1 Geofence Use Case

Description Geofence is the virtual perimeter for a real-world geographic area, according to Wikipedia. In this context, the geofence is the virtual perimeter for when the automatic turn-on feature will be triggered.

Actors User

Preconditions
1. The user has activated the geofence function in his or her smartphone.
2. The smartphone's GPS hardware is activated.
3. The application is running, either in foreground or background.

Basic Flow
1. The user closes in to the virtual perimeter.
2. The smartphone detects the breach of the virtual perimeter.
3. The smartphone sends a request to the system to turn on the coffee machine.
4. The system sends a notification to the smartphone that the coffee machine has been turned on.
5. The smartphone notifies the user that the coffee machine has been turned on.

Alternative Flows 4 a) The system sends a notification that the coffee machine already is on.
   1. The use case ends without any other action.

Postconditions The coffee machine is on.