UABikes
Vision Document

Version 1.0

Revision History

Date	Version	Description	Author
01.10.2022	1.0	Inicial Version	Florin Sofinet

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Vision

1.   Introduction

This document is used to collect, analyze and define high-level needs and features of the *UABikes* application. It focuses on the requirements needed by the stakeholders to develop the application that will enable the bicycle workshop to have access to a wider market. The details of how *UABikes* fulfils these needs are detailed in the use-case and supplementary specifications.

1.1   Purpose

The purpose of this document is to define a web application for UABicycle Workshop where it makes available the products of the shop to the market in a wider area using the internet.

1.2   Scope

This document vision is part of the implementation of Practical Case 1, in the context of the curricular unit Software Engineering, from the Master in Informatics and Computer Engineering at DEETC at ISEL.

1.3   Definitions, Acronyms and Abbreviations

UAB – UABikes

BU – Basic User

Admin - Admnistrator

1.4   References

Documentação de apoio à unidade curricular Engenharia de Software

Luís Morgado, ISEL-DEETC, 1998-2008.

Software Engineering: a Practitioner's Approach

Roger Pressman, McGraw-Hill, 2001.

Rational Unified Process Version 5.5

Rational Corporation, 2003-2007.

1.5   Overview

The document contains the following topics:

1. Introduction

2. Description of the problem and presentation of the product

3. Participants and usage

4. Overview of the product

5-10. Describes the requirements and restrictions of the product

11. Global state of the solution presented.

2. Positioning

2.1 Business Opportunity

A workshop that builds bicycles wants to advertise and sell or rent in a broader area the product that it produces.

The bicycle workshop is known only in the town and it doesn't have much advertisement and access to market in the internet. Only the people in the town have knowledge of the bicycles.

The proposed solution to the client will bring access to the bicycles produced with all the information related to the internet through a web application where the customers can view, buy and rent the bicycles.

2.2 Problem Statement

The problem of	Not having a platform/application to sale bicycles
affects	Sales of the workshop
The impact of which is	Smaller revenue and slow growth of sales
A successful solution would	Having an application available on the internet where potential customers can easily view and rent or buy the bicycles.

2.3 Product Position Statement

For	Public
Who	Likes, needs bicycles
The (product name)	UABikes
That	Provides easier access to potential clients
Unlike	Selling only locally at the shop
Our product	Will allow people to view and buy or rent much easier from anyplace through a web application.

3. Stakeholder and User Descriptions

3.1 Market Demographics

There is no information available.

3.2 Stakeholder Summary

Name	Represents	Role
Alex Wolfsbrich – CEO Bicycle Workshop	Owner of the workshop.	Responsible for project funding and monitors overall progress of the application.

3.3 User Summary

Name	Description	Stakeholder
Administrator – Andrew Max	Administration of all the data in the system.	Self
Manager - Karina Muller, Cristina Schmidt	Administration of bicycles.	Self
Basic user – Any person	Can view,rent or buy bicycles.	Self

3.4 User environment

The UABikes application will be working on any operating system and can be accessed from anywhere through internet. The only requirement is to have a browser installed on it. This can be a phone, tablet or computer.

3.5 Stakeholder Profiles

3.5.1 Bycicle Workshop CEO

Representative	Alex Wolfsbrich
Description	Owner of the workshop
Type	Understands the business and financial part of the workshop.
Responsibilities	Represents the business, monitors the progress of the project and allocates funds to it.
Success Criteria	Completion of the version 1.0 with approved budget and successfully deploy the application to the internet.
Involvement	Reviewer and requester of the features, Budget approval.
Deliverables	None.
Comments / Issues	None.

3.6 User Profiles

3.6.1 Administrator

Representative	Andrew Max
Description	User
Type	Typically a person with knowledge in IT
Responsibilities	Represents IT Department, monitors accounts, ensures that data is not corrupted in the system and everything works as expected. Updates anything needed if some issue occurs.
Success Criteria	Success is when the administrator using the system can solve issues that managers, ,basic users or application have.
Involvement	Project reviewer and IT ideas/solutions.
Deliverables	None.
Comments / Issues	None.

3.6.2 Manager

Representative	Karina Muller, Cristina Schmidt
Description	User
Type	Typically sales and marketing persons.
Responsibilities	Represents the marketing and sales department. Updates the product on the application according to the requirements of sales and marketing department.
Success Criteria	The manager successfully adds, updates, deletes and reads the information related to the bicycles.
Involvement	Participates to meetings related to the development of product.
Deliverables	None.
Comments / Issues	None.

3.6.3 Basic User

Representative	Clients
Description	User
Type	Typically a normal person that wants to buy a bicycle.
Responsibilities	Represents the customer that views the product on the application. It can acquire it or rent it by creating an account.
Success Criteria	Success is when the basic user is successfully navigating through bicycles page, is able to create an account, select a bicycle and buys it or rents it.
Involvement	This type of user is not involved in the project.
Deliverables	None.
Comments / Issues	None.

4. Product Overview

4.1 Product Perspective

The proposed solution consists in a web application which provides a market platform that will be available on the internet.

The application will have an interface where different types of users interact with it and can do certain actions.

The application restricts those actions for users based on the type they have:

1. Basic user (customer,client):

- can create a basic account

- can authenticate with created account

- can view bicycles

- can rent a bicycles

- can buy a bicycles

2. Manager

- can authenticate with an account created by administrator

- can create, update, read, delete bicycles

3. Administrator

- can create,update,read, delete accounts

- can authenticate

- can create, update, read, delete bicycles

- has full access to the system.

4.2   Summary of Capabilities

Customer Support System

Customer Benefit	Supporting Features
Up to date information on stock and prices of bicycles.	In the view section of bicycles the users can see any information related to bicycles like prices, stock, components, etc.
Easy access to buy or rent bicycles.	In the view section the user can select a bicycles and rent or acquire it based on current stock and price.
Access to the web application from any personal computer	The application is cross-platform available and can be accessed from any computer that contains a browser.

4.3   Cost and Pricing

The cost of development cannot exceed 100.000$ and the cost of hosting cannot exceed 10.000$.

4.4   Licensing and Installation

There are no licensing requirements for V1.0 of the application, as it will be available only to UABikes workshop.

The first version of the application should be available through download on the internet from github and contain a hassle free installation.

5.   Product Features

5.1   Authenticate

Basic users, managers and administrators should provide an ID and password to enter into the application.

5.2   Register accounts

The application should display an option to register for basic users if there is no existing account . For managers the accounts are created by the administrator.

5.3   View, buy and rent bicycles

The application should provide an interface where the users can enter and navigate a list of bicycles, select bicycles and buy or rent them. To view the bicycles should be possible without authenticating. If user decides to acquire or rent a bicycle he should authenticate.

5.4   Create, update, read, delete bicycles

The system should allow a manager or administrator to update any information related to bicycles.

5.5   Create, update, read, delete accounts on the system

The system should allow an administrator to update any information related to accounts and bicycles. The administrator should have full access to the system.

6. Constraints

The final version of the product should be available on any type of operating system that contains a web browser.

7. Quality Ranges

This section defines the quality ranges for performance, robustness, fault tolerance, usability, and similar characteristics for the UABikes application.

Availability: The application should be available at anytime of the day.

Interface: The application should have a user friendly interface.

Maintainability: The application should easily allow maintenance and addition of new features.

Latency: The application should have a low time response when navigating through it.

8. Precedence and Priority

Release of version 1.0 should contain as minimum the following functionalities:

- Registration and authentication of accounts
- View, rent, acquisition of bicycles
- Maintainability of bicycles information by managers
- Maintainability of accounts and issues by an administrator.

9. Other Product Requirements

9.1 Applicable Standards

None.

9.2 System Requirements

The application should run on any system that has a browser installed.

9.3 Performance Requirements

The system on its final version should support at least 1k requests per day and have a low latency on the whole application.

9.4 Environmental Requirements

None.

10. Documentation Requirements

10.1 User Manual

A simple help document that contains information relevant to features and the system should be made available in github.

10.2 Online Help

The application should provide a contact section where it find support line for more information.

10.3 Installation Guides, Configuration, Read Me File

The installation guide should be available on github in the README file. Also the README file should include information regarding current version, features and possible future features.

10.4 Labeling and Packaging

The product should be made available in github by an invitation. The UABikes logo should persist on documents.

11. Appendix 1 - Feature Attributes

The solution is in its preliminary analysis phase, so there is no task detail yet.

11.1 Status

The application will be proposed to the customer.

11.2 Benefit

The application presented is very important for the workshop by significantly increasing the advertisement of the bicycles and potential customers which would increase the growth of the workshop.

11.3 Effort

The effort analysis has not been calculated yet.

11.4 Risk

The risk analysis has not been made yet.

11.5 Stability

The information provided is consistent and follows strictly the requirements of the Stakeholders.

11.6 Target Release

Should be implemented as soon as possible. The time defined by stakeholders is 5 months. The kick of is scheduled for 22.10.2022. The application should provide an interface where the main features are implemented and is ready for testing.

11.7 Assigned To

To be defined.