PROJECT About FaceTime Application

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Abstract

FaceTime Appliction
This study investigates Apple's Face Time app, which is designed for voice and video communication on iOS, iPadOS, and macOS. In addition to analyzing user demands and outlining functional and non-functional requirements, it also compares it to other apps that are similar, such as IMO. The project comprises call process diagrams, user surveys, and application architecture.

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Chapter 1

Introduction

1.1 Overview of Face Time

Face Time is an application that is primarily used on iOS, iPadOS, and macOS devices. It presents a proprietary video and audio calling service developed by Apple. It facilitates users' visual and auditory communication. On the other hand, if an Android or Windows user has the most recent version of Microsoft Edge or Google Chrome, they can join an Apple user's Face Time call.

1.2 Functional Requirements

1.2.1 User Requirements

The application allows the user to communicate with any user from other countries via voice or video calls easily and without the need to hinder.

1.2.2 System Requirements

To use Face Time effectively, the following features and requirements are required:

- **Internet connection:** A stable Wi-Fi or cellular data connection is required.
- **Device compatibility:** The device must meet the minimum system requirements for Face Time, as mentioned earlier.
- **Contacts:** To initiate calls, you need contacts with Face Time-compatible devices or phone numbers/email addresses associated with FaceTime.

1.2.3 Non-Functional Requirements

- **Performance:** The response time should be when the call is received and started promptly, although it should take no more than a few seconds to receive a response. The communication should also be flawless, with clear audio and high-quality video being used.

- **Language compatibility:** Face Time needs to be multilingual, allowing users to utilize it across countries through interfaces tailored to each individual language.

Chapter 2

Application Analysis

2.1 Introduction

Determine the application's purpose, the problem it solves, and what needs it addresses, and present a survey about the application. To see the users' interest. Then we identify similar programs and compare them.

2.2 Questions about the Application

- **Purpose of the Application:** Making phone calls facilitating visual and audio communication.
- **Problems it Solves:** It can make external calls directly.
- **Needs it Addresses:** Face Time is a useful tool for handling the intricate processes that a person must perform in order to communicate with others who are far away from him.

2.3 Survey

Here we present a survey about the Face Time application `https://forms.gle/QDoxCf28use8Y1eU8` and the answers `https://forms.gle/t9C1Q6rAYJUmD4LE9`.

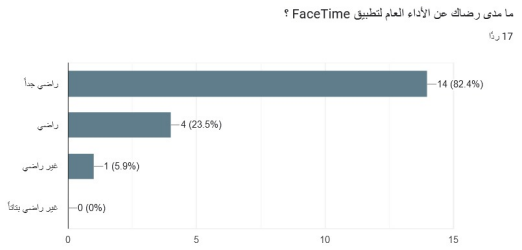

Figure 2.1:
In Figure 2.1 through the survey we conducted, we found that 83.3% used the application, while 22.2% did not use the application.

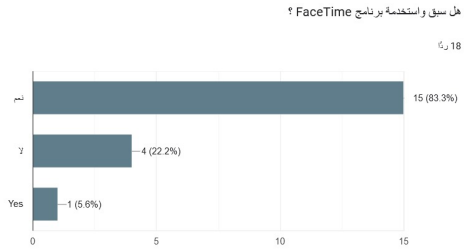

Figure 2.2:
responses to a Face Time survey are displayed in a bar chart in Figure2. 82.4 percent of 17 respondents thought it was "Very Good," while only 23.5Good" category, no ratings were assigned .

Figure 2.3:
Figure 3's pie chart demonstrates that, with 94.4calls, the majority of users do so primarily for phone calls. Only 5.6other reasons

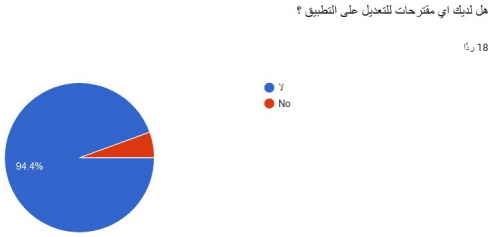

Figure 2.4:
In Figure 4 We added a question if they have any suggestions And 94.4

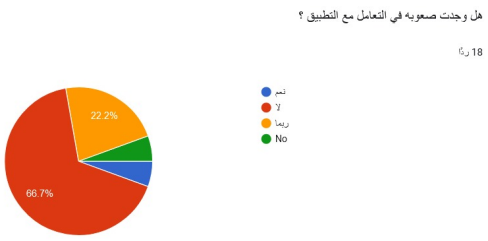

Figure 2.5:
The majority of users (66.7chart show in Figure 5. Only 11.1primarily positive experience with the app. A lower percentage, 22.2mixed sentiments
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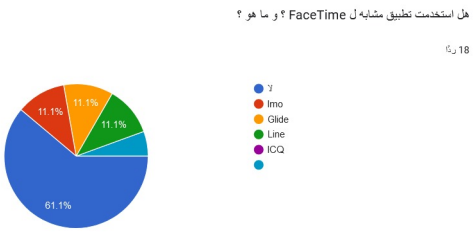

Figure 2.6:
In Figure 6 We also found that 61.1use any similar application, 11.1them used Line, and no one voted for ICQ.

2.4 Comparison with Similar Programs

Comparison Table

Feature	**Face Time**	**IMO**
Communication Type	Video and audio	Visual, audio and also text messages
Device Compatibility	iOS only	iOS and Android
Support	Strong support from Apple	Weaker security
Protection	Strong encryption	Weaker security, often unencrypted
Account Requirement	No new account required	Requires account for each user

Chapter 3

Application Design

3.1 Introduction

In this section, we will clarify the functional requirements and system activities, including the activity diagram, and sequence diagram, and show the system architecture for the application.

3.2 Analysis

3.2.1 System Architecture

Face Time, created by Apple, is a video and audio communication application that does not require external databases such as SQL or No SQL. Alternatively, Apple might opt to utilize internal storage solutions like iCloud for saving certain data such as call histories and settings

3.3 Design

3.3.1 Application Diagrams

Sequence Diagram

A sequence diagram was created to illustrate the process of making a Face Time call. The diagram consists of three components: User A and User B, the Call Server, and the Face Time database. The process begins with a contact request, where User A sends a connection request to User B.

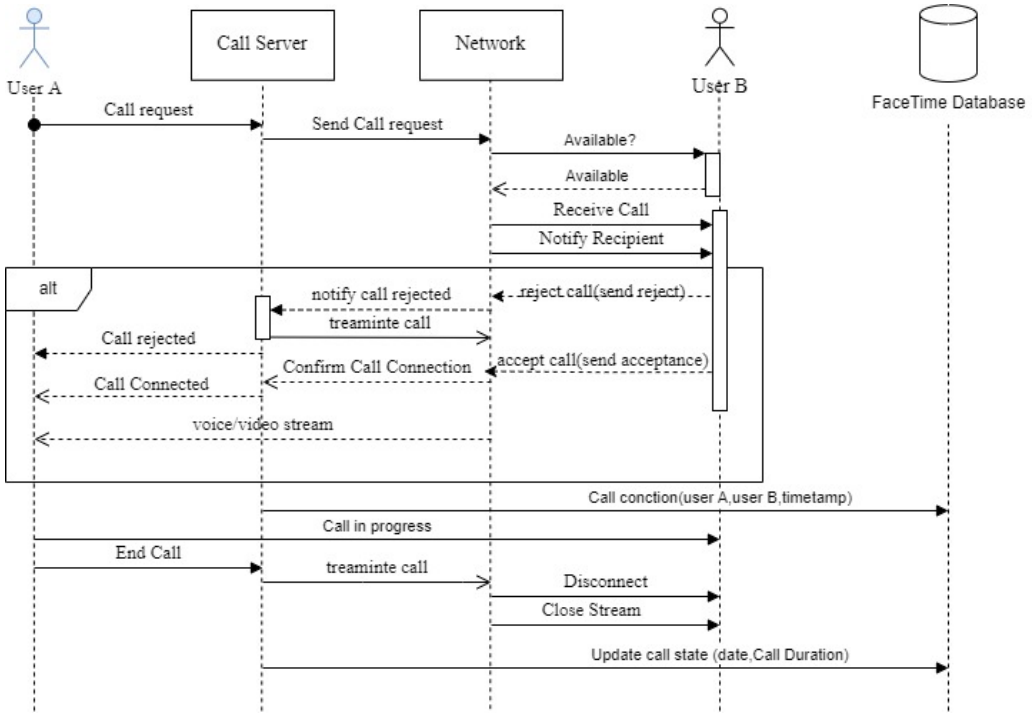

Figure 3.1: SequenceDiagram

Activity Diagram

1. Check for an internet connection.
2. Open Face Time settings.
3. Log in with Apple ID.
4. Check restrictions.
5. Activate Face Time.
6. Return to Face Time.
7. Open Contacts.
8. Choose Contacts.
9. Does he want to call?
10. Does he want the call to be visual and audio together or not?
11. End call.

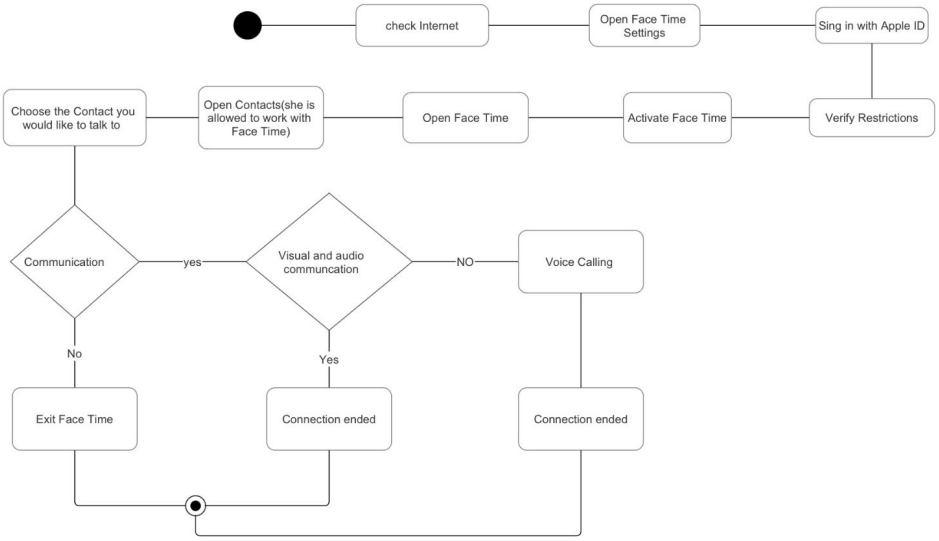

Figure 3.2: Activiydiagram

Chapter 4

Conclusion

With seamless cross-device connectivity, Face Time is a powerful audio and video communication tool created exclusively for Apple consumers. It resolves issues with communication by offering low-latency, high-quality calls. In addition, the program enhances user experience and privacy by providing strict security measures and linguistic support. Face Time is commended for being a highly successful communication tool, despite its limited cross-platform compatibility. Its popularity might be expanded with more improvements e.g. the software being supported by all systems.

Chapter 5

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