Optimizing business hours

We will be using a live video feed of the bank's branch office which will be analyzed by an ML model. This model will be logging entries, exits and current amount of people inside the office. This data will be later used to analyze optimal business hours for the office.
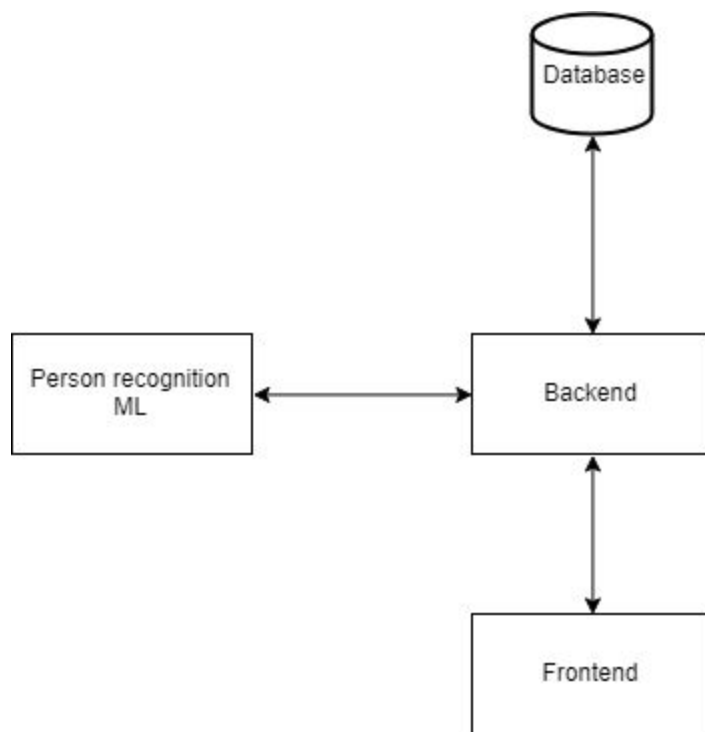
Bank manager will be able to track the amount of visitors in his branch office using a simple Web Application. This application will gather data from ML Model which will be responsible for analyzing video feeds from the office and creating a report of people entering and exiting the office. The model will log times of leaving and entering the office, total amount of people who visited the office on the certain day while taking multiple parameters such as type of day, holidays, celebrations etc. to consideration.

Technologies:
-MSSQL Database
-.NET Core Backend
-Angular front-end(TBD)

Architecture:


```
                        ┌──────────┐
                        │ Database │
                        └────┬─────┘
                             ↕
┌──────────────────┐    ┌────────┐
│ Person recognition│ ←→ │ Backend│
│        ML         │    └───┬────┘
└──────────────────┘        ↕
                        ┌─────────┐
                        │ Frontend│
                        └─────────┘
```

UI Wireframe

LOGO   AppName

| John Doe ▼ |

Home Page
Settings
Predictions
Historical Data

About

| Total Customers ▼ | | 12 May 2016 📅 |

Monday   158
Tuesday   123
Wednesday   148
Thursday   165
Friday   132
Saturday   152
Sunday   245