

Writeup of Execution Plan for Mid-Assignment Submission.

Name : Tan Jing Sheng
Matriculation Number : A0253492B
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1. Overview

In this assignment I would be designing and building a simple web forum called “Jsask”. The name Jsask is derived from the wordplay of “Just Ask” and my initials “JS”. Jsask will have a tagline of “Just Ask It!”.

2. Use Cases

The website is designed for users of all ages and as per the tagline of the forum, the main use case for the forum would be to allow users to post any questions they would like to ask on the forum’s community. However, the forum is not limited to asking questions only. Users may post any content they desire posting.

What can users do?

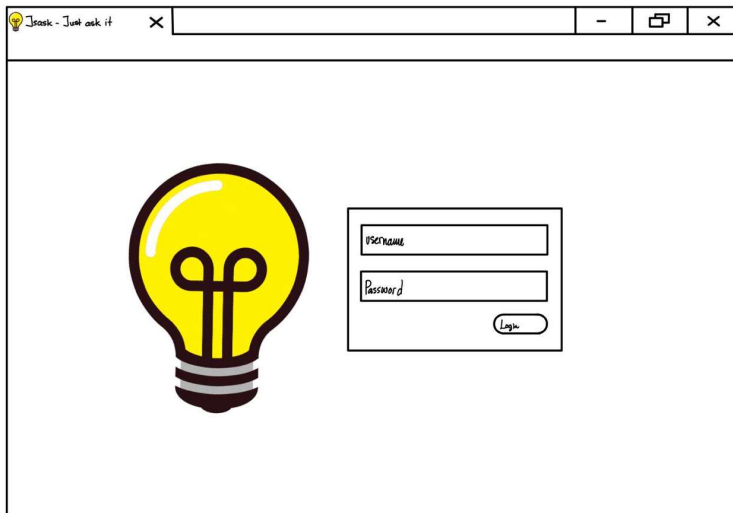
- Login to the website using a simple authentication system
- Create posts and post comments on a selected post
- Update and Delete posts and comments
- Upvote and Downvote on posts and comments
- Sort posts based on date posted and popularity
- Filter posts on the post tags

3. Database Schema



4. Wireframe

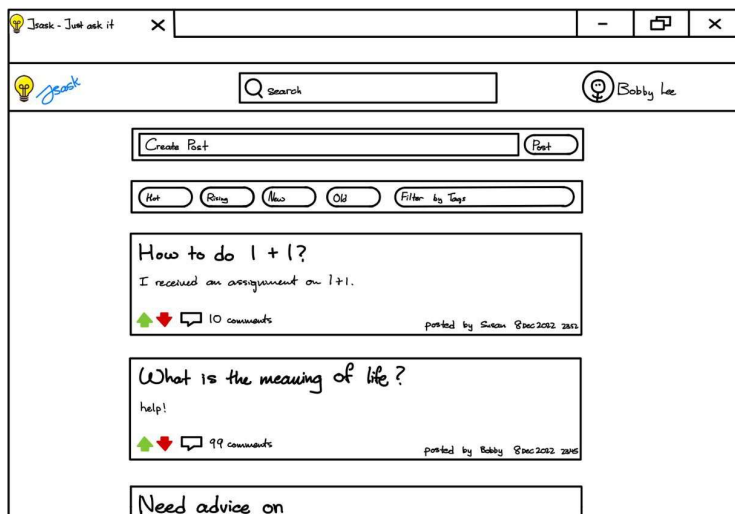
Login Page



The Login Page will be used for the user's authentication. The Password functionality will only be implemented as an additional feature*.

Upon successful authentication the user will be redirected to the Home Page.

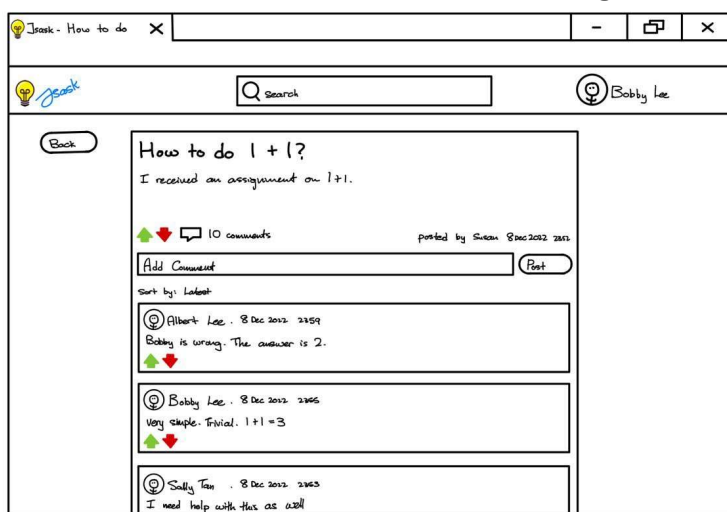
Home Page



The Home Page presents the users will all the posts made by the user themselves and other users.

Users may create posts which will be added on the home page. Users may also interact with the post and comments by giving upvotes and downvotes to the posts.

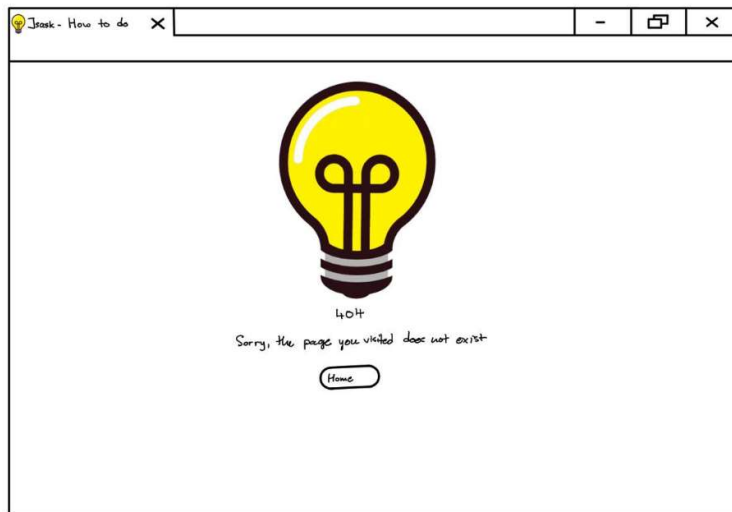
Post Page



Users will be directed to the Post Page of a particular post when they click on the "comment-icon" at the bottom of each post in the Home Page.

At the post page, users may post comments on the particular post. Users may also interact with the post and comments by giving upvotes and downvotes to the posts.

Not Found Page



Not Found Page will be presented if the user enters an invalid URI

*Additional features will only be implemented if time permits.

5. Frameworks, hosting and more

Frontend

- Reactjs – [react-router-dom, react-redux, redux, redux-saga]
- AntDesign – icons and more
- Fontsource – poppins
- Hosting – TBC

Backend

- Golang – [go-chi, gorm, gotoenv, postgres driver]
- Hosting – TBC

Relational Database

- pgadmin 4
- Hosting – AWS RDS

6. Plan

Description	Dates	Comments
Basic Research	05/12 – 13/12	Learn new frameworks
Designing	05/12 – 13/12	Wireframe, Schema
Work frontend	05/12 – 13/12	Start coding react app
Break	14/12 – 20/12	Overseas
Research	20/12 – 31/12	Learn more new frameworks
Work on backend	20/12 – 31 / 12	Start coding go app
Break	31/12 – 08/01	Overseas
Work on frontend and backend	09/01 – 22/01	Brush up on the code base
Connect everything	09/01 – 22/01	Ensure frontend, backend can connect to db hosted on AWS
Deployment	22/01 – 25/01	Deploy frontend, backend
Writeup	22/01 – 25/01	Final item