

Project Report: Developing a Social Network with React, TypeScript, and Supabase

Date: May 28, 2024

Introduction:

This report summarizes the work completed by our team in developing an innovative social network. Our project aims to provide a user-friendly platform where users can share projects, updates, and interact with other community members. To achieve this, we utilized modern technologies, including React with TypeScript for the frontend and Supabase for the backend.

Project Overview:

The site we have developed offers a plethora of features to encourage user interaction and facilitate project sharing. Among the key features, we can highlight:

1. **User Authentication:** Benjamin Bordes handled the initial setup of the solution, including user authentication. This step is crucial to ensure the security and confidentiality of user data.
2. **User Profile and Project Publication:** Benjamin Brehier Cardoso was responsible for developing the user profile, project publication, and project updates. He also implemented the display of the leaderboard for the most active projects, providing increased visibility to member contributions.
3. **Instant Messaging:** Benjamin Brehier Cardoso also implemented instant messaging functionality, allowing users to interact more directly. This feature promotes exchanges and strengthens community ties.
4. **Friend Recommendation:** Corentin Campano developed a friend recommendation system based on existing relationships between users and published projects (FOAF). This feature encourages the expansion of the social network by suggesting relevant connections. It highlights the algorithm behind powering the site and enhancing user interaction.

5. **Directed Graph Modeling:** Corentin Campano also worked on modeling a directed graph representing project tags and connected users. This approach provides a clear visualization of interactions within the platform.
 6. **Automatic deployment:** Benjamin Bordes also handled the CI and automatic deployment to a Vercel server.
-

Conclusion:

In summary, our team has accomplished remarkable work in developing this social network. Through the use of advanced technologies such as React, TypeScript, and Supabase, we have been able to offer a feature-rich user experience. Each member of the team has made a significant contribution, resulting in a dynamic and engaging platform. We are confident that our project will be successful and contribute to strengthening community bonds.

Development Team:

1. Benjamin Bordes
2. Benjamin Brehier Cardoso
3. Corentin Campano