EXIT TEST

Problem Statement

The problem statement is a product community website where a customer can visit, register themselves, browse questions, raise questions, post comments and like comments.

Please make reasonable assumptions wherever required and state them clearly in a separate text file (if any).

2 applications are to be developed.

First application (REST API – No UI, only backend):

User authentication API
Build a Rest API to support successful/unsuccessful user authentication validation.

User registration API
Build a Rest API to register new users.

Search question API
Build a Rest API to search a post/question by one or many of the following parameters:

1. Question text
2. Product code
3. User email
4. Label/tag
5. Date

Post question API
Build a Rest API to post a new question.

Post comment API
Build a Rest API to post a new comment.

BONUS: Close question API
Build a Rest API to mark question as answered and link the correct answer to the question.

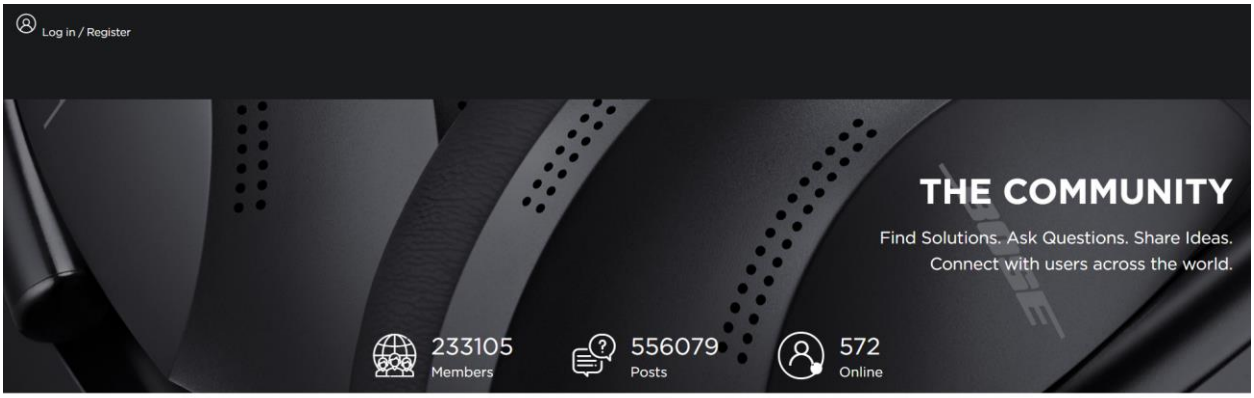
BONUS: Stats API
Build a Rest API to get count of stats to be shown on homepage.

Second Application (using Angular):

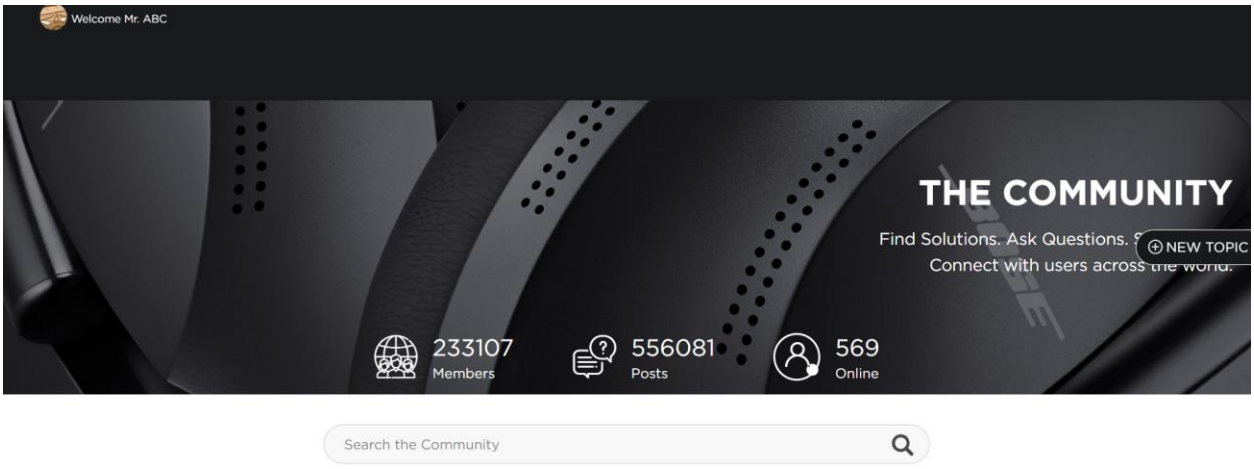
Technology stack: Angular 11, Responsive design, Angular CLI, npm

Homepage

Landing page should have links for Registration and Login. **BONUS**: homepage should show few stats such as number of registered users, number of questions, number of closed questions etc.



For a logged in user, Homepage should show a search box with which a customer can search for a question. Also, it should have options to 1) view questions raised by me, 2) raise a new question.

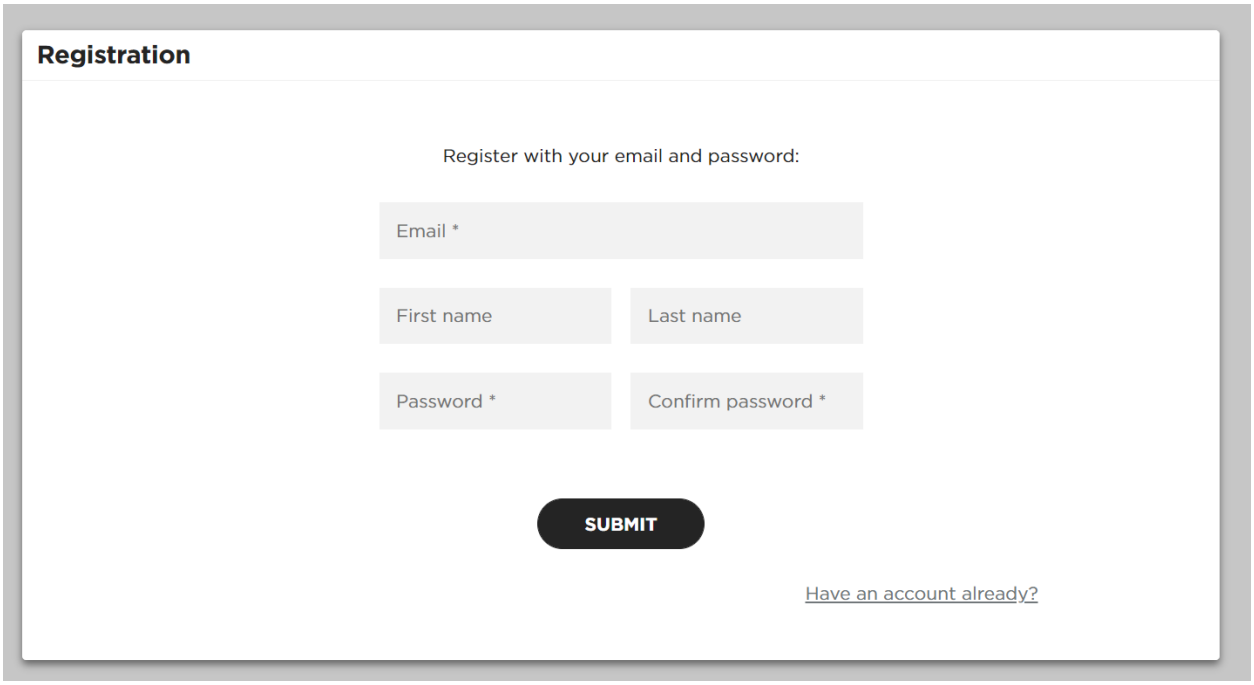


Login Page

The application should have a login page. User should be able to login. Proper error messages should be handled in case of invalid authentication.

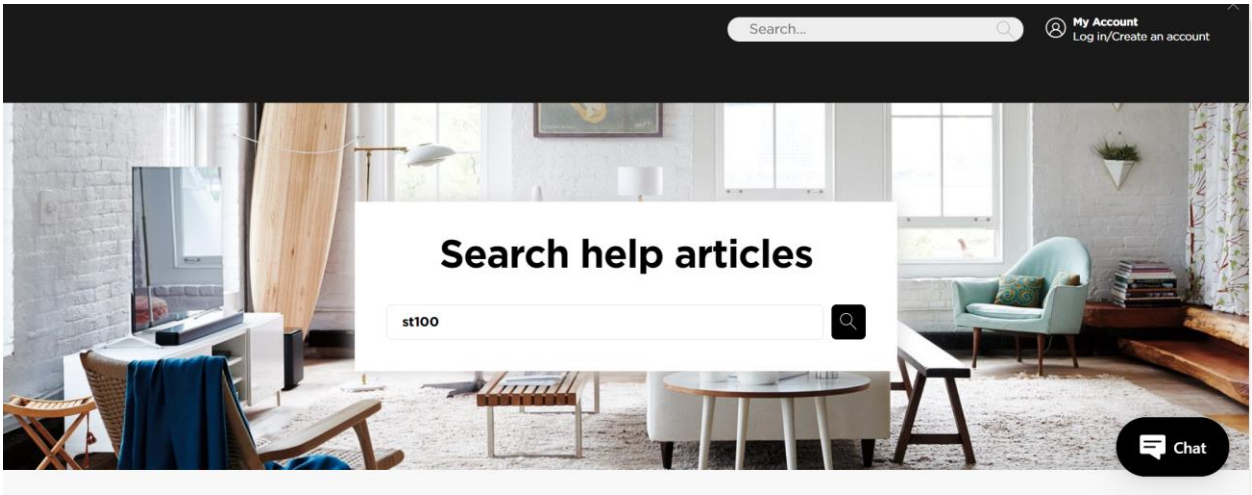
Registration Page

The application should have a registration page. User should be able to register. Validation for email address, password policy, mandatory fields such as name etc. should be performed.



Question search page

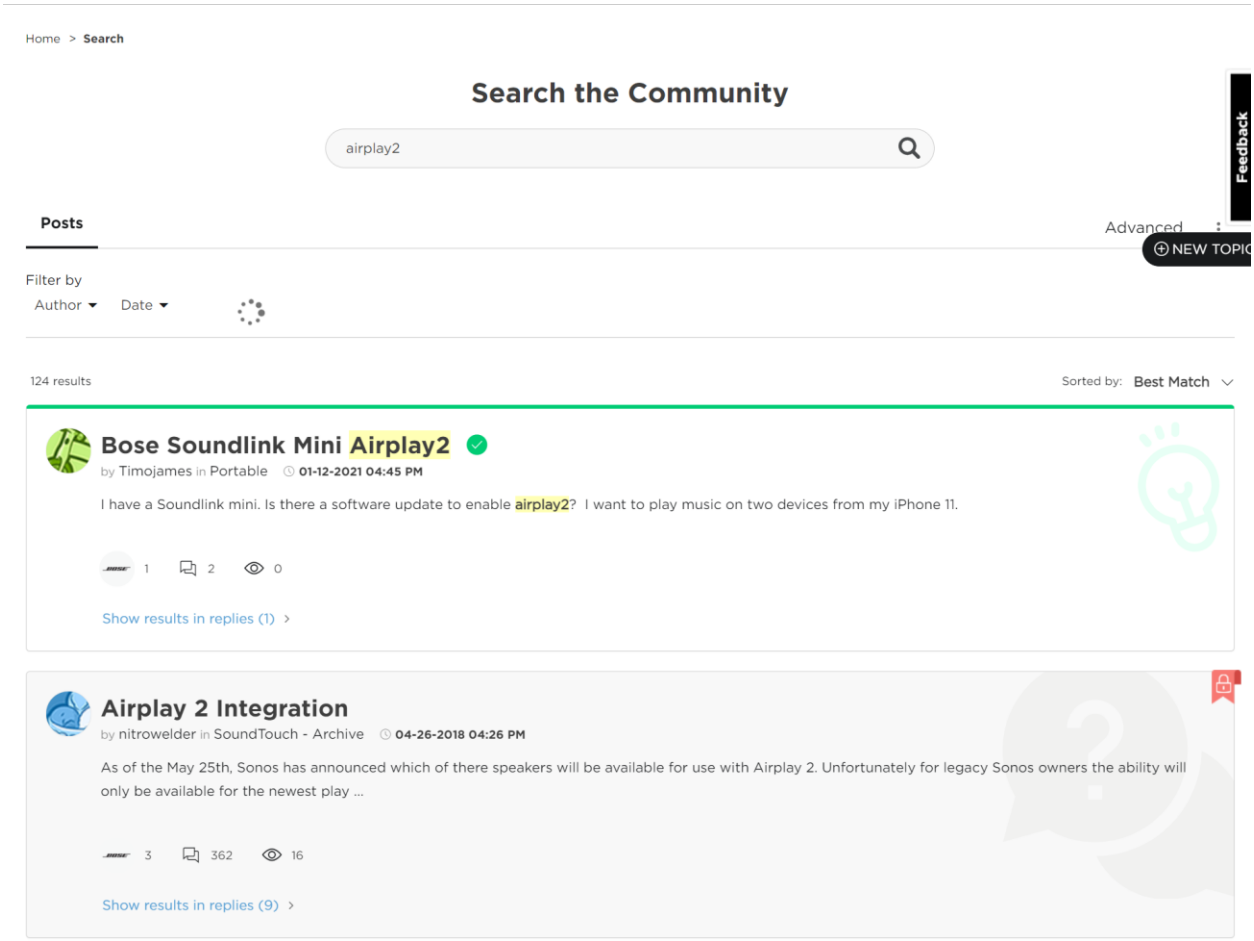
Search screen should search the input text against all input parameters specified in as question text, author, tag, product, date.



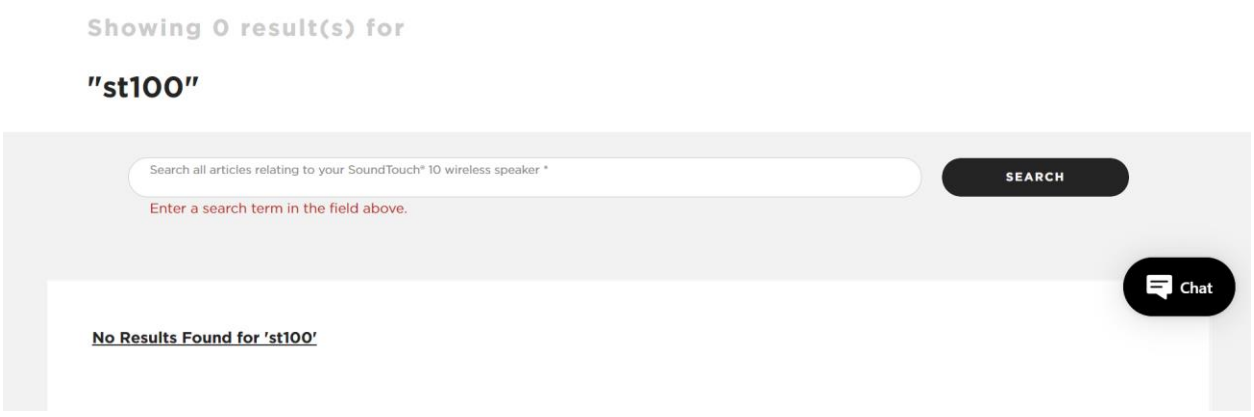
Results Page

Once Search is triggered after specifying the search parameters, It will display the search results using the API from 1st Application.

The user should be able to see the posts and filter them further by author, date, product, tag. User should be able to see all post with description, number of comments etc. **BONUS**: It should also show whether whether the post has been marked answered or not.

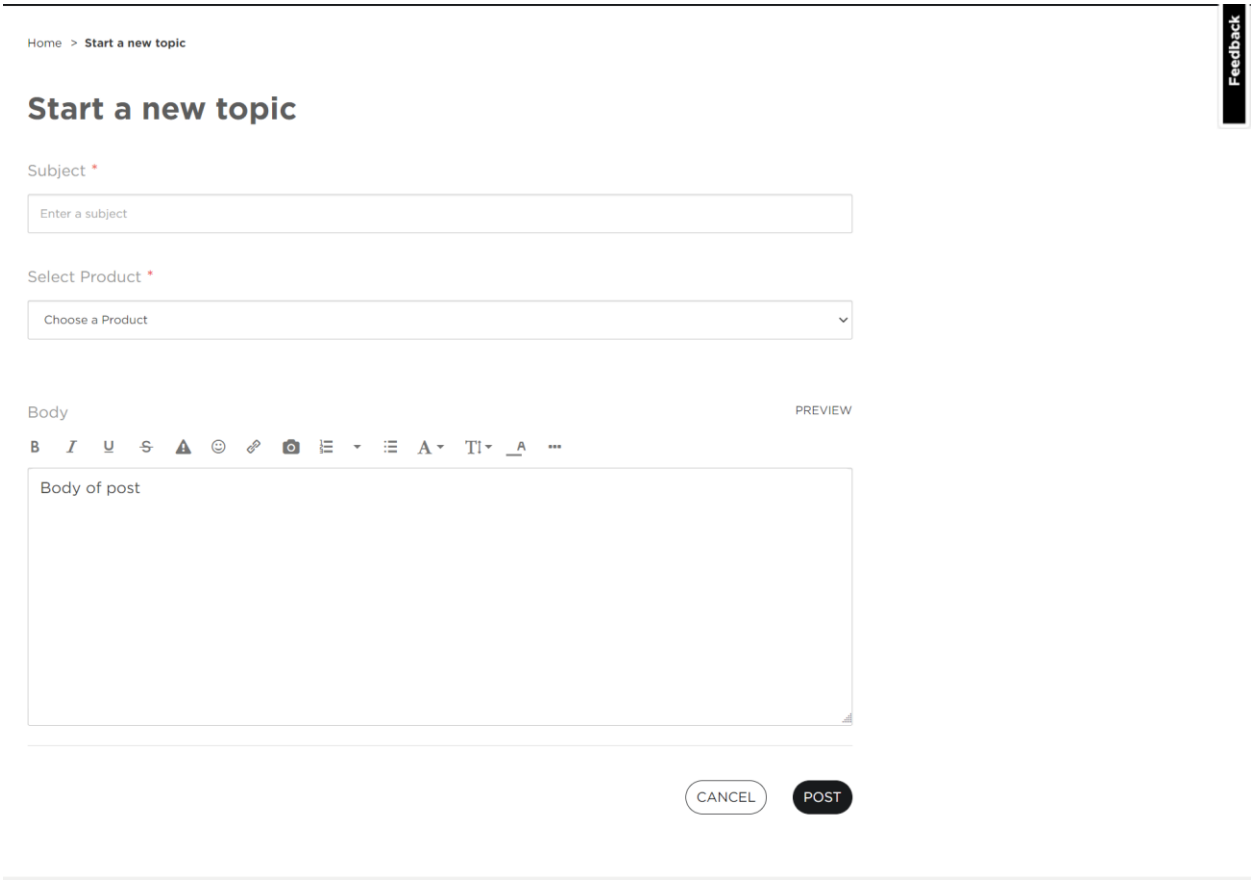


If no results are found, error messages should be displayed.



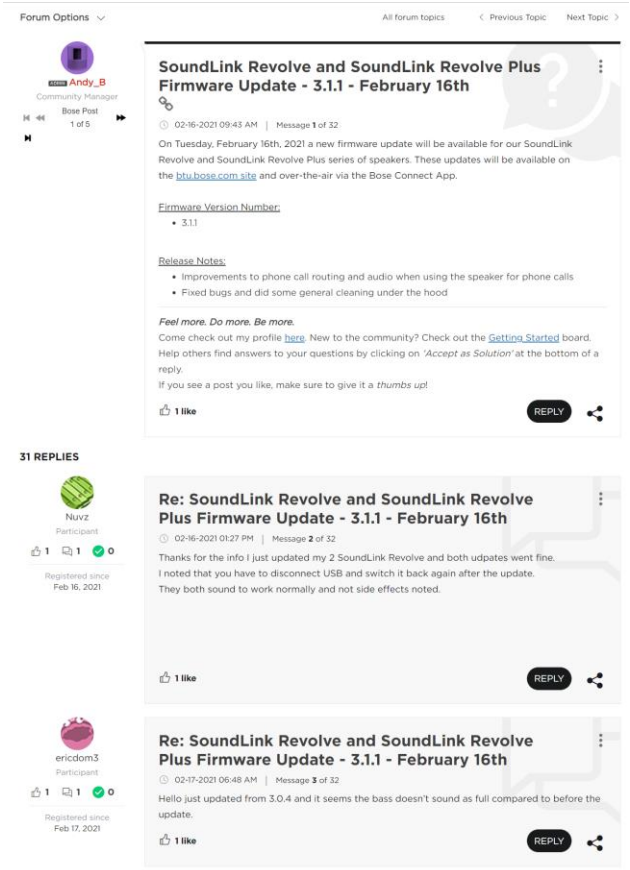
Post a question.

User can raise a new question by submitting a simple form.



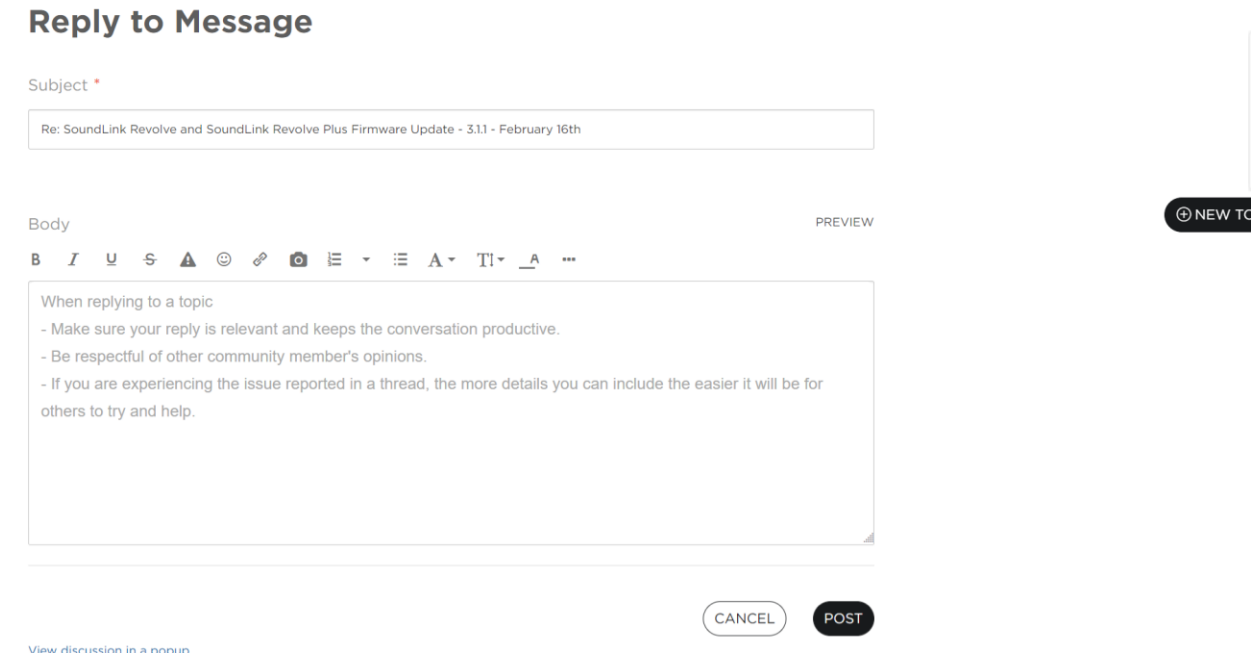
Question details

User can select a question and view its details.



Post a comment.

User can post a comment to a question by submitting a simple form. The option to submit a reply should be visible on bottom of every open question.



My Questions

Logged in user can view the questions raised by them.
BONUS: User can select an answer posted by another user as the solution and mark the question as solved.

Logout

User should be provided with an option to logout.

Some clarifications:

- Screens provided are just for reference. You can design pages as per your creativity.
- Proper coding conventions should be followed.
- Concepts such as interceptors, guards etc. should be implemented.
- Both applications should be fully functional

Timelines:

6 PDs

Evaluation Criteria

1. Rest API implementation completeness.
2. Authentication
3. Adherence to Restful APIs best practices.
4. Integration between Angular and Rest API for searching and displaying the results.
5. Implementation of Logout functionality
6. Adherence to best coding and design practices for both the applications.
7. Bonus points will be awarded for bonus parts.

ALL THE BEST!!!