

TechTrek 2022 Challenge Statement

20th January 2022

Introduction

At DBS, we value the importance of diversity and inclusivity, especially during this pandemic. Having a social engagement platform within DBS helps to create a joyful working culture and allows us to stay connected with one another by sharing engaging posts and articles of various topics.

Challenge Statement

As a team, your task is to create a simplified full-stack social engagement platform that allows users to post short excerpts on various topics they are interested in. This ***must be a web application***.

*For every Frontend task, there will be a matching Backend task as indicated by the numbering. E.g.,

Basic Requirements (Frontend)	Basic Requirements (Backend)
User must be able to login [1]	Server must be able to authenticate a user's identity [1]

Basic Application Requirements (Frontend):

- You must render a login page
 - User must be able to login [1]
- You must render a home page
 - User must be able to view all posts from every user [2]
- Users must be able to:
 - Add/Upload a new post [3]
 - View all posts from personal profile [4]
 - Edit individual post [5]
 - Delete individual post [6]

Basic Application Requirements (Backend):

- You must set up a valid authentication API
 - Server must be able to authenticate a user's identity [1]
- You must set up API endpoints with the following functionalities:
 - Return a list of **all users'** posts from the **Posts** table [2]
 - Insert the post created from frontend into the **Posts** table [3]
 - Return a list of the **logged in user's** posts from the **Posts** table [4]
 - Update the user's post that has been edited on the frontend into **Posts** table [5]
 - Delete the user's post from the **Posts** table [6]

Basic Application Requirements (Integrate):

- Integration is a crucial requirement for this hackathon. The front end and back end should be **integrated seamlessly**.

Advanced Requirements (Optional, in any order, but good to have):

- Able to search for other users
- Able to search for posts
- Able to chat with other users
- Include JSON Web Tokens in your authentication
- Features that enhance the user journey

Optional Technical Depth (showcase your skill set):

- AWS/GCP to deploy your application to the cloud

Data provided

You will be given:

- Data in JSON and SQL format
 - The entries provided are not exhaustive and you can add more to suit the needs of your application

ERD Diagram

