**Use Case 7: Receive Notifications**

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| Use Case Element | The user of the application receives notifications from the application about services on offer. |
| Use Case Number | 7 |
| Application | The function relates push notification service provider of the application. |
| Use Case Name | Receive Notifications. |
| Use Case Description | A user engaged on the app will receive notifications about services that are available to them via the application. The services that the user received will be optimised based on the user’s past activity with the application. |
| Primary Actor | The user of the application who will receive notifications. |
| Precondition | 1. The user must have access to the internet. |
| Trigger | The user access the application. |
| Basic Flow | 1. The user interacts with the application. 2. The application reads the current GPS co-ordinates of the user. 3. The application sends a query request to the database. 4. The database queries its tables for the user’s stored data on the application. 5. The database returns a collection of the user’s data to the application. 6. The application sends the user’s data to the notification hub. 7. The notification hub creates an abstract push notification using the user’s data. 8. The notification hub sends the push notification to the mobile devices respected notification service. 9. The respected notification service sends the notification to the user. |
| Alternate Flows | 1. The application after receiving the data from the database can notice that the user has chosen to ‘opt-out’ of certain notifications. The application only sends the notification hub data on activities/events that the user has not chosen to ‘opt-out’ of. The notification hub performs its usual operation and the user receives notifications only related to the activities they have not ‘opted-out’ of. 2. The notifications hub is unavailable due to technical issues. Therefore, no notifications are created and sent to the user. |

