UNIVERSIDAD DE GUADALAJARA

CENTRO UNIVERSITARIO DE LOS VALLES

MAESTRÍA EN INGENIERÍA DE SOFTWARE

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Descripción generada automáticamente con confianza media](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAACCQAAASsCAYAAABdb8t7AAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8YQUAAAAJcEhZcwAAIdUAACHVAQSctJ0AAP+lSURBVHhe7N0HmCRVuT/gu4Gg98oKuCxsmNBhdlkMgDknBAUVIwbMEdM15yxGQEUxYcKsGBAxggFREQkGFDGjoKgkCQKKoPf/+3qr5z8727s7uzub4H2f53uq6tSpU6GrZ7r7nDrnvwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFg7M0ZHR2/aarXuMI1xi+Hh4a2b8gEAAAAAAACA66AtOp3OhxKnJk6Zpvhyu91e1JQPAAAAAAAAAFwHbdXtdk8aGxv7v+mKTqdzTrvd7jTlAwAAAAAAAADXQdUg4cRqSJDpf9rt9lWZ/0fin2sQvfy1fabVIOEPGiQAAAAAAAAAwHXbeIOExYsXX9LpdF6f+Xsm7rUmke0ekXLOr0YJGiQAAAAAAAAAwLXLrLlz5/7Pdtttt83ESHrF7F6OFfUaJCxevLgaJJzf6XQenLQZaxrDw8M7Ztuzp9ggYcb2229/g8nHWWlZt7LjBAAAAAAAAAA2htHR0T06nc73Er9J/GpC/DpRDQ0GWa5BQrvd3q9JXyMLFy5ckH2cM5UGCcnbyfpfJt/E4/x10n6R6YOSZYtlOQEAAAAAAACAjW5sbOx+7Xb7iFardf9Mb9uPTqdzSuKAJttkG7xBQtbtkmM8K8e7b/8Ys92dst2nMv+oTLdqsgIAAAAAAAAAG1tV8He73Te1Wq2hJqknaccmntwsTrbBGyQMDw/vnDw/W7JkyU5NUpmdtDcn9s/8lsuSAAAAAAAAAIANbu7cuf8zNja2pNPpLK3odrvPSBw6MjIy3GTpybpvJP1ViWoIsLTVanW33377GzSrl2uQMDo6WkMmrLGhoaGdUvbZKWuFBgnz5s377xznaHOMO2cf+2T9LyY2nMi6rRJvT9rzc/w3q7zDw8N1bnObLAAAAAAAAADAhtBut2/X7Xa/kHh/E8d0Op2DFy1aNL/J0pO0T46NjR2b6XuT5wOJD2bbu2TVjMR4g4RML2y1Wgdk3aJqLNA0BphdZQySbW5QeZu4eeLclLFCg4TR0dFbJu0diQ/VMSSOzPrvTDzOm9/85lsk/bXZ7zGJ91e+lHVkpo9vsgAAAAA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**Baseline of Paseo Alcalde**

**PRESENTA**:

María de los Angeles Martínez Vargas

**MAESTRO**:

Dr. Omar Ali Zatarain Durán

**MATERIA**:

Administración de la Configuración del Software

Ameca, Jalisco on November 25th of 2022

**CONTROL DE REVISIÓN DE DOCUMENTOS**

REVISION HISTORY

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

REVIEWERS

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Product or service reviewed | Position | Date |
| Omar Ali Zatarain Durán | Baseline | Client | 16/11/2022 |

ROLES AND RESPONSIBILITIES

|  |  |  |
| --- | --- | --- |
| Name | Designation | Responsibilities |
| María de los Angeles Martínez Vargas | Developer | Design, Document and develop the project |
| Rodolfo Omar Domínguez García | Manager | Advice and monitoring of the project |
| Leonardo Uriel Ulloa Mora | Developer | Develop the project |

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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

Descripción generada automáticamente

Figure 1: Quarterly Tourism GDP Physical Volume

# Problem

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.

* Design and create the graphic interfaces to use.
* Design and implement the user module
* Design and implement the points of interest module.
* Design and implement the multimedia content module of the application.
* Design functionality tests for the developed modules.
* Test the application in a real data environment.

# Requirements

This section, a list of the functional and non-functional requirements of the system.

## Functional requirements

1. Register user by email and password
2. Register user by Google account
3. Register user by Facebook account
4. Access to the system by email and password
5. Access to the system by Google account
6. Access to the system by Facebook account
7. Access to the system without registration in the database
8. Reset User Password
9. Remember user identified in the application
10. View user profile information
11. Update username
12. Update user email
13. Update user password
14. Log out
15. Start route of the route
16. Activate device location
17. Show map of Paseo Alcalde
18. Show map of Paseo Alcalde in full view mode
19. Show map of Paseo Alcalde in satellite view mode
20. Add map zoom in/out functionality
21. Show icons of points of interest
22. Show the category of the routes in the icons
23. Receive notifications of places of interest near the user when the device's location is active
24. Show image when point of interest is selected
25. Show the time to get to a place
26. Show distance to point of interest
27. Show place of interest audio play icon
28. Play POI Audio
29. Filter the places shown on the map
30. Show list of places on the map as a whole
31. Show a text referring to the project
32. Show routes by reference routes, as murals or gastronomy
33. Show list of those involved in the project
34. A history list of visited monuments for each person that uses the application for resolve tourist safety issues.
35. Web version of the system that includes interactive routes with estimated time of the route based on the chosen daytime.

## Non-functional requirements

1. The system must work on Android and iOS devices
2. Users must have a password of at least 8 characters
3. The application must work on Windows, Linux, MacOS platforms
4. Compatible browsers on Android must be Chrome, Edge, Firefox, and Opera
5. Compatible browsers on MacOS and iOS must be Safari and Opera

## Design constraints

1. The recommended image formats are JPG, JPEG and PNG
2. The recommended image size is 560x315 megapixels
3. The recommended size to display in the application texts is between 50 and a maximum of 100 words
4. The recommended number of words in the audios is between 250 and a maximum of 380 words
5. The recommended audio format is MP3 (MPEG-1 Audio Layer III)

# Design of the system

This stage establishes the behavior of the project through the abstraction of the common language. This implies making different types of diagrams that model the operation of the software using a universal standard tool: the Unified Modeling Language (UML). Below is the use case diagram, interaction diagrams, flowcharts, block diagram, and architecture diagram.

## Architecture

Figure 2 shows the mobile application, which is composed from the React-JS tools for coding, Firebase for data storage and map visualization is done with the Leaflet library together with device geolocation. These technologies produce a progressive web application that is compatible with the Android and iOS operating systems. It is important to mention that to access the application on the mobile device, you must have Internet access: Wi-Fi or telephone data.

Diagrama

Descripción generada automáticamente

Figure 2: Architecture diagram

## Use case diagrams

The use case diagram shown in Figure 3 makes it possible to identify the main actors involved in the system, as well as the functions performed by each one.

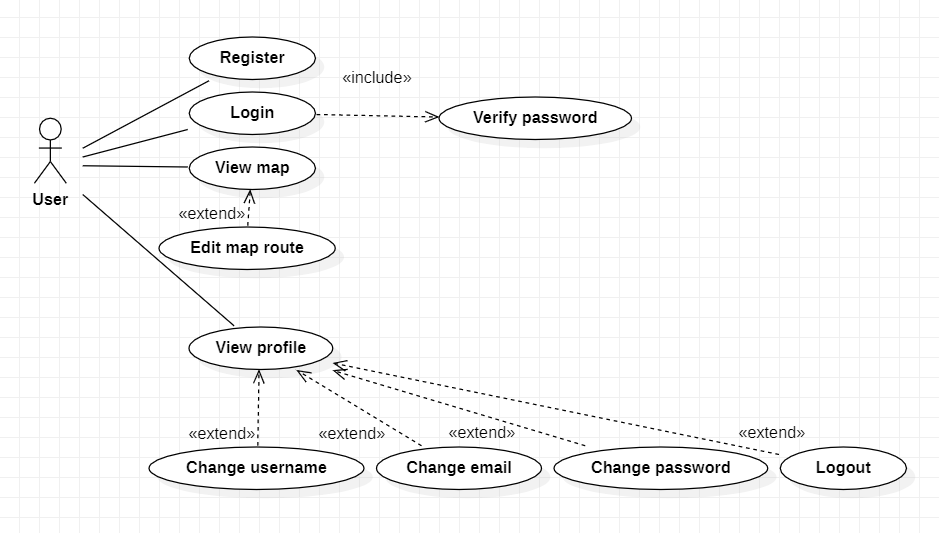


Figure 3: Use case - General Diagram

## Class diagram

The class diagram allows to identify the classes of the system, as well as the attributes and their methods that this system manages 5 classes, as shown in Figure 4.

Texto

Descripción generada automáticamente con confianza baja

Figure 4: General class diagram

**4.4 Implementation diagrams**

Component diagrams represent the relationships between individual system components using a static layout view. They can illustrate aspects of logical and physical modeling. These components are mutually independent modular parts of a system that can be replaced with equivalent components. They are self-contained and encapsulate structures of any degree of complexity. For the development of this application, 5 logical components were identified, of which 3 act as main components and 2 subcomponents, as shown in Figure 5.

Interfaz de usuario gráfica, Aplicación

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Figure 5: Logic component diagram

## Sequence diagrams

Sequence diagrams allow each process and objects that coexist simultaneously to be represented step by step, and the messages that are exchanged between them to execute a function before the lifeline ends, including the processes that are considered most relevant. One of the main processes of the application is the user registration, as its name indicates, this process is used for new users to make use of the application, this process is shown in Figure 6.

Diagrama

Descripción generada automáticamente

Figure 6: Sequence diagram of the user registration process

The Access process is the process in charge of restricting the use of the application, limiting access to those who have a user account, its process is shown in more detail in Figure 7.

Diagrama

Descripción generada automáticamente

Figure 7: Sequence diagram of the system access process

The process of starting the route oversees displaying the information of the route on the map, for which it requests the data from the server and later shows the information on the map. Its process is shown in more detail in Figure 8.

Diagrama

Descripción generada automáticamente

Figure 8: Sequence diagram of the display map process

## Flowchart

Figure 9 shows the general flowchart of the use of the application for the route of Paseo Alcalde.

Diagrama

Descripción generada automáticamente

Figure 9: Flowchart - General diagram

# Construction

The construction stage oversees describing the translation process of the previous diagrams to the software code and created the app views.

1. Understand the operation of the algorithm.
2. Adapt the algorithm to the problems posed.
3. Define the models for the operation of the software.
4. Develop the defined models to source code.
5. Integrate the models developed to work together.
6. Carry out tests to verify the operation of the system.

## Code

This section presents the process of coding the main functions of the project.

Figure 10 shows the code to download the places on the map.

Interfaz de usuario gráfica, Texto

Descripción generada automáticamente

Figure 10: Code to download the places if they are not stored locally

Figure 11 shows the code to download and play the audios shown in the application.

Texto

Descripción generada automáticamente

Figure 11: Code to download the audios shown in the application

Figure 12 shows the code to display places with general place data and audio on the map.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

Figure 12: Code to show the places with the audio on the map

Figure 13 shows the code to calculate the distance between the current position encoded coordinates.

Texto, Aplicación

Descripción generada automáticamente

Figure 13: Code to calculate the distance between the current position encoded coordinates

Figure 14 shows the code to activate the location of the device.

Texto

Descripción generada automáticamente

Figure 14: Code to activate the location of the device

## App views

This section is shown a collection of classes representing the elements in the user interface (all of the things the user can see and respond to on the screen, such as buttons, display boxes, and so forth)

Figure 15 is the first screen of the application, where two buttons are shown; one to log in and one to register in the system.

Interfaz de usuario gráfica, Texto

Descripción generada automáticamente

Figure 15: Starting screen

If we already have an account, the option to log in is selected, where the user is directed to the login screen, which requests both the email address and the password with which he registered in the application, as shown in Figure 16.

**Interfaz de usuario gráfica, Texto, Aplicación, Chat o mensaje de texto

Descripción generada automáticamente**

Figure 16: Login screen

If you do not have an account, the registration option is selected, this screen requests the name, an email address, as well as a password, as shown in Figure 17.

**Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

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Figure 17: Register screen

Once authenticated to the app, the next screen shown is the main menu screen; In this you can directly start the tour, request information from the application or modify the data of the user profile, as shown in Figure 18.

Interfaz de usuario gráfica, Aplicación, Sitio web

Descripción generada automáticamente

Figure 18: Main menu screen

When starting the tour, the screen shows the map of the tour. In this case, it shows the selected places of interest from the paseo Fray Antonio Alcalde in downtown Guadalajara, as shown in Figure 19.

Diagrama

Descripción generada automáticamente con confianza media

Figure 19: Tour screen

# Test

In this stage, it is verified that the software is designed to correctly and adequately respond to the greatest number of possible situations derived from the agreed requirements. The design of these tests is carried out to simulate the conditions of bad, successful, and optimal scenarios to avoid the same risks in the production environment.

## Test design

## Elements used

Table 1: Elements used

|  |  |  |  |
| --- | --- | --- | --- |
| Element | OS | Computer | Description |
| Hardware (MacBook Air 2017) | MacOS Monterey | Processor | i5 5350U |
| RAM | 8 GB |
| Hardware (Desktop Gigabyte) | Windows 11 | Processor | Ryzen 5600X |
| RAM | 32 GB |
| Hardware (Dell G7) | Windows 11 | Processor | i7 8750H |
| RAM | 16 GB |
| Hardware (Smartphone Honor 20) | Android 10 | Processor | Huawei Kirin 980 |
| RAM | 6 GB |
| Software | Windows 11 | Google Chrome | Web navigator |
| Edge |
| MacOS Monterey | Safari |
| Edge |