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FlixBus Vision

Version 1.0

Revision History

Date	Version	Description	Author
12/03/2019	1.0	Initial Project Statement	Paul Linca

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Vision

1. Introduction

With international travel becoming more and more popular, especially amongst the younger population, the accent has been shifted to "cheaper" rather than "more comfortable". That being said, people started opting for the bus as a means of traveling but the problem is that the approach to finding and buying the right ticket is a tedious and complicated process. Thus, a platform that makes this process simpler and more enjoyable must be introduced. This document will describe the solution I proposed to the problem, what should be implemented, needed clarifications and why this platform is the way to go.

1.1 Purpose

FlixBus is meant to provide the travel-loving population with a method of ticket buying that is faster, more convenient and intuitive. The goal is to help people find cheap bus tickets and to relieve them of having to physically go to the ticket counter, argue with the clerk, get tricked into buying the more profitable option for the company or even losing the bus because of long queues. Hence, a database of all the buses and their routes must be created. The need for a physical ticket is obsolete and they will be replaced with unique codes provided to the user via email. Finally, every user will be able to keep tabs of their purchase history and rate their overall experience.

1.2 Scope

FlixBus will have the following features:

- User Authentication (Register + Login).
- View all buses + routes.
- View bus companies and their ratings.
- Search buses by origin and/or destination and see ordered list by price.
- Create new ticket purchase.
- A unique ID of the purchase will be sent via email to the customer after the transaction is finished.
- See purchase history.
- See ticket details.
- Delete or update ticket purchase.
- Rate purchase.

The payment and email sending implementations are not mandatory for this project.

1.3 Definitions, Acronyms, and Abbreviations

Term	Definition
ID	Identification number that the purchase will be assigned in order to be distinguished from other similar purchases and that the ticket inspector can use to check if the ticket is valid.
Purchase history	A list of the ticket purchases that the user has made that is ordered by time. Here the user will be also be able to rate them.
Rate purchase	The user will be able to rate the overall experience that the purchase has resulted in. The rating system will be chosen by the programmer (5 stars, 1-10 grading, etc.)

1.4 References

- Project_UseCaseModel_PurchaseTicket
- Project_UseCaseModel_RatePurchase
- Project_SupplementarySpecification
- Project_Analysis_and_Design_Document

1.5 Overview

The following sections of the document will describe the product positioning in the market. We will then continue by describing the involved stakeholders, the end users, the end user environment and the product hardware and software requirements.

2. Positioning

2.1 Problem Statement

The problem of	Purchasing cheap bus tickets
affects	People that need to travel within a budget
the impact of which is	Time wasted going to the ticket venue and being scammed by the bus companies' greedy agenda.
a successful solution would be	An online platform that encapsulates all bus routes and in which users can choose and compare their alternatives.

2.2 Product Position Statement

For	Cluj – Napoca's bus terminal
Who	Needs an innovative ticket purchasing system
FlixBus	Is a bus ticket booking system
That	Lists all the options and allows the user make online purchases
Unlike	The old physical ticket and phone call booking systems: Autogari.ro.
Our product	▪ Eliminates physical tickets. ▪ Relieves users of wasting time at the ticket counter. ▪ Reduces possibilities of losing the bus.

3. Stakeholder and User Descriptions

3.1 Stakeholder Summary

Name	Description	Responsibilities
City Mayor	Elected by the citizens to represent and server their interests. Is interested to provide solution to bus travel optimization.	Approves funding.
Bus terminal ticket clerk.	The current system will take away his/her job.	Will try to stop the project if possible.
System Administrator	The person in charge with maintaining the system after implementation.	Ensures system is maintainable. Updates the system database.
Ticket inspector.	Is in charge of ensuring that every bus traveler has a valid ticket.	Uses the system to check the validity of the ticket via the unique ID.
Cashier	Receives payments for parking spot rent.	Wants to confirm payments in the system.
Implementation Team	The team developing the project. (That is you)	Provide a clean implementation with minimum effort.

3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Traveler	The user that purchases the ticket.	Searches for desired bus. Makes ticket purchase. Sees purchase history. Rates purchase. Sees company ranking. Deletes/Updates ticket purchase.	He is a direct user
Ticket inspector	The person in charge of checking the validity of the tickets.	Sees all valid tickets. Can search a ticket purchase by ID.	He is a direct user

3.3 User Environment

Traveler

The traveler expects to be presented with all possible busses + routes and purchase the desired ticket from his personal computer at home, through an intuitive platform, in a stress-free manner.

Ticket inspector

The ticket inspector is provided a way to check the validity of the traveler's ticket that avoids the possibility. being deceived by a counterfeited ticket.

4. Product Requirements

For the travelers, the product requires first of all a stable internet connection, a computer with at least 8 GB RAM, Dual Core processor, one monitor, mouse and keyboard.

For the ticket inspector, the product requires either a phone or tablet that can access the platform's purchases database.

The product must integrate with the bus terminal's payment system.