Class Responsibility Collaborator Model

Web Application
Monday, July 3rd, 2017

System Design

CSCC01 – May The Forks B With You

Class Responsibility Collaborator Model

Web Application Monday, July 3rd, 2017

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Web Application

CRC CARD

	U	lser
-	ID	AccountService
-	Username (Display Name)	ClassService
-	Last Name	Classroom
-	First Name	Post
-	Email	File
-	Description	Role
-	UTorld	
-	Profile Pic	
-	Register as a user	
-	Log in	
-	Update personal information	
-	Upload profile picture	
-	Search Classroom by course code,	
	semester, year	
-	Join a Classroom	
-	Create Classroom for a course	
-	Set as a manager of a Classroom	
-	Set as a teacher of a Classroom	
-	(Default role – student)	
-	Check chatting histories	
-	Chat in chatroom	
-	Send messages anonymously	
-	Post questions	
-	Answer questions	
-	Adopt an answer to resolve posts	
-	View all questions posted in joined	
	classroom	
-	View all files uploaded in joined	
	classroom	
-	Upload a file	
-	View profile of classmates	
-	Send private messages to friends	
-	Send friend request to other users	
-	Have a list of friends	

Search for posts by keywords

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- Search for posts by tags
- File complaints on inappropriate posts
- Cannot hack in using CSS Injection

Role

- ID
- Role Name
- Description
- If this role can send message
- If this role can post
- If this role can upload file
- If this role can delete own message
- If this role can delete own post
- If this role can delete own uploaded file
- If this role can delete other's message
- If this role can delete other's post
- If this role can delete other's file
- If this role can delete a classroom

lassroom

User

Post

- ID
- Course Code
- Semester
- Year
- Title
- Description
- All [enrolled] Users and their roles
- Keep track of historic chatting messages
- Keep track of list of posts
- Keep track of all files uploaded
- Notify all users about alerts/important posts

File ClassController

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-	Keep track of posts that are
	alerts/important posts
-	Collect tags from collection of posts

	Post	
-	Post ID	User
-	Post Title	Classroom
-	Post Content	ClassController
-	Date posted	
-	User association of post	
-	Classroom association of post	
-	If it's a follow-up post or not and if	
	yes, the parent post id	
-	Save post in database	
-	Resolved post with utilization and	
	adoption of an answer	

File	
- File Name	User
- DateTime uploaded	Classroom
- Location of the file	ClassController
- Uploader	
 Classroom it belongs to 	

IndexController	
- Link to Login	User
- Link to SignUp	SignUpController
 Link to Logout if logged in 	LoginController
- Search bar of Classrooms	ClassService

SignUpController	
- Obtain username	User
- Obtain first name	AccountService
- Obtain last name	

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 - Obtain password
 - Obtain UTORid
 - Use AccountService to register a new user with info obtained

LoginController User

- Obtain username
- Obtain password
- Authenticate within databases using username and password
- Redirect user to profile page after logged in

AccountService

ProfileController

- Upload and set profile picture
- Set first name and last name
- Change first name and last name
- Upload resume
- Set major
- Change password
- Communicate with AccountService to update DB with changes

User

AccountService

ClassControlle

- Get posts created by user and use ClassService to save to db
 - Get files uploaded by user and use
- Get messages sent by user and use ClassSerivce to save to db

ClassService to save to db

User

Post

File

ClassService

AccountService

- Check if user is logged in

- Logout user

User

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Save user info into db

time

-	Authenticate	
-	Sign up a user	
-	Retrieve user info from db	
-	Save user profile pic into db	

ClassService		
- Retrieve a class info from db		
 Record in db that a user joins a 		
classroom		
- Create a classroom		
- Delete a classroom		
- Update a user's role in the classroom		
- Send out a chat message and record		
in db		
- Pull and update chat messages in real		

Architecture Diagram

