Introduction

The objective of this article is to establish the fundamental components of a mobile architecture model that enables the development of a production-grade solution for local (Puerto Rico) gas prices and gas station locations. It will establish this model by identifying each component based on the responsibilities of the system. Components will be identified by looking at the basic needs and desired features of the proposed system, from a high-level point of view. The approach is to match the system expected behavior with technologies that enable those functionalities. Finally, it will consider how the technology developed here can be expanded into other areas/solutions.

Problem Statement

As per every application development, this article starts by gathering all the needed capabilities and expected behaviors of the mobile application. This is done by establishing a list of use cases and desired features.

The main activity offers the following GUI interactions:

1. **Ask** - a link related to what is advertised (Fule)
2. **Long Row Click** – showing more detailed information of that gas station and further options.
3. **GPS Icon** – transition to Google Maps to illustrate the gas station.
4. **Drag List Down** – request again the list of gas stations near (in a third Vertical Dots Icon) it present the user an option to logging.
5. **Sort Icon** – it select a criteria for sorting the presented list.

To be able to submit gas prices the user needs to login using its Google account. Once logged in, it can perform a long click over the gas station row for which it wants to provide/update gas prices. On the text input fields, the DADO’s defined prices ranges are shown.

References


