***SafetyMiles***

“SafetyMiles” is a web based application software developed to provide a secure journey. Google Maps provides the layout of roads, the locations of cities and towns, state boundaries, geographical features, restaurant reviews and satellite images. Google provides the Street View perspective, allowing us to see houses, storefronts and points of interest from a driver’s point of view. In addition, Google Maps has indoor maps of some airports, museums and other facilities. But what about safety!!

We are concerned about the user's security. Therefore, “SafetyMiles” provides users with possible routes along with police data in order to ensure a safe and comfortable journey. This project only shows the walking distance.

As a user of SafetyMiles, he can navigate from one location to another safely, with an informed understanding of the safety landscape along with route.

**Account Creation and Management**

Initially, a user can create an account on SafetyMiles using his email address or mobile number and a password. After registering, he will receive an email to verify his address, ensuring his account is secured and activated. There will be an option for password recovery. In this system there is an admin to manage various activities. He logs in to the system providing personal information.

**Location and Destination Input**

When planning a trip, the app allows a user to input his current location manually or conveniently detects it automatically. As a user's type of destination, the app offers helpful suggestions, making the process of finding his/her destination faster and reducing the chance of input errors.

**Path Display and Safety Information**

Upon entering the destination, SafetyMiles impresses the user by displaying all possible paths he can take, each with an estimated walking distance. What sets SafetyMiles apart is its display of relevant police data for incidents like snatching, theft, and robbery along or near each path. This data is not only up-to-date but also clearly marked with dates, allowing me to make an informed decision about the safest route to take.

**Submitted Safety Data**

One can find value in the community aspect of SafetyMiles, where he can contribute by reporting new safety incidents or concerns. The process is user-friendly, with a submission form that prompts him for the incident type, location, date, time, and a brief description.The form looks like:

**Safety data submission form:**

| Username/email | Incident type | Location | Date | Time | Brief Description |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Knowing that his report will be verified by an admin before updating the database ensures trust in the accuracy of the information provided on the app. Besides, the admin can input real-time data in the database.

**Admin Verification and Database Update**

It's reassuring to know that admins play a critical role in maintaining the integrity of SafetyMiles. They verify user-submitted reports, ensuring that only authentic safety information updates the paths displayed on the app. This verification process keeps the app reliable and trustworthy. Admin can send alerts or important information to all users, such as updates about new app features or advisories about specific areas based on recent safety data.

**User Feedback Mechanism**

The app values user’s feedback, offering a simple mechanism for him to share his experiences regarding the accuracy of safety data and the overall app experience. Users can rate this app according to its performance out of five (5)stars and can comment also.

**User Dashboard:**

* **Account Management:**
  + View/Edit Profile: Allows users to update their personal information such as name, email, and password.
  + Password Recovery: Option to recover forgotten passwords through email or mobile number verification.
* **Current Location & Destination:**
  + Manual Input: Users can manually input their current location or allow the app to detect it automatically.
  + Destination Input: Provides a search feature for users to input their destination conveniently, with suggestions for faster input and reduced errors.
* **Safety Data Submission Form:**
  + Username/Email: Input field for user identification.
  + Incident Type: Dropdown menu to select the type of incident (snatching, theft, robbery, etc.).
  + Location: Text field for specifying the incident location.
  + Date & Time: Fields to enter the date and time of the incident.
  + Brief Description: Text area for providing additional details about the incident.
* **Route Selection & Safety Info:**
  + Display of Possible Paths: Shows all available routes with estimated walking distances.
  + Safety Information: Alongside each path, displays relevant police data for incidents like snatching, theft, and robbery, marked with dates.
* **Feedback and Rating:**
  + Rating: Allows users to rate the app's performance on a scale of five stars.
  + Comment Section: Enables users to provide detailed feedback and suggestions for improvement.
* **History & Favorites:**
  + History: Records user's past routes and safety information accessed.
  + Favorites: Allows users to bookmark preferred routes for quick access.

**Admin Dashboard:**

* **User Management:**
  + View/Edit Users: Admin can access and manage user accounts, including profile details.
  + Account Verification: Option to verify user accounts to ensure authenticity.
* **Safety Data Verification:**
  + Review Submitted Reports: Admin can verify user-submitted safety incidents before updating the database.
  + Database Update: Ensures only authentic safety information is added to the app.
* **Database Management:**
  + Data Integrity: Admins maintain the integrity of SafetyMiles' database, ensuring accurate and up-to-date information.
  + Regular Updates: Admins can input real-time safety data and keep the database current.
* **Route and Safety Information Management:**
  + Path Updates: Admins manage route options and safety information displayed to users.
  + Ensure Accuracy: Verifies that safety information presented to users is reliable and relevant.
* **Respond to Feedback:**
  + Feedback Review: Admins can review user feedback and respond to concerns or suggestions.
  + Address Issues: Promptly address any issues or complaints raised by users.
* **Send Notifications:**
  + Important Alerts: Admins can send notifications to all users regarding app updates, new features, or safety advisories based on recent data.

Through these features and commitments, SafetyMiles not only enhances user’s safety but also empowers him with the knowledge to make informed decisions about his travel routes. The app stands out as a vital tool for navigating the complexities of urban environments, fostering a sense of community and shared responsibility for road safety.