**Test Case Document: Real-Time Tracking Feature**  
Samrudhi Bhat   
LogiNext - Junior Software Engineer (QA) Applicant  
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Problem Statement:   
  
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Scenario :   
  
Courier company with 1000 agents. Ops Manager assigns orders. Agents see assigned orders, on android or iOS. Agents start the trip. GPS sent to server in realtime. Manager tracks location & progress.  
   
Functional and non-functional test cases for real-time tracking of delivery agents -   
  
Functional test cases :

| Sr. No. | Functional test cases | Expectations |
| --- | --- | --- |
| 1 | Start trip | Assigned orders are visible correctly |
| 2 | GPS location capture | Starts capturing as soon as trip starts & ends as trip ends |
| 3 | Correct order display | Each agent is assigned their own list of orders |
| 4 | Realtime location updates | New location data visible to server & manager |
| 5 | Tracks cross platform | Works on both android and iOS |
| 6 | Network issues | Queue updates and share cache when network restored |
| 7 | Multiple agents visible to manager | Manager sees active agent(s) location correctly |

Non-functional test cases :

| Sr. No. | Non-functional test cases | Expectation |
| --- | --- | --- |
| 1 | Performance & speed | Minimal time lag in periodic location updates to manager |
| 2 | Accuracy | Location accuracy |
| 3 | Scalability | 1000 delivery agents’ real time feed without lag |
| 4 | Security | No data leaks, |
| 5 | Coss platform compatibility | Runs smoothly on Android & iOS |
| 6 | Reliability | No app crashes & updates the location realtime |
| 7 | Usability | Map is clear, zoomable |