
Safe Travels
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Value Proposition

Safe Travels is a travel advisory website that provides the latest updates for visitors to a specific destination in the US.

The target market is for people who want to travel, but are not happy with the false information spreading across the media. During uncertain times like this, many people are stressed from staying home too long, but at the same time, still unsure about travelling due to the unbalanced health precautions across the nation. The advisory is based on Covid-19 safety rating system by city and state, and travel recommendations and tips by other users.

We want to provide our users with a one-stop place for reliable information on which location in the US is best for travelling, based on vaccination rate, mask mandate, and other Covid related policies.

Features

Initial Planned Features	Achieved Features
● User Profiles ○ User-generated info (allow users to add to datasets) ● State Profiles ○ Covid-19 cases and hospitalizations ○ Vaccination Rates ● Advanced Features ○ Search by criteria [city, state] ○ Implement a map ○ Charts to display info ○	● User Profile ○ Create and delete an account ○ Update password, email ● State Profile ○ Safety Rating ● US Travel Statistics (by state) ● County Profile ● City Profile ● Mask-Use (by county) ● Policy Information (by county) ● Vaccination rates (by county) ● Advanced Features ○ Search by “location” ○ User wishlist ○ User-generated reviews

Initial Planned Features

- **User features:**
  - Profiles
  - Travel Data
  - User generated information
- **Advanced Features:**
  - Searching
  - Filtering

Achieved Features

- **User features:**
  - Profiles
  - Travel Data
  - User-generated information
- **Advanced Features**
  - Searching
  - Interactive Map
  - Charts

UML : PM2

Team Bigfoot Is Real
PM 2
Members:
Steven Fountain
Joffrey Inocencio
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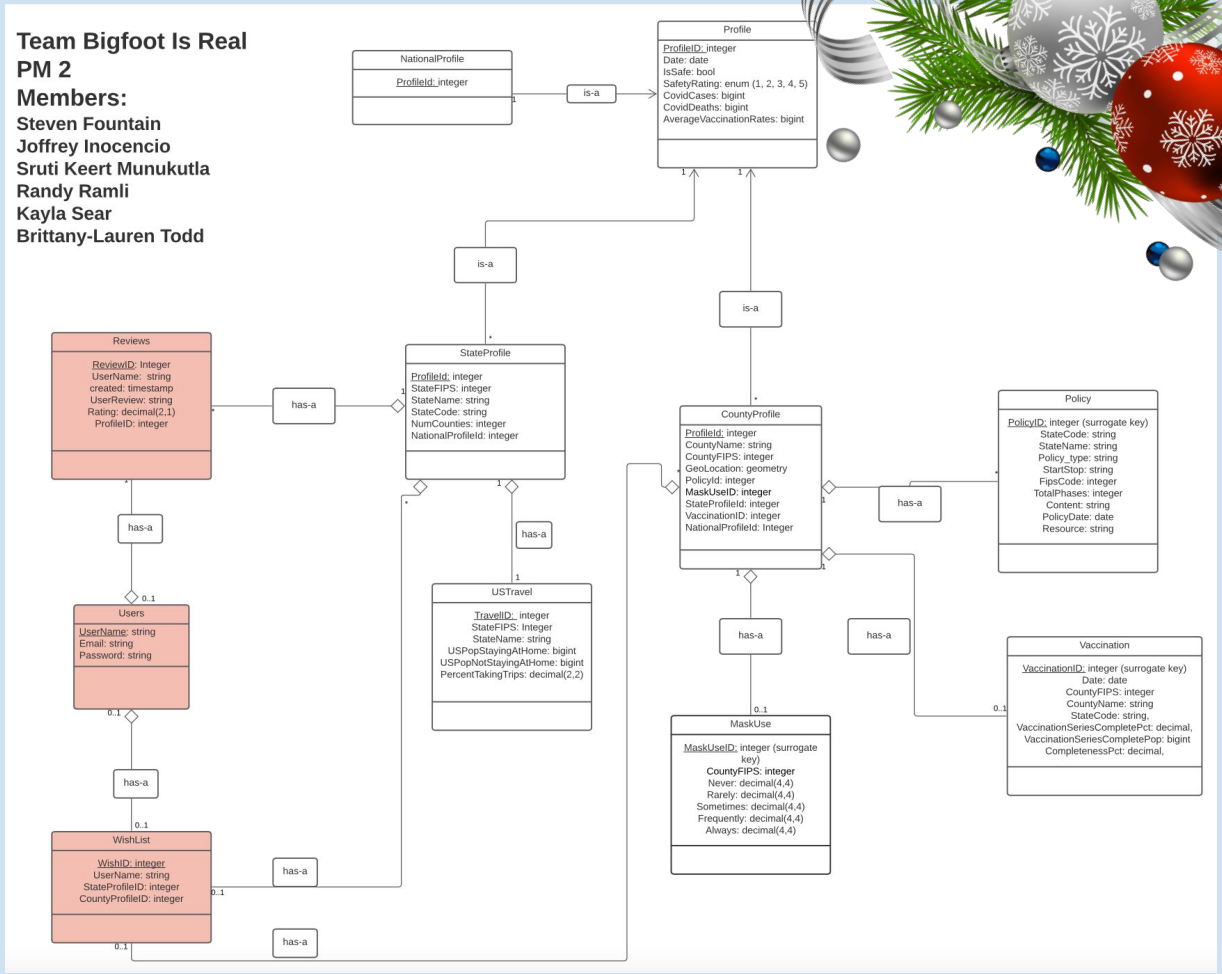
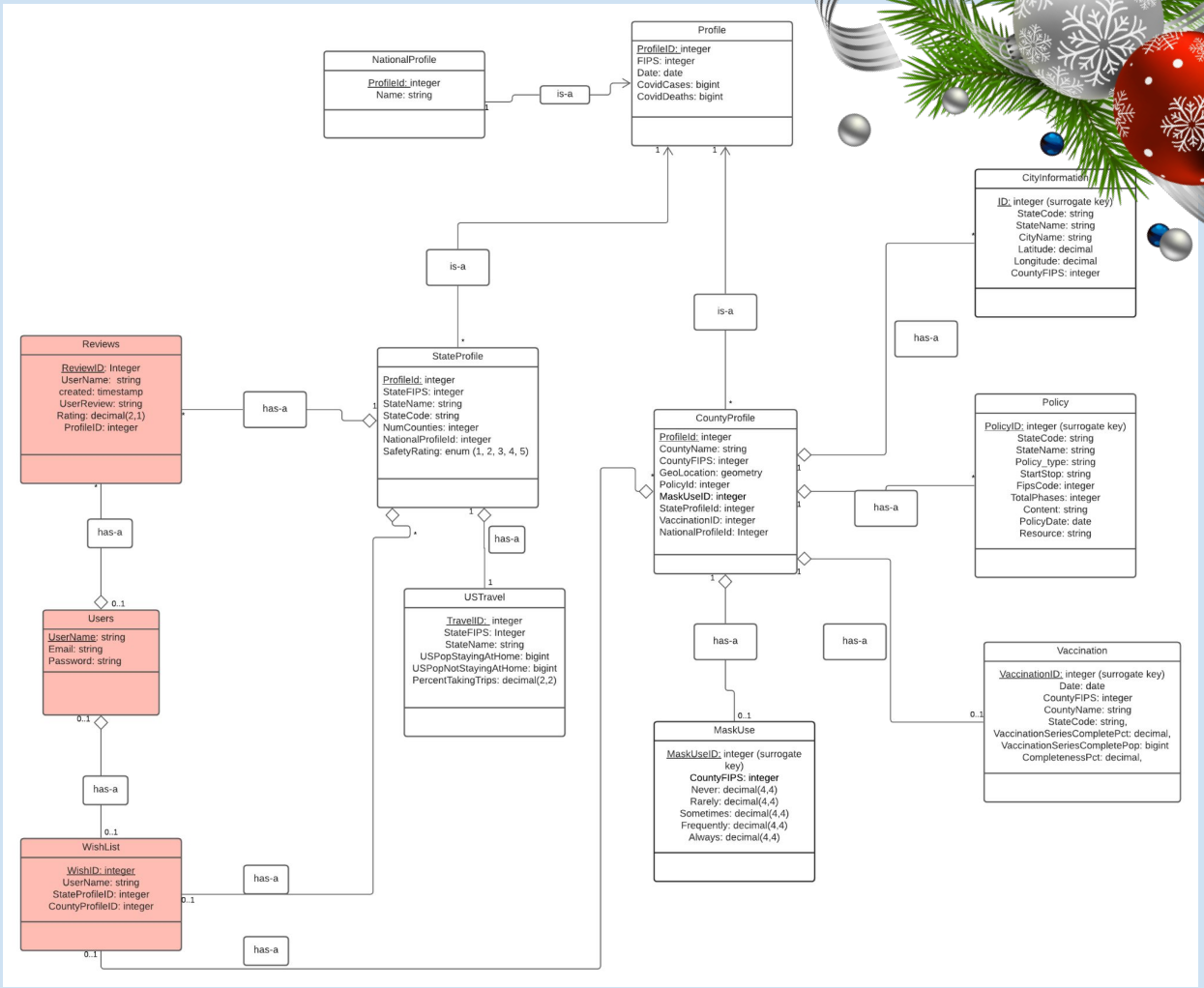


UML: Final


NationalProfile
ProfileId: integer
Name: string
is-a
Profile
ProfileID: integer
FIPS: integer
Date: date
CovidCases: bigint
CovidDeaths: bigint
CityInformation
ID: integer (surrogate key)
StateCode: string
StateName: string
CityName: string
Latitude: decimal
Longitude: decimal
CountyFIPS: integer
is-a
is-a
has-a
Reviews
ReviewID: Integer
UserName: string
created: timestamp
UserReview: string
Rating: decimal(2,1)
ProfileID: integer
has-a
StateProfile
ProfileId: integer
StateFIPS: integer
StateName: string
StateCode: string
NumCounties: integer
NationalProfileId: integer
SafetyRating: enum (1, 2, 3, 4, 5)
CountyProfile
ProfileId: integer
CountyName: string
CountyFIPS: integer
GeoLocation: geometry
PolicyId: integer
MaskUseID: integer
StateProfileId: integer
VaccinationID: integer
NationalProfileId: Integer
Policy
PolicyID: integer (surrogate key)
StateCode: string
StateName: string
Policy_type: string
StartStop: string
FipsCode: integer
TotalPhases: integer
Content: string
PolicyDate: date
Resource: string
has-a
has-a
has-a
Users
UserName: string
Email: string
Password: string
USTravel
TravelID: integer
StateFIPS: Integer
StateName: string
USPopStayingAtHome: bigint
USPopNotStayingAtHome: bigint
PercentTakingTrips: decimal(2,2)
has-a
has-a
has-a
MaskUse
MaskUseID: integer (surrogate key)
CountyFIPS: integer
Never: decimal(4,4)
Rarely: decimal(4,4)
Sometimes: decimal(4,4)
Frequently: decimal(4,4)
Always: decimal(4,4)
Vaccination
VaccinationID: integer (surrogate key)
Date: date
CountyFIPS: integer
CountyName: string
StateCode: string,
VaccinationSeriesCompletePct: decimal,
VaccinationSeriesCompletePop: bigint
CompletenessPct: decimal,
has-a
WishList
WishID: integer
UserName: string
StateProfileID: integer
CountyProfileID: integer
has-a
has-a

Successes

- Plethora of covid information.
- Our initial UML diagram only required a few minor changes as we progressed through our project.
- As a team of 6, it was great to divide up the tasks we were able to successfully complete each milestone
- Interactive map

CDC Centers for Disease Control and Prevention

HHS.gov

Challenges

- Deciding which data sets would be most useful to our users.
- Keeping track of datasets and updating scripts in our workbench
- Creating functions/procedures to create our safety COVID rating for each state
- Deciding how to clean and use policy data.
- Git control and keeping up-to-date with latest version
- System configuration in Intellij


```
package .dal;

<<<<<<< HEAD
=======
import safe.model.Review;

>>>>>>> master
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Timestamp;
import java.util.ArrayList;
import java.util.List;

<<<<<<< HEAD
import safe.model.Review;

=======
>>>>>>> master

/**
 * Data access object (DAO) class to interact with the underlying
 */
public class ReviewsDao {
    protected ConnectionManager connectionManager;
    // Single pattern: instantiation is limited to one object.
```

What we would do differently / Next Steps

- We would try out a different front-end framework or stack such as using Spring Boot.
- Instead of using a snapshot of data (October 12th, 2021), we would try to incorporate live COVID statistics so that our data is up to date.
- We would also add more visual data representations like charts and graphs to display the data to make it more engaging
- Adding authentication and privacy preserving mechanism

Product Demo

Data Sources

- Covid-19 State and County Policy Orders
  - https://catalog.data.gov/dataset/covid-19-state-and-county-policy-orders-9408a
- United States Covid 19 Cases and Deaths By State
  - https://catalog.data.gov/dataset/united-states-covid-19-cases-and-deaths-by-state-over-time
- Various datasets, masking
  - https://github.com/nytimes/covid-19-data
- Transportation Statistics:
  - https://www.bts.gov/daily-travel