Vendomatic Project
Vision
Version 1.2

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Revision History

Version	Description	Author	Date
0.1	● Draft	Kadir Kılıçoğlu	2023-03-20
0.2	● Review ● Extend needs section	Tuğçe Sözer	2023-03-21
0.3	● Review ● Extend stakeholder and user environment sections	Ezgi Özkan	2023-03-21
1.0	● Polish and publish	Ezgi Özkan Kadir Kılıçoğlu Tuğçe Sözer	2023-03-22
1.1	● Updates regarding feedbacks and review	Ezgi Özkan Kadir Kılıçoğlu Tuğçe Sözer	2023-03-24
1.2	● Publish for review	Ezgi Özkan Kadir Kılıçoğlu Tuğçe Sözer	2023-04-02

Table of Contents

1. Introduction

1.1. Purpose

The purpose of the Vendomatic project is to develop a comprehensive software application that aims to provide users with a convenient and efficient vending experience. Our key objectives are to improve the vending experience for all stakeholders by addressing the limitations of traditional vending machines, to provide a customer-centric experience and the go-to solution for the vending industry.

Our primary stakeholders are vending machine owners, vending machine users, vending machine operators, our developers, business analysts, QA team, marketing team and our project manager. Our main challenge will be to ensure that the new platform integrates smoothly with the vending machines and meets the needs of all stakeholders.

1.2. Scope

The Vendomatic project includes the development of a new software application that will enable vending machine users to easily find nearby vending machines, view product stock status and make purchases on their mobile devices.

Furthermore, vending machine owners can remotely manage their machines, including inventory management, sales reporting, and machine diagnostics, and facilitate the operation and maintenance of vending machines. In addition, the app will allow operators to monitor vending machine conditions, schedule maintenance and refill stocks, reducing downtime and increasing overall efficiency.

1.3. Definitions, Acronyms and Abbreviations

For a complete list of definitions, acronyms, and abbreviations, see the Glossary document.

2. Positioning

2.1. Problem Statement

Vending machines have been a staple of convenience for decades, providing quick and easy access to food, beverages, and other products. However, traditional vending machines have often been disconnected from the internet, making it difficult for users to find nearby machines and for vending machine owners to manage their inventory and sales remotely. This results in a less than optimal vending experience for all stakeholders involved.

Vending machine users face difficulties in finding nearby vending machines and often have limited visibility into product availability. Vending machine owners face challenges in managing their inventory and sales remotely, resulting in less efficient operations. The impact of these problems is a less than optimal vending experience for users and less efficient operation for vending machine owners.

A successful solution would be a comprehensive software application that provides connectivity, easy discovery of nearby vending machines, remote manageability for vending machine owners, and a mobile application for customers. Such a solution would transform the vending

industry into a more efficient, convenient, and customer-centric experience for all stakeholders involved.

The problem of	Traditional vending machines not being connected to the internet.
Affects	Both users and vending machine owners. Users face difficulties in finding nearby vending machines and often have limited visibility into product availability. Vending machine owners face challenges in managing their inventory and sales remotely, resulting in less efficient operations.
The impact of which is	A less than optimal vending experience for users and less efficient operation for vending machine owners.
A successful solution would be	A comprehensive software application that provides connectivity, easy discovery of nearby vending machines, remote manageability for vending machine owners, and a mobile application for customers. Such a solution would transform the vending industry into a more efficient, convenient, and customer-centric experience for all stakeholders involved.

2.2. Product Position Statement

Vendomatic is a comprehensive software application that addresses the problems of traditional vending machines by providing connectivity, easy discovery of nearby vending machines, remote manageability for vending machine owners, and a mobile application for customers. Vendomatic is the solution that makes vending easier and more efficient for everyone.

For	Everyone
Who	Who wants to use a vending machine and who owns a vending machine
Vendomatic	Is a software application
That	- Provides connectivity to traditional vending machines, - Enables remote management of inventory, sales, and machine diagnostics, - Improves overall operational efficiency, - Enables easy discovery of nearby vending machines, - Provides a mobile application for convenient

	purchasing, ● Enhances overall vending experience for users
Unlike	Traditional vending machines that lack connectivity and remote management capabilities
Our product	● Provides a comprehensive software solution addressing the needs of both vending machine operators and users, ● Offers a mobile application for customers to easily find and purchase from nearby vending machines, ● Utilizes connectivity and remote management for improved operational efficiency, ● Provides real-time data and analytics for better decision-making

3. Stakeholder Descriptions

3.1. Stakeholder Summary

Vendomatic has three primary stakeholders other than the machine itself: customers, vending machine owners, and operators. Customers are looking for a convenient and easy-to-use solution to find vending machines nearby and make purchases, while vending machine owners are looking for an efficient way to manage their machines remotely. Operators are responsible for maintaining and servicing vending machines.

Name	Description	Responsibilities
Owners	Individuals or businesses that own vending machines	● Install Vendomatic software on vending machines ● Monitor and manage inventory, sales, and machine health through the application
Operators	Individuals that operate vending machines	● Schedule maintenance, restocking, and machine servicing ● Receive real-time data and analytics to optimize vending operations
Customers	Individuals who use vending machines	● Use the Vendomatic mobile application to discover nearby vending machines ● View product availability ● Make purchases.
Developers	Team who develops the Vendomatic software application	● Develop, test, and maintain the Vendomatic software application and associated systems ● Ensure the software is secure, scalable,

Name	Description	Responsibilities
		• and reliable • Meet the needs and requirements of all stakeholders involved
Project Manager	Person or team who manages the Vendomatic project	• Oversees the project's planning execution, and delivery • Coordinates between different stakeholders • Manages project resources • Ensures the project is completed within the agreed scope, time, and budget
Business Analysts	Person or team who analyzes business needs and requirements	• Identifies and analyzes the business requirements for Vendomatic • Conducts market research, defines user stories, and translates requirements into technical specifications for the development team • Works with stakeholders to ensure the solution meets their needs and aligns with business objectives
Quality Assurance	Person or team who assures overall product quality in terms of technical and business perspective	• Review technical artifacts • Assure quality on soft artifacts (documentation, design, etc.) • Provide feedback based on reviews
Marketing	Person or team who finds potential customers to sell the Vendomatic product while carrying out the directions on product promotions	• Create and share relevant informative content on websites, blogs, and social media platforms • Set up a booth or demo area to demonstrate the features of Vendomatic to potential customers • Encourage existing customers to refer others to Vendomatic through offering incentives, such as discounts or free upgrades • Partner with industry influencers or experts who can help Vendomatic to reach a wider audience and establish credibility

3.2. User Environment

Customers of Vendomatic are typically people on-the-go who are looking for a quick snack or

beverage. They could be in a variety of environments, such as at work, at school, in a public space, or on the road. Customers are looking for a convenient and easy-to-use solution that allows them to quickly find nearby vending machines, view product availability and make purchases through their mobile devices.

Though, the Vendomatic application will be used by multiple user groups, each with their own specific requirements and constraints. The following factors are relevant to the user environment.

3.2.1. Number of People Involved in Completing the Task

The number of people involved in completing a task varies depending on the user group. For example, vending machine owners/operators may have multiple staff members involved in managing inventory, sales, and maintenance tasks, while customers typically complete tasks independently.

3.2.2. Task Cycle and Time Spent in Each Activity

The length of a task cycle and time spent in each activity also varies depending on the user group. For example, vending machine owners/operators may spend several hours a week managing their machines and analyzing sales data, while customers may complete a purchase within a few minutes. As the Vendomatic application evolves, the task cycle and time spent in each activity may change based on user feedback and feature updates.

3.2.3. Environmental Constraints

Vendomatic is a mobile application, meaning it is designed to be used on-the-go. Customers will use the application while traveling, commuting, or otherwise engaging in outdoor activities. This means the application must be designed to function on different mobile devices, operating systems, and network connections, and must account for factors such as limited screen size and battery life.

3.2.4. System Platforms

The Vendomatic application will be built to run on both iOS and Android platforms, with future support for other operating systems. The application will be optimized to work on different devices, including smartphones and tablets.

3.2.5. Other Applications

The Vendomatic application will need to integrate with other systems, such as payment gateways, inventory management tools, and sales analytics software. Additionally, the application may need to integrate with other vending machine management systems in use by some owners/operators. The Business Analyst will work closely with these stakeholders to understand their needs and ensure that Vendomatic integrates seamlessly with their existing systems.

4. Product Overview

4.1. Needs and Features

Vendomatic needs to provide connectivity to traditional vending machines, allow customers to easily find nearby vending machines, enable vending machine owners to remotely manage their machines, and provide a mobile application for customers to find and purchase products. To meet these needs, Vendomatic will provide the following features:

Need	Priority	Features	Planned Release
Easy discovery of vending machines	High	● Location-based search, ● Map view of nearby vending machines, ● Filter by product type, ● Ratings and reviews	v1.0
Remote manageability for vending machine owners	High	● Inventory management, ● Sales analytics, ● Maintenance alerts, ● Price adjustments	v1.0
Real-time inventory tracking	Medium	● Automated inventory tracking, ● Low inventory alerts, ● Restocking suggestions	v1.0
Mobile payment options	High	● Support for multiple payment gateways, ● Secure payment processing, ● Transaction history	v2.0
Marketing and promotional features	Medium	● Coupons and discounts, ● Loyalty rewards, ● Product recommendations, ● Advertisements	v2.0
Social sharing and user engagement	Medium	● Social media integration, ● User reviews and ratings, ● Interactive product demos	v2.0
Multi-platform support	Low	● Integration with other vending machine management systems, ● Web-based interface, ● Wearable device support	v3.0

The Project Manager will work with the development team to ensure that these features are delivered on time and within budget.

5. Other Product Requirements

Category	Priority	Description	Planned Release
Mobile Platform Requirements	High	Support for iOS and Android mobile platforms.	v1.0
Performance Requirements	High	Fast and reliable data processing and retrieval. Minimal downtime and high availability.	v1.0
Documentation Requirements	Low	User manuals, online help, and installation guides. Labeling and packaging requirements.	v1.1
Standards	High	Compliance with industry standards for payment processing and data security.	v2.0

Any changes to these requirements may impact the vision document and will need to be carefully reviewed by the Project Manager and the Business Analyst to ensure that they align with the overall goals and objectives of the project.