Class AccountRegForm

- Attribute:

private String username

private String password

private String fullName

private String email

private char gender

private String contact

private String studentId

private String studyPeriod

- Method:

/\*\*

\* Show Form Attribute on UI

\*/

public void showForm()

/\*\*

\* Update Account Reg Form and send

\*

\* @param username is user name

\*

\* @param password is password

\*

\* @param fullName is full name

\*

\* @param email is email

\*

\* @param gender is M (male) or F (female)

\*

\* @param contact is contact phone number

\*

\* @param studentId is HUST studentId (optional)

\*

\* @param studyPeriod is HUST studyPeriod (optional)

\*

\* @return boolean true if the form is correct and sent, otherwise false and send back error

\*/

public boolean sendForm(String username, String password, String fullName, String email, char gender, String contact, String studentId, String studentId, String studyPeriod) {

check if every attribute followed predefined rules (Ex:

- password must be >= 8 characters having at least 1 number and 1 capital letter

- email must follow right form

- gender must be F or M)

then send form

}

Class AccountRegController

- Method:

/\*\*

\* Check form detail

\*

\* @param AccountRegForm is a register account form with details

\*

\* @return boolean true if the form is correct

\*/

public boolean checkForm(AccountRegForm form) {

check if every attribute satisfied conditions (Ex:

- username is not taken

- email is not already used

)

}

/\*\*

\* Confirm the form and request to save new account in database

\*

\* @return boolean true if the form is confirmed

\*/

public boolean confirmForm()

Class Account:

- Attribute:

private String username

private String password

private String fullName

private String email

private char gender

private String contact

private String studentId

private String studyPeriod

- Method:

/\*\*

\* Query in database by get account by username

\*

\* @return Account

\*

\* Throw exception if encounter error when reading from database

\*/

public Account getAccByUsername(private String username)

/\*\*

\* Query in database by get account by email

\*

\* @return Account

\*

\* Throw exception if encounter error when reading from database

\*/

public Account getAccByEmail(private String email)

/\*\*

\* Add new Account to database

\*

\* @return Account

\*

\* Throw exception if encounter error when writing to database

\*/

public boolean addAccount(String username, String password, String fullName, String email, char gender, String contact, String studentId, String studentId, String studyPeriod)