

MigrantHub

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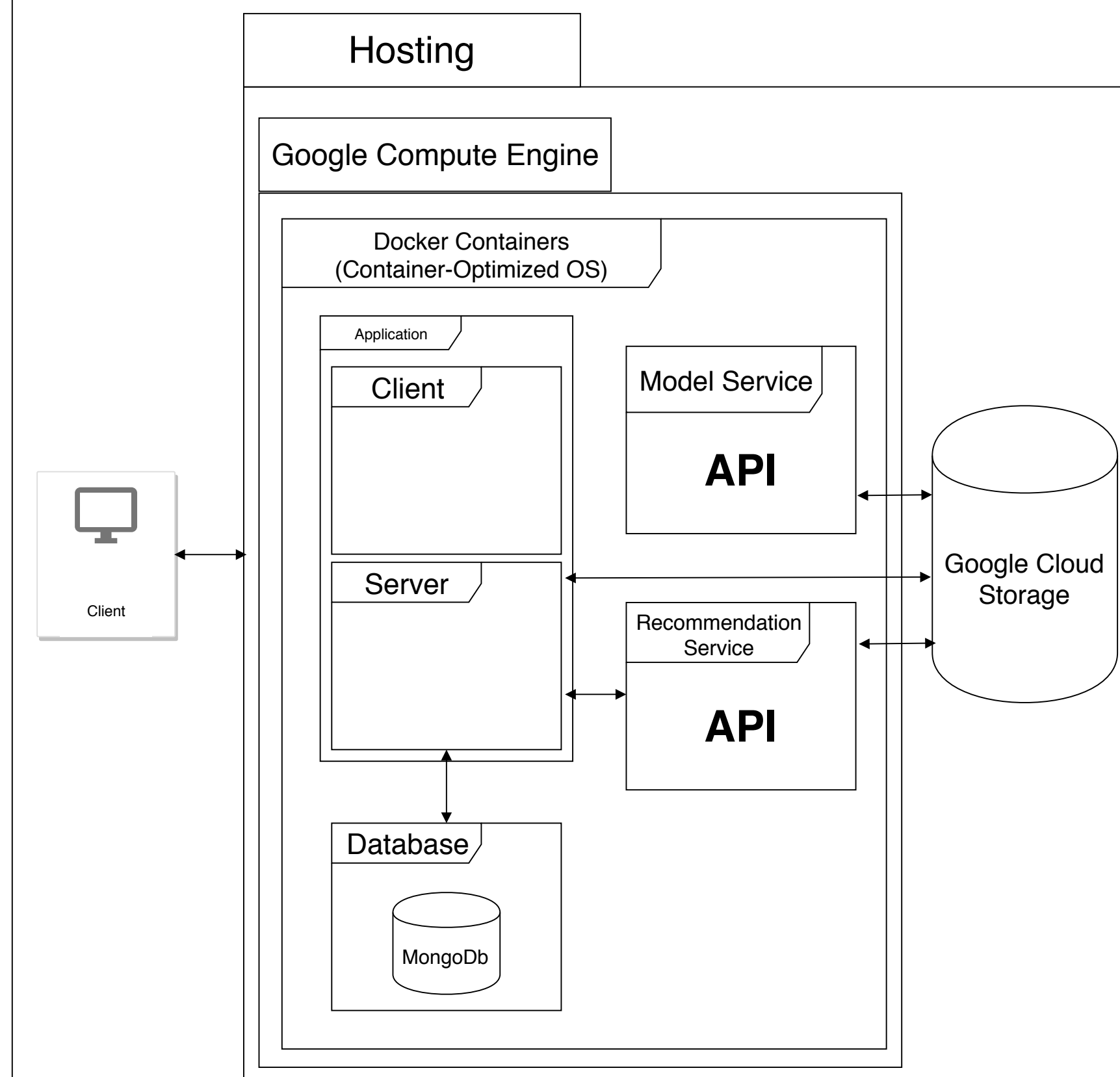
Purpose

A social network application geared at international students, immigrants, refugees, and prospective refugees. This web application aims to help newcomers transition into their new life in Canada. The platform centralize services for newcomers into one place for easy access. It also aims to create a space where newcomers can interconnect and help one another. They can also register for services that will be integrated into the application. These services can be provided by both governmental and non-governmental organizations to help migrants.

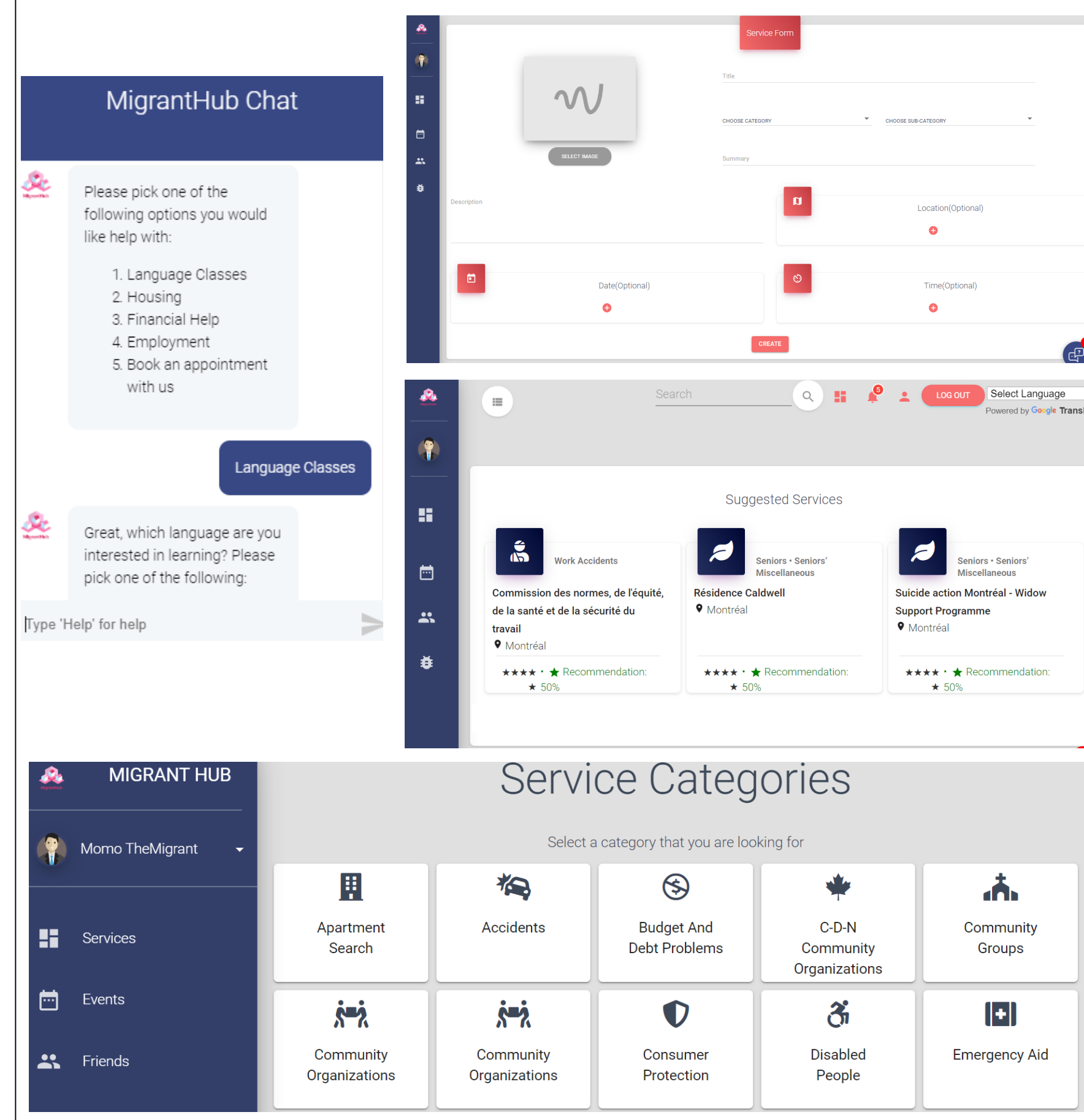
Motivation

Currently the services landscape for newcomers who are in Canada & are about to enter Canada are fragmented and tough to navigate, leaving newcomers confused as to which process would aid them in integration in the most efficient manner. This project aims to centralize all existing services in Montreal in one location, as well as provide newcomers with their own customizable dashboard to track, schedule, review, and discover new services with the aid of our built in chatbot. Lastly we track the most in-demand requests for services and the most successful paths of integration to create better suggestions in terms of quality & efficiency for future newcomers looking to integrate before or after they arrive.

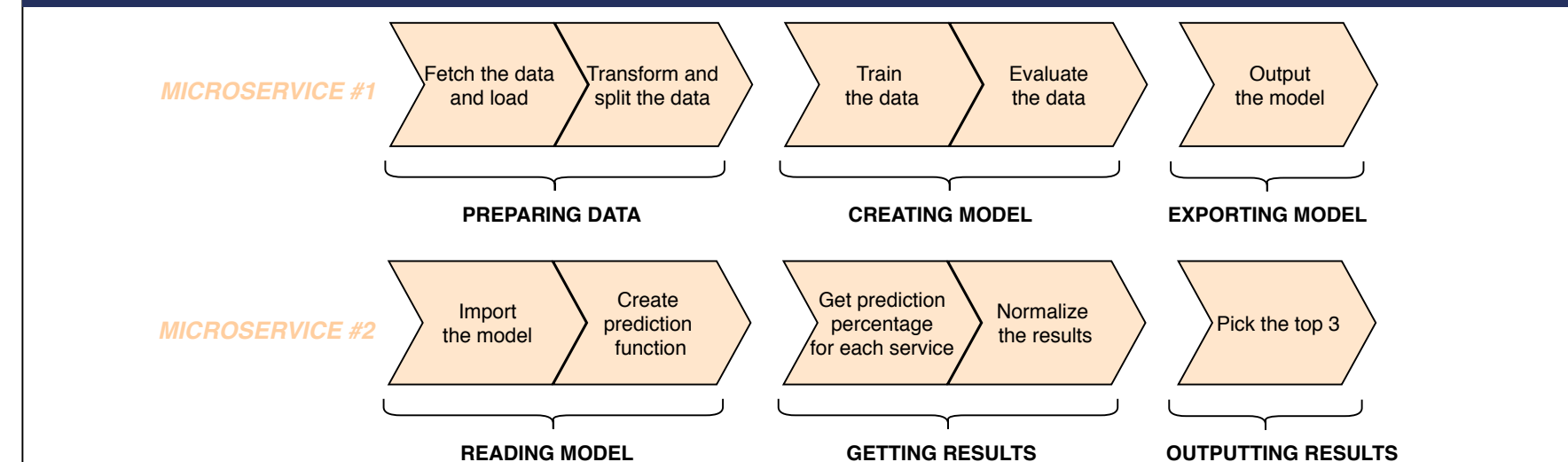
System Design



Snapshots



Machine Learning



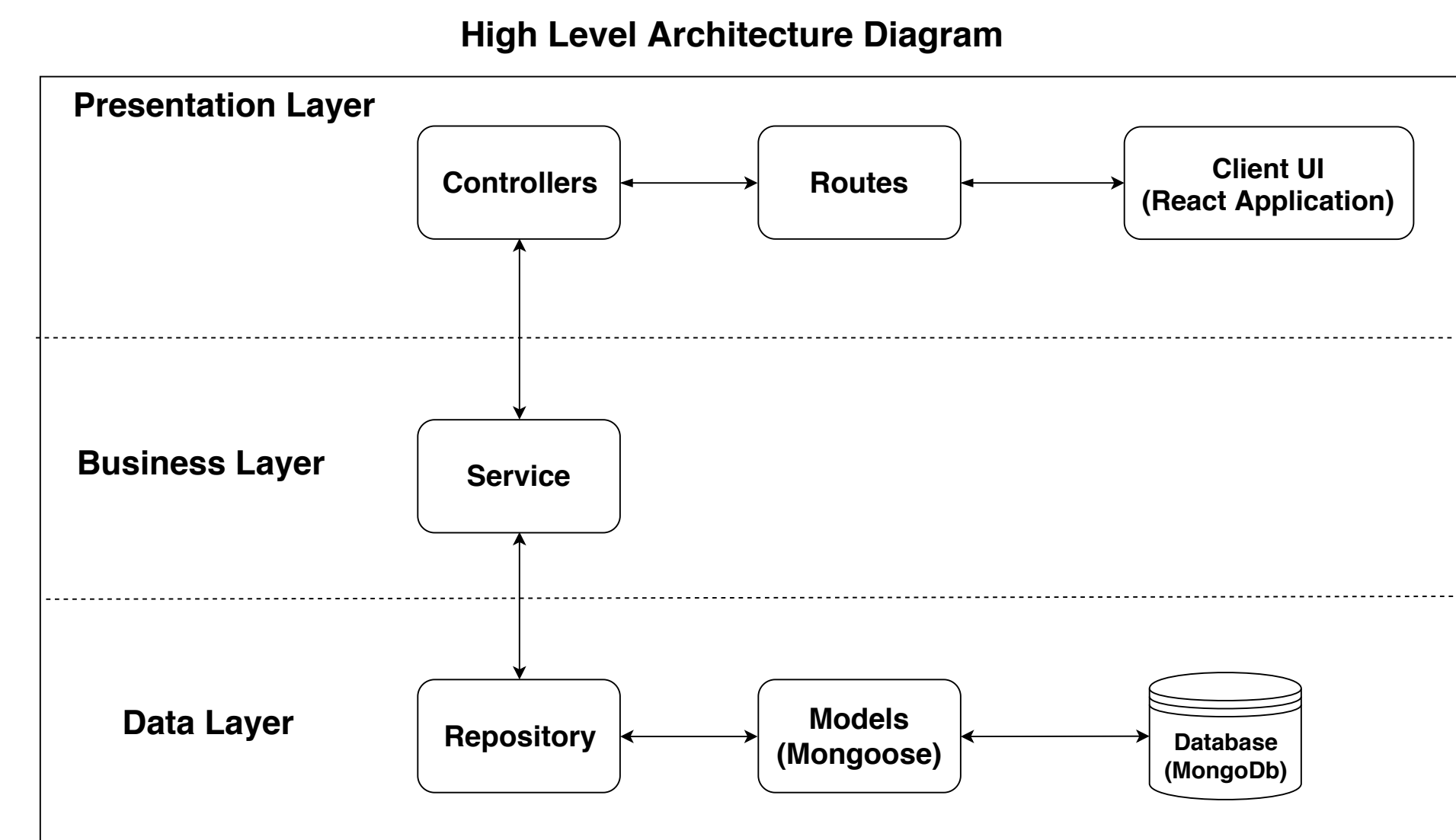
Safety

Many times organizations take advantages of migrants, this product will allow a systematic monitoring of organizations that get flagged. These organizations will not be tolerated and will be removed quickly. Also, users that use the application for illegal purposes will be banned immediately. MigrantHub uses best practices to secure api endpoints, routes and database, which will prevent hacking.

Privacy

To prevent data being acquired by unauthorized users and used in ways that can harm the migrants we don't expose a user's data to other users. Furthermore, all sensitive information is kept private from unauthorized users and endpoints/requests to access sensitive information are protected using authentication and validation.

Architectural Design



What We Learned

- Our website provides a sense of security and compassion for newcomers as they are welcomed with many services specific to their wants and needs.
- Many immigrants suffer from lack of information about Montreal laws and regulations.
- Many services offered are sometimes mandatory or provide a huge advantage for newcomers.
- Constant communication with the client/stakeholder is very important as it is very easy to deviate from the end goal in such an open-ended project. Before deploying to real users, our stakeholder is the main source of feedback as he personally knows the users.
- Getting user feedback from testers allowed us to improve aspects of the user experience that we couldn't see due to our constant exposure to our application.
- Planning for current, but also future iterations is vital to a software team to stay on a productive path. Planning for later iterations allowed us to all be on the same page on where it is we are going and overcome potential roadblocks we might face ahead of time.