Sequence Diagram

Actors and participants: User, Admin, Services, API, Authentication, System

1. Enter email and password (User → Authentication)
2. Authenticate result (Authentication → System)
3. Login sucess/Failed (→ User)
4. Gives feedback and rating (User → System)

opt
5. Request for helpline/toll-free and Safety tips (→ System)
6. Gives helpline/toll-free and Safety tips (→ User)

7. Choose Source and Destination (→ Services)

alt [Normal route]
8. Fetch optimal path (Services → API)
9. Give path (API → System)
10. Route with distance & ETA in min (→ User)

alt [Border alert]
11. Sends live location (User → Services)
12. Check safety (Services → API)
13. Gives safety status (API → System)
14. Returns message/alert (→ User)

alt [Emergency services]
15. Give source & destination (User → Services)
16. Fetch services (Services → API)
17. Returns services (API → System)
18. Return service info (→ User)

alt [Flood detection alert]
19. Fetch geospatial/weather info (Services → API)

opt [if original path is unsafe]
20. sends/Generates Danger alert (→ User)
21. Generates alternate path (API → System)
22. Returns alternate Path (→ User)

opt [safe]
23. Shows the original Path (→ User)

24. Updates/manages API (Admin → API)
25. Sends Updated message (API → System)
26. Sends Acknoledgment (→ User)