Sequence Diagram

Participants: User, RaceDisplayer, MapAPI, WebServer, InformationRequest, DataCollector, Track4RunManager, DBMS

1: getSpecificRun(runAttributes) — User → RaceDisplayer
2: getSpecificRun(runAttributes) — RaceDisplayer → WebServer
3: getSpecificRun(runAttributes) — WebServer → Track4RunManager
4: getRun(attributes) — Track4RunManager → DBMS
5: runEvent — DBMS → Track4RunManager
6: runEvent — Track4RunManager → WebServer
7: runEvent — WebServer → RaceDisplayer
8: runEvent — RaceDisplayer → User
9: displayLiveRun(runID) — User → RaceDisplayer
10: getAPI() — RaceDisplayer → MapAPI
11: API — MapAPI → RaceDisplayer
12: setRunToWatch() — RaceDisplayer → RaceDisplayer
13: getAthletesSecurityNumber() — RaceDisplayer → RaceDisplayer

loop [for each athlete]
14: getLiveLocation(securityNumber) — RaceDisplayer → WebServer
15: getLiveLocation(securityNumber) — WebServer → InformationRequest
16: getLiveLocation(securityNumber) — InformationRequest → DataCollector
17: success — DataCollector → InformationRequest
18: success — InformationRequest → WebServer
19: success — WebServer → RaceDisplayer

loop [until the run ends]
20: getLocation(securityNumber) — DataCollector → DBMS
21: getNewLocation() — DBMS → DBMS
22: location — DBMS → DataCollector
23: provideIndividualInformation(location) — DataCollector → InformationRequest
24: provideIndividualInformation(location) — InformationRequest → WebServer
25: provideIndividualInformation(location) — WebServer → RaceDisplayer
26: success — RaceDisplayer → WebServer
27: success — WebServer → InformationRequest
28: success — InformationRequest → DataCollector
29: updateAthleteLocation() — RaceDisplayer → RaceDisplayer
30: updatedMap — RaceDisplayer → User

31: stopLiveLocation(securityNumber) — RaceDisplayer → WebServer
32: stopLIveLocation(securityNumber) — WebServer → InformationRequest
33: stopLiveLocation(securityNumber) — InformationRequest → DataCollector
34: success — DataCollector → InformationRequest
35: success — InformationRequest → WebServer
36: success — WebServer → RaceDisplayer