2022

Software Requirement

Specifications Document

Book IT

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# Introduction

## Purpose

The Software Requirement Specification Document is created with the objective of comprehensively documenting the requirements and specifications for a blockchain-based online bus ticketing system, focusing on improving user experience and security. The system empowers users to search for buses based on location, date, time, and type, allowing them to reserve seats, select preferred payment methods, and save their preferences for future bookings. It enhances the customer experience through features like loyalty programs, group booking discounts, and vacation packages. Blockchain integration ensures secure transactions, while real-time bus tracking and performance evaluations aid decision-making. Automated confirmation calls and 24/7 customer support instill user confidence. This project aims to deliver a robust, user-friendly, and secure platform by delving into blockchain technology, software development, and the intricacies of the travel industry.

## Document Conventions

The Software Requirement Specification document is written in Calibri (Body) font of size 11 and Times new Roman font of size 20 for Headings. Each functional requirement has its own priority according to its priority mentioned.

## Project Scope

The scope of the system aims to offer a secure, transparent, and efficient way to book bus tickets. By implementing blockchain technology, it ensures the integrity of transactions and enhances the overall user experience.

## References

The Software Requirement Specification template that is used in building the document is referenced as fallowing:

* ISO/IEC/IEEE 2011
* Robertson and Robertson 2013.

# Over-All Description

## Product Perspective

We're creating a new way to buy bus tickets online that's safer and more convenient. The old way had problems like fraud and was not very user-friendly. Our new system will let you book tickets easily, choose your seat, and pay the way you prefer. It will also use special technology called blockchain to make transactions secure, and you'll be able to track your bus in real-time. This project is all about making bus ticketing easier and safer for both passengers and bus companies.

## User Classes and Characteristics

The user of the system is anyone that has a device and internet connection. The user just has to be familiar enough to use the system in his/her device. The one who wants to book the ticket is the main user class of this system.

## Operating Environment

# SYSTEM FEATURES

# DATA REQUIREMENTS

# External Interface Requirements

# Quality attributes

# Internationalization and localization requirements

# Non-Functional Requirements