UNIVERSIDAD DE GUADALAJARA

CENTRO UNIVERSITARIO DE LOS VALLES

MAESTRÍA EN INGENIERÍA DE SOFTWARE

![Texto

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**Baseline of Paseo Alcalde**

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Administración de la Configuración del Software

Ameca, Jalisco

Version History

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Description | Author |
| 19/08/2022 | 1.0 | Homework | María de los Angeles Martínez Vargas |
| 26/08/2022 | 1.1 | Translated document | María de los Angeles Martínez Vargas |
| 02/09/2022 | 1.2 | Added flowcharts | María de los Angeles Martínez Vargas |

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# Context

Tourism is a social, cultural, and economic phenomenon that involves the movement of people to countries or places outside their usual environment for personal, professional, recreational, or business reasons. However, because of the COVID-19 health crisis, this and other sectors have plunged into a deep economic recession worldwide due to travel restrictions imposed in many parts of the world. Therefore, this problem of tourism can help to be overcome through technology, as a means of the influx of tourism and economic reactivation via applications. It is also important to note that currently, the tourism sector is the fourth source of income in Mexico, this decreases to third place in the world in the reception of tourists in 2020, however, due to the drop in world tourism caused by the pandemic, in the first quarter of 2021, in original figures, a decrease in tourism Gross Domestic Product (GDP) was shown in the order of 23.3% compared to the same quarter of the previous year. While domestic tourism consumption increased a decrease of 23.1% compared to the same quarter of 2020, as can be seen in Figure 1.

Gráfico, Gráfico de barras, Histograma

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1. Quarterly Tourism GDP Physical Volume Indices

# Introduction

Tourism is one of the most important economic activities in the country, therefore, it seeks to increase and update the improvement of tourism products. This work deals with the opportunity to develop an application oriented to tourism in the format of a virtual guide that allows to visit, know and interact with the most relevant places in the center of Guadalajara, focused mainly on the Fray Antonio Alcalde walk-in the center of Guadalajara, providing auditory and visual information to enrich the experiences of travelers.

# Objectives of the System

Develop and implement an application as a virtual tourist guide with geolocation in Guadalajara on the Fray Antonio Alcalde y Barriga promenade, aimed at visitors to the promenade.

* Establish a database containing the multimedia objects of the application.
* Determine the requirements for the operation of the system via the web from the tool and/or working framework.
* Create the graphical interfaces to use.
* Perform tests to identify anomalies in the operation of the software.
* Test the prototype or web application in a real data environment.

# Functional requirements

1. The application can be accessed by:
   1. With log in
      1. Email and password
      2. Google accounts
      3. Facebook account
   2. Without login
      1. Like invited
2. Users are registered in the application database by:
   1. Email and password
   2. Google accounts
   3. Facebook account
3. The users can view and edit your own profile
   1. Name
   2. Email
   3. Password
4. If the user is logged in, they can log out
5. It is recommended that the user activate the location of the device to use functionalities such as
   1. Receive notifications of places of interest near you
   2. Calculate the time to get to a place
   3. Calculate the distance to the point of interest
6. The route map will show the audiovisual resources of the points of interest
   1. Images
   2. Audio
7. The points of interest will show the following information
   1. Images
   2. Texts
   3. How to get there
   4. Time to go

# Non-functional requirements

1. The system is a web platform that works on:
   1. Android devices
   2. IOS devices
2. Users must have a password of at least 8 characters.
3. The application must work on Windows, Linux, MacOS platforms.
4. Images
   1. The recommended image formats are:
      1. JPG
      2. JPEG
      3. PNG
   2. The recommended image size is 560x315 megapixels
5. Audios
   1. The recommended number of words is between 250 and a maximum of 380 words
   2. The recommended duration audio is a maximum of 2 minutes
   3. The recommended format is:
      1. MP3 (MPEG-1 Audio Layer III)
6. Texts
   1. The recommended size of the texts of the application is between 50 and a maximum of 100 words

# Architecture of the system

Diagrama, Esquemático

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1. Flowchart for the basic operation of the application

# Code

# Test design