**Map API Research and Comparison**

| **Google Maps API** | **Mapbox API** |
| --- | --- |
| 28,500 free monthly users | 25,000 free monthly users |
| More costly above free tier | Lower prices above free tier |
| Geocoding between addresses and coordinates | Geocoding between addresses and coordinates |
| Much easier integration | Steep learning curve |
| Most accurate maps | More customisation |
| More versatile | Better for larger projects |
| Used by Google and Uber | Used by Shopify, Facebook and Snapchat |
| Proprietary source code | Open source SDK |
| Drains battery quicker | Less battery usage |
| Excellent documentation with sample code snippets |  |

**Map API Requirements**

* View map with current location
* Add markers with custom icons/photos to the local map on the device given its coordinates/postcode
* On pressing the marker show the product name and provides a link to the appropriate product page
* Display static map in the product page or a button linking to the map view with the camera focused on the product itself
* *Have a light and dark colour scheme*
* *Allow to change into satellite view*
* *On a transaction being agreed, allow the user to view the detailed location on the map and provide a button to open directions in Google Maps app*

**Google Maps Documentation and Restores**

* SDK for Android Overview - [https://developers.google.com/maps/documentation/android-sdk/overview?\_gl=1\*n79r5l\*\_ga\*NDQ1NjE4OTYzLjE2MzU1OTk5MTk.\*\_ga\_NRWSTWS78N\*MTYzNTU5OTkxOC4xLjEuMTYzNTYwMTgyNS4w&section=start](https://developers.google.com/maps/documentation/android-sdk/overview?_gl=1*n79r5l*_ga*NDQ1NjE4OTYzLjE2MzU1OTk5MTk.*_ga_NRWSTWS78N*MTYzNTU5OTkxOC4xLjEuMTYzNTYwMTgyNS4w&section=start)
* Adding a marker detailed instructions - <https://developers.google.com/maps/documentation/android-sdk/marker>