

Experiment 5	
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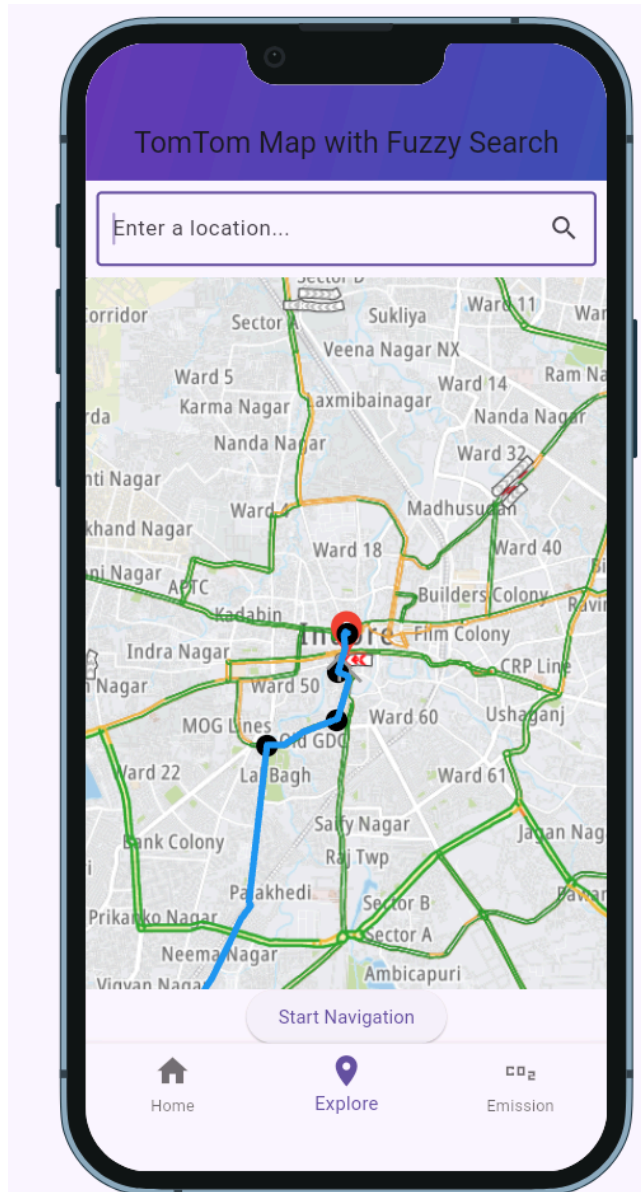
**Aim:** To apply navigation, routing and gestures in Flutter App

**Theory:** Flutter provides essential tools for navigation, routing, and gestures, enabling smooth user interactions and transitions between screens. Navigation in Flutter uses a stack-based system, where screens are pushed and popped using `Navigator.push()` and `Navigator.pop()`. It supports named routes, which improve readability and maintainability in apps with multiple screens. Routing helps manage these transitions efficiently by predefining paths for screen navigation.

Gestures allow users to interact with the app through touch. Flutter's `GestureDetector` widget supports common gestures like tap, double tap, long press, swipe, and drag. These interactions make the app more dynamic and responsive.

By combining navigation with gestures, developers can enhance the user experience—for example, tapping a button to move to a new screen or swiping to delete an item. Overall, mastering navigation, routing, and gestures is key to creating smooth, intuitive, and user-friendly Flutter applications.

### Output:



### Conclusion :-

Flutter simplifies app interaction through effective navigation, routing, and gesture handling. By using navigation and routing, developers can manage screen transitions and data flow between pages efficiently. Gesture detection enhances user experience by enabling interactive touch responses like taps and swipes. Together, these features help create smooth, intuitive, and user-friendly mobile applications.