

# Advanced Shopping Assistant

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***October 2017***

The ***Advanced Shopping Assistant***

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Software Requirements Template (Brief)

# Requirements Document

## Revision History

Version	Date	Author(s)	Description
v1.0			Initial version

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## 1 Introduction

### 1.1 Need and Purpose

Things like basic common household groceries can be challenging to find when needed immediately, let alone things that aren't generally sold by every shop, and we end up searching a lot of shops personally for these, in vain. While there exist multiple resources to buy things online, the delivery time taken by these isn't good enough. Small retailers mostly manage their inventories manually, which is generally inefficient. Other problems regarding this are the need to wait in long queues while billing and shopkeepers giving candy instead of change during cash transactions. Hence there is a need for an inexpensive, easy-to-use shopping assistant.

*The Advanced Shopping Assistant* fills this need. It allows the shopkeepers to update and maintain their shop's inventory on its website. Customers can check the availability and cost and order items and pay for them online. It is integrated with Google Maps API to locate the shop that has an item they're looking for.

## **1.2 Intended Audience**

This document is intended for software managers and designers, and for sales and marketing people. Shopkeepers may also read the document.

## **1.3 References**

- <https://getbootstrap.com/>
- <https://bootsnipp.com/>
- PHP and MySQL Web Development (4th Edition) by Luke Welling and Laura Thomson
- <https://developers.google.com/maps/documentation/javascript/adding-a-google-map>
- <https://www.w3schools.com/>

# **2 Description**

## **2.1 Features and Functions**

### **2.1.1 Features**

The Advanced Shopping Assistant can be used by several users at the same time. Users access it via a browser. It is intended for novice users.

### **2.1.2 Functions**

The shopkeeper module handles

1. Managing shop inventory
2. Accepting customer requests
3. Suggesting new products

The customer module handles

1. Item availability
2. Order requests
3. Requests for items that are out of stock.
4. Searching for item availability in nearest shop.

## **2.2 Users**

1. Shop Owners
2. The general public (Customers)

## **2.3 Operating Environment**

### **2.3.1 Hardware**

*The Advanced Shopping Assistant* requires an entry-level PC or a smartphone for smaller general stores. For larger supermarkets, a server class machine is recommended.

### **2.3.2 Software**

The *Advanced Shopping Assistant* server can run on any recent version of Linux and Windows. It requires:

1. Apache 2.4.26
2. MySQL
3. PHP 5

The *Advanced Shopping Assistant* user-interface works with any of the following browsers on any hardware and OS:

1. Firefox
2. Microsoft Edge
3. Chrome
4. Safari

Higher versions of these browsers are likely to work better but cannot be guaranteed.