Development of Interactive Website for Bangladeshi Students Association, Kiel

BSA Kiel

Introduction

The website for Bangladeshi Students Association, Kiel is a community user based website for students studying and living in the city of Kiel. As a gradual growing community for maintaining correspondence with each other and to perform many other activities as a group, an interactive user-friendly website was a dire need. For this, we have decided to develop an interactive website through front end and back end programming. We have used JavaScript as the programming language mainly for server side (node.js as runtime environment), express framework, socket i/o techniques to perform our task efficiently which in turn enables the user to interact with the website instances like registering themselves, sending messages or chatting smoothly. All of the user activities are stored in a database. We have used structured SQL database for this purpose. To develop such a project, we have followed agile methodology like Scrum to complete as our task has gone through multiple changes at various levels since the staring.

Motivation

❑ To manage Growing number of BSA Kiel under one platform
❑ A digital home to BSA Kiel
❑ Providing community services through the system
❑ Communicating with the members
❑ Assigning tasks to the member
❑ Get update of ongoing community activity

Tools used

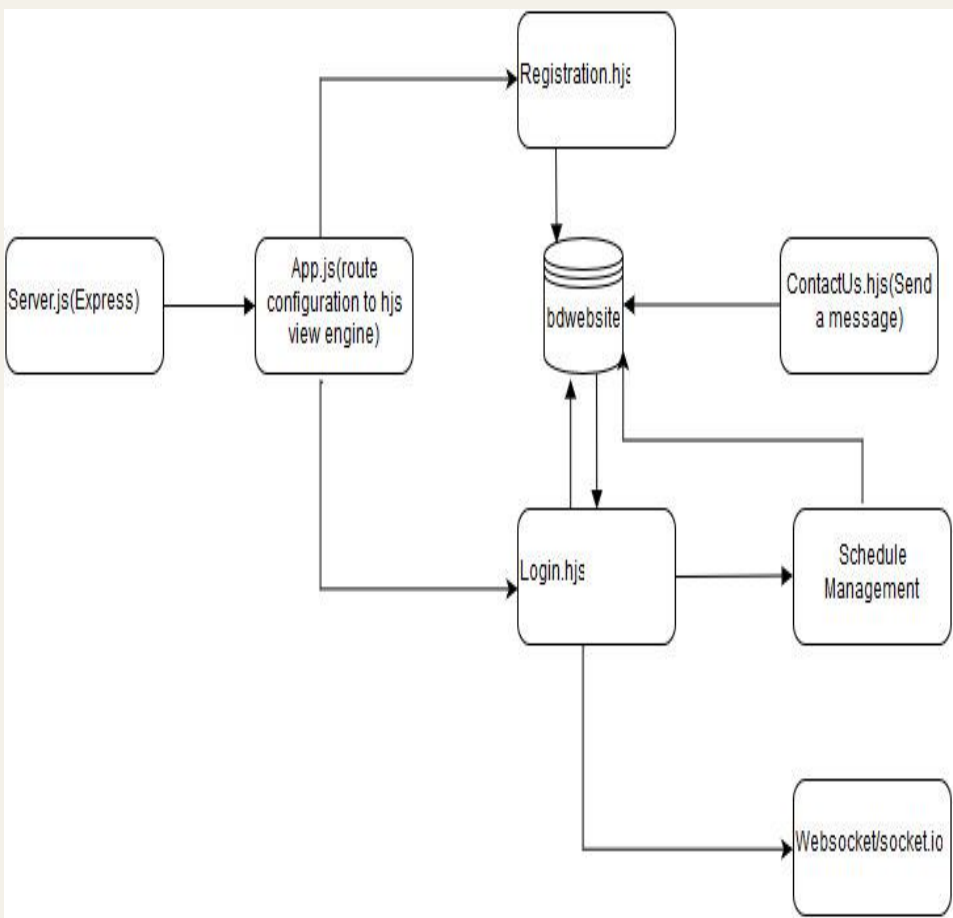## Project deliverables

❑ Front end design
❑ Database design
❑ Back end work
❑ Comments & reply
❑ Online Registration & login
❑ Online group chatting
❑ Assigning Schedule

Flow Diagram

Our work flow diagram provides a graphical overview of our processes. The square boxes in the figure showing the steps and their order by connecting them with arrows and the cylindrical shape in the center represent our database

BSA Activity

❑ Website will be connected to a Database (Create database tables and privileges)
❑ Any person can send message which will be stored in database (Receives a confirmation message if successfully sent)
❑ Any person can register (Receives a successful registration message)
❑ Registered User can login
❑ User can participate in live chat
❑ Admin can manage schedule / event in calendar

Results

❑ Successfully created e-reg. module.
❑ login authentication module created.
❑ developed a common chatting platform where logged in users can chat.
❑ Created an interactive interface in the contact us page where any person despite of being user or not will be able to send message or feedback to the admin and get an auto reply.
❑ All user information's can be stored and retrieved from database.

Limitations

❑ In live chat platform peer to peer chatting is unavailable, at this moment, it is a group chat platform.
❑ Any logged in member can update schedule management, super admin hasn't been introduced.
❑ In our contact us page the server is unable to send a auto reply .

Future work

❑ Overcome the limitations
❑ Launch our Project in CAU domain
❑ More modules and interfaces will be added
❑ Generate peer to peer chatting option.
❑ Sending a auto reply from the web server.

Conclusion

A community based interactive website works like a bridge among the members of the association , nevertheless, it also depends how does the user utilizes and understands the options provided in the website. On the other hand it must be user friendly, jargon free, easy to understand, updated and equipped with modern amenities. When these two situation are mutually inclusive then we may deemed to be successful. We have tried our best to match the criteria that was required for this project and there is undoubtedly a lot more to do on this website in the future.

Contact Information

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