Gatha

get togetha

Private group chat application

Team

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Felix Schmidt
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Yesim Demir
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Abdulwase Naeemi (He/Him/His)

Yesim Demir

Design Lead & Full-Stack Allrounder

- Defined most of the application design; eg. Logo and slogan, color pallette, fonts
- Coded both on the client and server side by exchanging ideas with the rest of the team.
- Contributed loads of feature ideas concerning the best UI/UX practices and the accessibility.

The Problem

Solution Proposal

Wireframes

Next Steps

Abdulwase Naeemi

Backend & Socket.io Lead

- Defined server project structure
- Developed RESTful APIs
- Implemented real-time socket.IO connections (client/server).
- Executed database migration
- Collaborated with client team
- Optimized system performance and debugging

Felix Schmidt

Frontend Lead & Product Manager

- Defined client-side project structure
- Contributed most of the client-side code
- Helped team to work in a structured way:
    - Led at defining MVP functionality & implementation order
    - Applied and managed agile methods & and tools (Kanban, Trello)

The Problem

Solution Propos

Wireframes

Next Steps

Project

Project story

- Project idea presentation by each team member
- Group vote: group chat application
- Goal: Build a functional product that classmates can use during the final presentation

Technologies

- **Frontend:**
  - React
    - major packages: emoji-picker-react, react-icons, react-helmet-async, socket.io-client, vite
    - analytics: piratepx
- **Backend:**
  - Node
  - Express
  - MongoDB
  - Socket.io: real-time connection between server and client (instead of request-response)
- **Code:**
  - Project GitHub Repository

Challenges

- Ambitious scope of the project
- Aligning on MVP functionalities
- 1 developer resigning after having defined MVP
- Flu season
- Working in a team
- Choosing unknown socket.io as core technology
- Write clean, reusable & readable code with valuable comments and JavaScript documentation

Core functionality

- Design:
  - application looks nice on all devices and has a different structure on smartphones due to limited display size;
  - application has 2 different designs depending on logged-in status of the user
- General:
  - user creation & authentication: JWT token security and automatic logout when token expires
  - group creation and management: users can create groups, add other users (via sharing humanly readable group code or by manually adding them), make users group admins, too and remove non-admin users from groups
  - Continuous sync of users' view and database
- Chat:
  - render all groups of a user and allow seamlessly switching between them , send & delete messages, always display the most recent message but allow browsing the whole group chat history
  - render group info: e.g. list of group members and their admin status, allow users to leave the group
  - display user online status and is typing indicator
  - emoji picker for desktop devices
- Dev tools:
  - Separate development deploy infrastructure (e.g. URL and database) to be able to test on the WEB prior to pushing to production

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And now: let’s get togetha!

https://gatha.netlify.app/

Code to join our final presentation gatha group:

6H7X6Y77

contact

Contact details

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Questions?