City University of London

MSc in Software Engineering with Cloud Computing

Project Report

2022

SaveMoney.com

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**Declaration**

By submitting this work, I declare that this work is entirely my own except those parts duly identified and referenced in my submission. It complies with any specified word limits and the requirements and regulations detailed in the assessment instructions and any other relevant

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**ABSTRACT**

As we know that the world use to be a better place before, since covid-19 pandemic and Russia- Ukraine war has made it difficult to withstand for majority of the financially middle- and lower-class people of the society. Essential services offered by supermarkets and Petrol stations are witnessing soaring prices, products price increase is also contributing factor to economic crisis and can even hinder both efficiency and services quality if we do nothing to stop it. In order to combat this situation and to contribute to helping society a bit from my side I will in response build this application which other software engineering projects lack. The prospective that both the categories of basic amenities like products at different supermarkets with their price comparison and their details combining with prices at different Petrol stations in addition with queues at both places (supermarkets and petrol stations) will help people in saving money in the time of extreme economic crisis. We consider this novel problem to solve which will benefit everyone who is suffering from cost-of-living crisis and in life in general too. The purpose of this software application is to provide world-class functionality that existing software cannot provide individually due to limited integration with non-domain companies. This application(savemoney.com) will closely work with several open-source APIs (Application Programming Interface) to collect data and display it through the application’s Interface. Application will be built with features like entering approximate number of people at petrol station or supermarket will be taken from user along with satellite images and Global Positioning System (GPS) will be used to extract the traffic through Arduino sensor. Secondly, it will use APIs to get prices and product details.

**Keyword : cost-of-living , Supermarket, Petrol/gas station, Arduino sensor.**