’s id

- Title: question’s title

- Targs: question’s targ

- AnswerCount: question’s answer counting

- CommentCount: question’s comment counting

Method:

+sets(Field): every attribute has their own set method to set that attribute value

+gets():every attribute has their own get method to get that attribute value

+addQuestion(Question):User can ask a question, according this method, it will create a record of question in database

+getQuestionsOrderByCreateDate(currentPage,limitNumber):get several questions from currentPage\*limitNumber to currentPage\*limitNumber+limitNumber.

+getQuestionByQuestionId (id):get one question according to id. It will make this question’s view count add 1 and the owner of this question’s view count add 1.

+searchQuestion(condition):search questions which the question title or body like condition.

+UpdateQuestion(question):update the data of this question.

+findQuestionByHot():find several lines of the hottest questions.

+findRandomQuestion():find several lines of the random questions.

+findRecommendQuestion(user):find several lines of the recommend questions. According user’s information.

+upVote():up vote this question. It will make this question’s up vote count add 1 and the owner of this question’s up vote count add 1.

+downVote():up vote this question, It will make this question’s down vote count add 1 and the owner of this question’s down vote count add 1.

Class name: Answer

Superclasses: none

Attributes:

-Id: a field to recognize answer

- ParentId: recognize which question this answer answered.

- ViewCount: view count

- Body: answer’s content

- CreationDate: answer’s create date

- OwnerUserId: answer’s owner’s id

- AnswerCount: answer’s answer counting

- CommentCount: answer’s comment counting

Method:

+sets(Field): every attribute has their own set method to set that attribute value

+gets():every attribute has their own get method to get that attribute value

+findAnswersByQuestionId(id): find all answers which belong to a question which id equals id.

+addAnswer (Answer): Add a answer for a question

Class name: Comment

Superclasses: none

Attributes:

-Id: a field to recognize comment

- postId: recognize which question or answer this comment belongs to.

- text: comment’s content

- CreationDate: answer’s create date

- OwnerUserId: answer’s owner’s id



Method:

+sets(Field): every attribute has their own set method to set that attribute value

+gets():every attribute has their own get method to get that attribute value

+addComment(Comment): Add a comment

+finCommentByPostId (postid): find all comments which postid equals to postid.