

COMP 4921 Database Systems 2

Project 2

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Introduction:

Discussion board with comments and likes.

Think Reddit (<https://reddit.com>)

SQL Antipatterns

There are at least 3 SQL Antipatterns to avoid when planning and implementing this project.

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Requirements:

Required functionality and best practices:

- Authentication (login with hashed passwords, password validation ≥ 10 characters with upper/lower, numbers, symbols)
Must be logged in to create content.
Do not need to be logged in to view content.
- Authorization (you can only edit your comments, any attempt to edit anyone else's results in a 400)
You **can** however remove someone's comment if it's **your** thread.
- Sessions (Cookies in an encrypted MongoDB)
- Hosted on Render, Cyclic, etc
- Use a service like cloudinary to store profile images for each user
- Show stats on number of views
- Must have a pretty interface (think Bulma, Bootstrap, etc.)
 - Minimize custom CSS
 - Common header footer with highlighting links
 - Button to login / log out (depends on if you are logged in)
- Full text search for comment content
 - Ability to search for any word within the comments and thread title and description.
 - Search results should be ranked by word frequency
(When searching for the word "cat", a discussion threads with the word "cat" in 10 times should show up before threads with "cat" only 3 times and before threads with "cat" only once.)
- Good database design, normalized (non-redundant), secure.
- You should have the ability to like comments and threads. A threads total likes must be shown, which is a total sum of all likes on the thread and the sum of all comments.
- With each comment and thread created, use the user's profile picture to show who posted it.
- Have a stats page that will show the most popular threads.

Professional application. Bug free (well tested). Production quality.

NOTE: For top marks, think about ways to go above and beyond the requirements listed above.

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Deliverables:

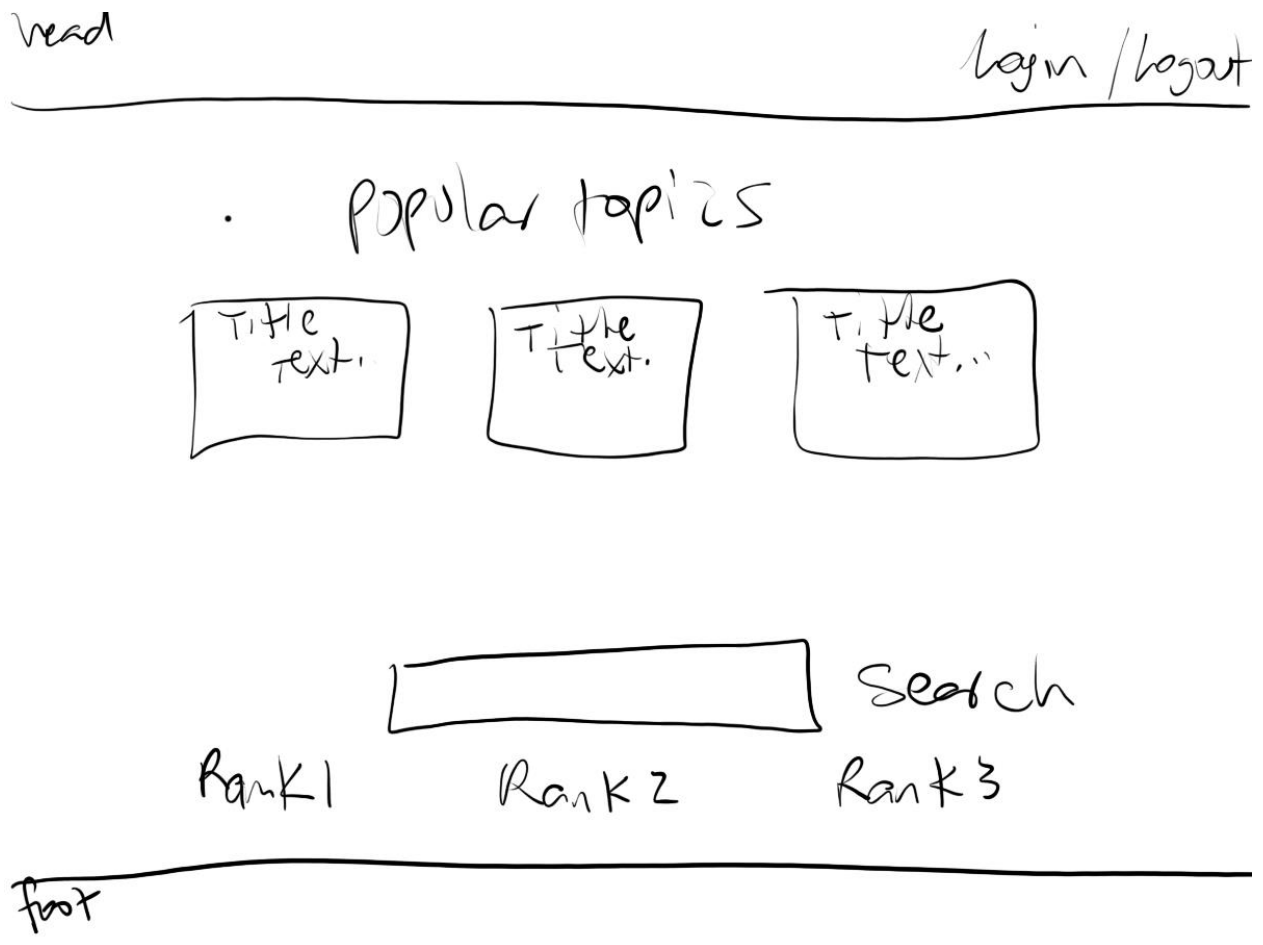
Self-enroll with your team member in the Learning Hub.

GitHub repo (add @greencodecomments) and provide repo URL.

Time tracking software – Trello? Other? (invite me: Patrick_guichon@bcit.ca)

Demo of code every week.

Hosted site URL.

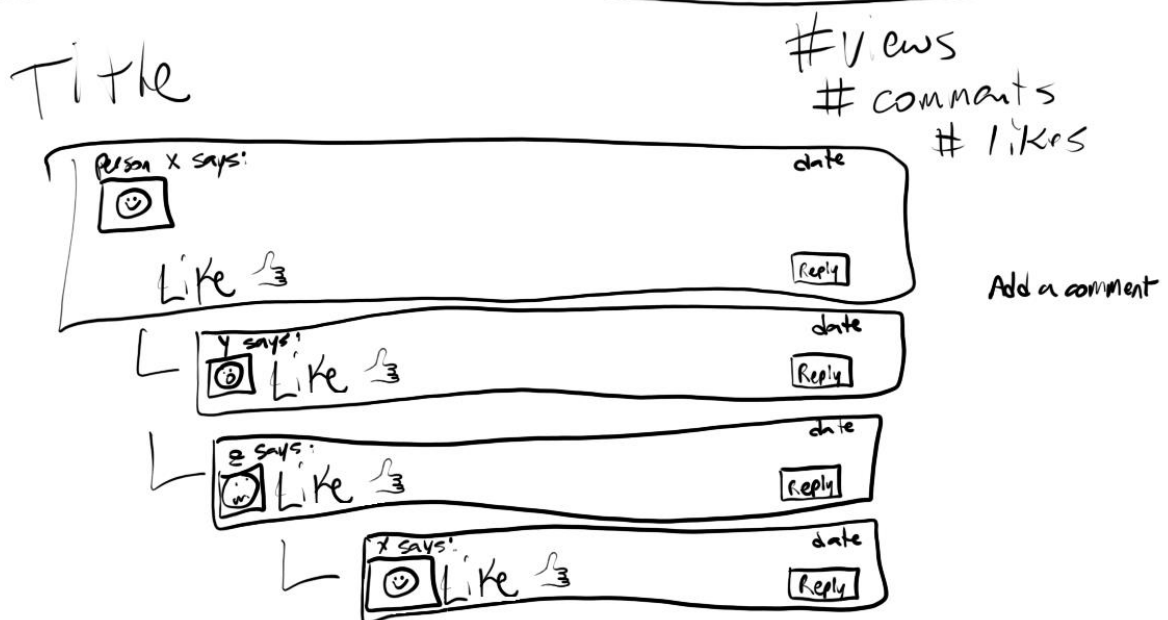


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Title
Text ...

posts
views # likes last update

need



foot

head

name :

pic :



threads #comments #comments #likes last update

					⊕
					⊕
					⊕
					⊕

foot

⊕ add new thread

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Marking Guide:

Criteria	Marks
Functionality and Best Practices	40 marks
Professional Looking Application	20 marks
Total:	60 marks
You will receive a mark of 0 if your code does not compile or has too many errors to run!	

Submission Requirements:

Submission:	File name:
A txt file containing the Hosted Web app URL. ex: <code>http://xrb198fpq1a.us11.render.com/</code>	Web_app_URL.txt
A zip file containing all the source code required to run your Node.js application. Do <u>NOT</u> include the <code>/node_modules/</code> or the <code>/.git/</code> folder	Members_site_code.zip