Software Requirements Specification

*for*

Travel Advisor Platform

**Version** 2.1

**Prepared By** Aya Ahmed

**Creation Date:** 4/12/2022

**Table of Contents**

[**Introduction**](#_heading=h.1fob9te) **3**

[Purpose](#_heading=h.3znysh7) 3

[Document Conventions](#_heading=h.t6dq7lxcetkv) 3

[Intended Audience](#_heading=h.tyjcwt) 3

[Project Scope](#_heading=h.fn467h33ginh) 3

[References](#_heading=h.ko7364pswmva) 3

[**Overall Description**](#_heading=h.4d34og8) **3**

[Product Perspective](#_heading=h.1kma6wxc0rem) 3

[Product Features](#_heading=h.bnj5ye1knl7) 4

[Operating Environment](#_heading=h.4tru62xwewy6) 4

[Design and Implementation Constraints](#_heading=h.f48r5x4hvw3p) 4

[User Documentation](#_heading=h.wkyx09yqzmj1) 4

[Assumptions and Dependencies](#_heading=h.v5d1ovpnyd7j) 4

[**System Features [Functional Requirements]**](#_heading=h.xh7446cgqga6) **5**

[**External Interface Requirements**](#_heading=h.2jxsxqh) **6**

[4.1 User Interfaces](#_heading=h.mwp4ca5sjhf5) 6

[4.2 Hardware Interfaces](#_heading=h.fxsn5oaqnip1) 8

[4.3 Software Interfaces](#_heading=h.neb7ddunpej) 8

[**Nonfunctional Requirements**](#_heading=h.3j2qqm3) **8**

[Performance Requirements](#_heading=h.7y73ceq3xjc2) 8

[Safety Requirements](#_heading=h.56zqu7furf2t) 8

[Security Requirements](#_heading=h.j25u5drdw7uo) 8

[Software Quality Attributes](#_heading=h.nkb8becbynyj) 9

[**Other Requirements**](#_heading=h.12l7m1xziul0) **9**

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Aya | 14/4/2022 | Requirements need more details | 1.0 |
| Ashry | 25/4/2022 | added some issues that need to be fixed | 1.1 |
| Nada | 29/4/2022 | added some issues that need to be fixed | 1.2 |
| Saad | 6/5/2022 | First edits on Amr’s comments | 1.3 |
| Ashry | 14/5/2022 | Updating requirement | 1.4 |
| Ashry | 17/5/2022 | Updating requirement according to customer changes | 2.0 |
| Osama | 19/5/2022 | Updating requirement | 2.1 |

# Introduction

## Purpose

The purpose of this document is to present a detailed description of the Travel Advisor System which will guide the user of the system to view and travel to different destinations. It will explain the features of the system, interfaces of the system, what the system will do, and the constraints under which it must operate.

This is a 1.00 version of the system

## Document Conventions

NA

## Intended Audience

This document is intended for both the stakeholders and the developers of the system.

## Project Scope

The Travel Advisor System is a web-based application for managing Tourism that helps the customers to view various places along with the different packages available with the reservations.

This project also covers various features like online signup of the users, adding details of the tours, and their package information by the administrator of the website.

## References

* User requirements

# Overall Description

## Product Perspective

Travel Advisor Web Application is a new self-contained shell that covers all the major aspects of the computerization of a tourism agency. Some tasks are described in detail. Users can enjoy sightseeing tours to any of the places, listed in the Agencies Data File. Before that, the Customer has to make the booking by signup in the Data-File and informing.

**Booking:**

Users can also book a flight

**Ratings:**

A rating E-mail is sent to the user after returning from the tour

**Admin:**

Administration, which is responsible for adding destinations, setting a budget.

## Product Features

**Customer:**

The one who uses the system. For which the system is created.

**Administrator:**

The one who operates the system, he can add tours, and their packages records in databases.

## Operating Environment

**Browsers:** Chrome, Firefox, and Edge.

**Operating System:** Win 7, XP, Vista, 8, 10, 11

**Recommended Conf.:** 256MB RAM or higher, 10MB Disk space

**Screen Resolution:** 1024x768

## Design and Implementation Constraints

* *Web-based system*
* *Unique user IDs*
* *Admin feature needed*

## User Documentation

*N/A*

## Assumptions and Dependencies

* we are developing using C#
* Browsers: Chrome, Firefox, and Edge.
* Operating System: Win 7, XP, Vista, 8, 10, 11
* Recommended Conf.: 256MB RAM or higher, 10MB Disk space
* Screen Resolution: 1024x768.
* Images upload can’t be more than 4MB.
* System will work in English only for this version.

# System Features [Functional Requirements]

*The System requirements are:*

This subsection contains the requirements for the Travel Advisor Platform. These requirements are organized by the sequence of the features to best capture the functional requirements of the system. All these functional requirements can be traced using a traceability matrix.

* 1. **Functional Requirements**

**3.1.1 User Requirements**

1. **Login:**

**REQ-01-User\_Login:** The login page should contain two text boxes (the username and password fields) and two buttons (login button and sign-up button) and one check box (Isadmin checkbox).

**REQ-02-User\_Login:**The username field should only accept English letters or a combination of English letters and numbers.

**REQ-03-User\_Login**: password field takes a text of at least eight characters text in English Language and it allows special characters and numbers too.

**REQ-04-User\_Login**: when the user presses the login button it checks the data into the text boxes based on REQ-02-User\_Login & REQ-03-User\_Login then checks if the username and password are already stored in the database then the user is navigated to the user home page*.*

**REQ-05-User\_Login:**if the username or password are not written the message "please fill out this field" should appear and if both username and password are not written based on REQ-02-User\_Login & REQ-03-User\_Login an error message appears with “please insert data based on the required format”.

**REQ-06-User\_Login:**if the username or password is not found in the database an error message appears with the message “Please create an account first and then login”.

**REQ-07-User\_Login:**if the signup button is pressed whatever there are any data in username and password fields the system navigates to the signing up page.

**REQ-08-User\_Login:** The login page should contain two texts in the top right corner (Home and About us).

**REQ-09-User\_Login:** When the user clicks on Home he should be navigated to the home page.

**REQ-10-User\_Login:** When the user clicks on About us the user should be navigated to the bottom of the login page, Then he can see “About us” section.

1. **Sign up:**

**REQ-01-Signup:** The signup page should contain five text fields (Email, Username, Mobile Number, Age, Password, and Confirm Password) and two buttons (Sign up and reset).

**REQ-02-Signup:** All the fields are required to make a valid signing up if any field is left empty a suited error message should appear “Please fill out this field”.

**REQ-03-Signup:** The email field should contain a valid mail format as ([example@example.com](mailto:example@example.com)). It can be a combination of numbers and some special characters \_, # as long as it is acceptable by the format.

**REQ-04-Signup:** Mobile field only accepts 11 numbers and must start with 010, 011, and 012.

**REQ-05-Signup:** username only accepts English characters or combination of English characters and numbers of at least 4 characters and don’t accepts special characters**.**

**REQ-06-Signup:** Age should only accept numbers between 18 and 90.

**REQ-07-Signup:** password & confirm password fields take a text of at least eight characters text contain capital letter, small letter & numbers and it allows special characters too.

**REQ-08-Signup:** the password and confirm password should contain the same text (the text, in this case, is case sensitive).

**REQ-09-Signup:** when the user presses the reset button all the fields should be empty.

**REQ-10-Signup:** when the user presses the sign-up button and the fields apply to requirements (REQ-02-Signup, REQ-03-Signup, REQ-04-Signup, REQ-05-Signup, REQ-06-Signup, REQ-07-Signup, and REQ-08-Signup) the user data should be stored in its place in the database, a unique UID should be generated and the user is navigated to the login page.

**REQ-11-Signup:** when the user presses the sign-up button if any field doesn’t match with the required formats referred to in REQ-10-Signup then an error message should appear with format (<field name> does not apply to the required format).

1. **User Home Page:**

**REQ-01-** **UserHomePage** when the user login successfully he will be directed to the user home page that has a photo gallery of the different tours available should be displayed in the middle of the page.

**REQ-02-** **UserHomePage** there should be a view button in every tour available so the user can view the tour details when clicked the user gets directed to the tour page.

1. **Tour details:**

**REQ-01-Tour:** the tour page should contain two images for the place and a book button and description of the trip (name of the tour, Country name, Flight date, duration, End date, and cost) it also should contain an about us button.

**REQ-02-Tour:** When the user presses the book button a confirmation message appears” Are you sure you want to book?” on the screen if the user press OK user gets redirected to a thank you page.

**REQ-03-Tour:** when the about us button is clicked it navigates to the footer containing the contacts of the company.

**REQ-04-Tour:** The Home button in the navbar must redirect the user-to-user home page.

.

1. **Thank You Page:**

**REQ-01-ThankYou**: the thank you page contains Thank you label and home button.

**REQ-02-ThankYou:** The Thank you label must have an animation when mouse hover on it.

**REQ-03-ThankYou:** The Home button in the navbar must redirect the user home page.

* + 1. **Admin Requirements:**

1. **Login:**

\*\*\*\*\*\*Please note that it is the same login page mentioned above\*\*\*\*\*\*

**REQ-01-Admin\_Login:** The login page should contain two text boxes (the username and password fields) and two buttons (login button and sign-up button) and a checkbox (Admin) describing if it is a user or an admin.

**REQ-02-Admin\_Login:**The username field should only accept English letters or a combination of English letters and numbers.

**REQ-03-Admin\_Login**: password field takes a text of at least eight characters text in English language and it allows special characters and numbers too.

**REQ-04-Admin\_Login:** when the admin fills the username and password fields and the check box is checked by the admin the system will search in the admin table.

**REQ-05-Admin\_Login**: when the admin fills the username field and password field and then presses the login button it checks the data into the text boxes based on REQ-02-Admin\_Login & REQ-03-Admin\_Login and the admin check box is checked then checks if the username and password are already stored in the database then the admin is navigated to the admin home page*.*

**REQ-06-Admin\_Login:**if the username or password are not written the message "please fill out this field" should appear and if based on REQ-02-User\_Login & REQ-03-User\_Login an error message appears with “please insert data based on the required format”.

**REQ-07-Admin\_Login:**if the username or password is not found in the database an error message appears with the message “Please create an account first and then login”.

**REQ-08-Admin\_Login:** Admin cannot register as a normal user.

1. **Add Tour:**

**REQ-01-Add\_Tour:** Add tour page should contain five text boxes (Tour name, Cost, Duration, End date, and flight Date) and one Dropdown list (Country name), and a button (add the first image) that allows the admin to add an image to the trip, another button (add the second image) and submit button.

**REQ-02-Add\_Tour:** the tour name field can only accept English characters and does not accept any special characters or numbers if not message "You can’t Enter space or numbers in Tour Name field" should appear.

**REQ-03-Add\_Tour:** cost field only accepts numbers that at least are 1000 if not error message “Cost field must be numeric and have to be more than or equal 1000.

**REQ-04-Add\_Tour:** The flight date & end date should be written by the admin and can’t set the end date before flight date if not error message will appear contains “You can’t set the end date before the start date or vice versa”.

**REQ-05-Add\_Tour:** Country name is set to Poland by default and the admin should choose any country from the available list.

**REQ-06-Add\_Tour:** when the user press upload image a window is opened so the admin can add the image he wants to the trip if not the error message contains “Errors appear includes “Please Upload your Image” will appear in red color.

**REQ-07-Add\_Tour:** all the fields are required to successfully add a new tour.

**REQ-08-Add\_Tour:** Add second image button allow the user to add an image to the tour showing the tour if not the error message contains “Errors appear includes “Please Upload your Image” will appear in red color.

**REQ-09-Add\_Tour:** When the admin press adds trip button and the data in fields apply to requirements (REQ-02-Add\_Tour, REQ-03-Add\_Tour, REQ-04-Add\_Tour, REQ-05-Add\_Tour, and REQ-06-Add\_Tour) then the data is stored in the database and then be available for users to book it.

1. **Admin home page:**

**REQ-01-AdminHomePage**: when the admin presses the login button it checks the data into the text boxes based on REQ-01-Admin\_Login & check if the IsAdmin check box is checked and then checks if the username and password are already stored in the database then the Admin is navigated to the admin home page*.*

**REQ-02-AdminHomePage**: The admin home page contains admin panel which contain add tour text.

**REQ-03-AdminHomePage**: When the admin click on add tour he should be navigated to add tour page.

**REQ-04-AdminHomePage**: The admin home page contains image slider in the middle of the page .

**REQ-05-AdminHomePage**: The admin home page contains Home text at the top right of the page which navigates to the admin home page if the admin clicks on it.

# External Interface Requirements

## 4.1 User Interfaces

Graphical user interface, application

Description automatically generated

Figure - Wireframe

## 4.2 Hardware Interfaces

* Processor: Pentium IV
* Speed: 2.0 GHz above
* Hard Disk: 40 GB
* RAM: 512 MB
* CD Drive: 48x
* Input devices: Keyboard and mouse
* Monitor: Compatible monitor with 600 x 800 resolutions
* Internet: 100kbps above
* Printer: Any printer compatible with Windows

## 4.3 Software Interfaces

* Operating System: Windows 7 or Higher versions
* Front End: .NET
* Back End: SQL

# Nonfunctional Requirements

## Performance Requirements

The user should be able to log in to the system using high-speed internet. Most of the requests sent to the application should be answered in less than 20 seconds.

## Safety Requirements

NA

## Security Requirements

NA

## Software Quality Attributes

**Portable:**

Our product will be portable to carry and will run on any machine provided it runs a Windows Operating System.

**Transparent:**

Ideally, the user should not be aware that authentication is taking place beyond the requirement to enter a password.

# Other Requirements

NA

**Appendix A: Glossary**

3.1.1.6 UID: user identifier

**Appendix B: Analysis Models**

NA

**Appendix C: Issues List**

NA