



## Kichwa Yachay



### 1. Justification

It is intended to demonstrate from the technical, technological, methodological, social, professional and investigative points of view by the students of Yachay Tech University in the realization of a mobile application. This project will be very useful for the academic community because it will complement the language department, transmitting Kichwa as an ancestral language for Ecuadorians.

### 2. High level description

Identification, collection, storage, processing and use of data to develop a Kichwa language learning tool, achieving a University - Company linkage and the articulation of a relevant actor in the academic field.

### 3. Project scope

The phases of the project and the activities to be developed for each phase

**Starting date:** 15 of November 2022

**Due date:** 13-16 of March 2023

**Budget required:** \$ 0

### 4. Objectives

#### 4.1. General objective

The general objective is to create a learning application for the open public with the purpose of learning Kichwa in a fun and interactive way.

## 4.2. Specific objectives

- The Yachay Kichwa app will be available at any moment for the user to interact, and at the same time make it easy to use and manage.
- Evaluate the correct operation of the mobile application through pilot tests.
- Explain the development and functionality of the application throughout reports.

## 5. Deliverables

Description	Date
Sketch the application in case we don't have a design	24/11/2022
General Design of the Software (FrontEnd)	29/11/2022
Creation and administration of the database	06/12/2022
Development of the lessons, questions from 1 to 3	12/12/2022
Testing question 1, lesson 1	13/12/2022
Correction of lesson 1, question 1	20/12/2022
Development of the lessons, questions from 2 to 3	04/01/2023
Testing question 2, lesson 1	05/01/2023
Correction of lesson 1, question 2	11/01/2023
Development of the lessons, questions from 3 to 3	18/01/2023
Testing question 3, lesson 1	19/01/2023
Correction of lesson 1, question 3	25/01/2023
Final review of connections between the database and the application.	31/01/2023
Review of all Unit 1	07/02/2023
Correction of possible application errors	14/02/2023
Beta 1.0.0.0 of the application	21/02/2023

## 6. Team

Wilter José Menoscal Saltos.

Ricardo Joseph Farinango Romero.

Christopher Hernán Almachi Loor.

Marco Emilio Ibañez Aviles.

Anthony Mateo Salazar Ramos.

## 7. Milestones

Description	Date
Testing question 1, lesson 1	13/12/2022
Testing question 2, lesson 1	05/01/2023
Testing question 3, lesson 1	19/01/2023

Review of all Unit 1	07/02/2023
Beta 1.0.0.0 of the application	21/02/2023

## 8. Assumptions and constraints

Assumptions	Constraints
The Language department will help us with the audios, questions, and with the app interface.	Lack of knowledge of the language, and depending on the language department's help.

## 9. Project risks – High level

### Time factor

The risk that project tasks will take longer than planned. Schedule delays can affect other elements, such as budget, delivery dates or overall performance.

### Underperformance

Performance risk arises when the project does not achieve the performance that was initially expected. Examples of these are tight deadlines and lack of communication among team members.

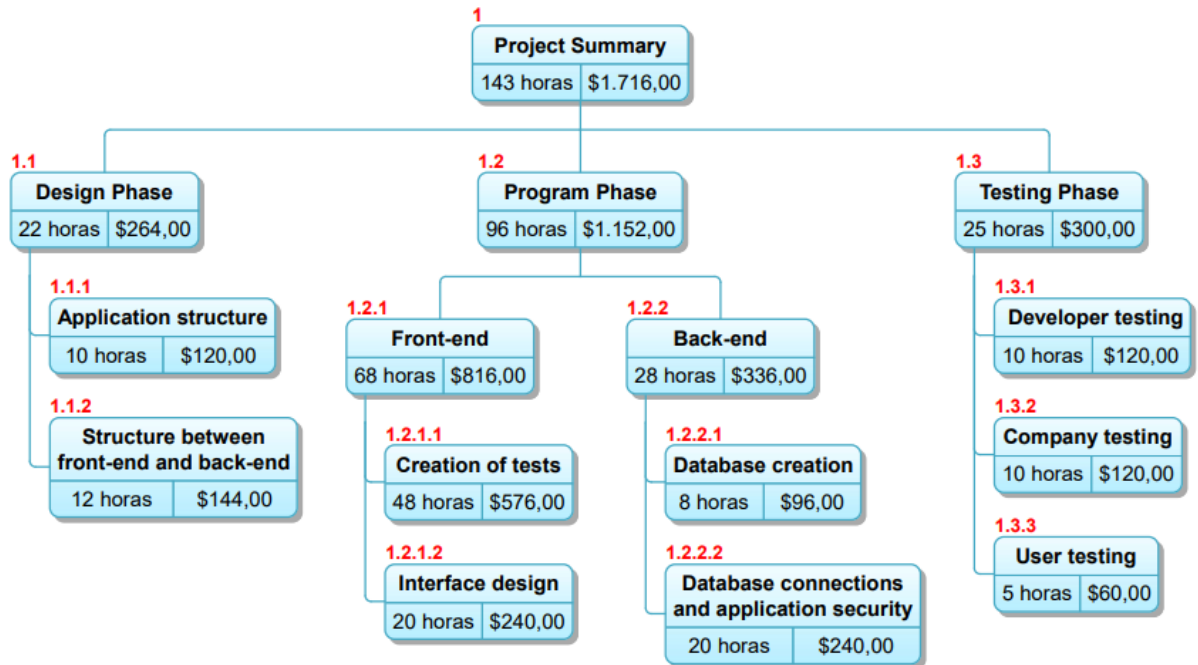
### Communication risk

Establishing meetings with stakeholders, such as the language department, helps to track changes, reassign tasks, and foster a cohesive team environment.

### Risk of scope creep

Uncontrolled and unauthorized change to the initial scope of the project can result in the additional cost of additional features, products or functions.

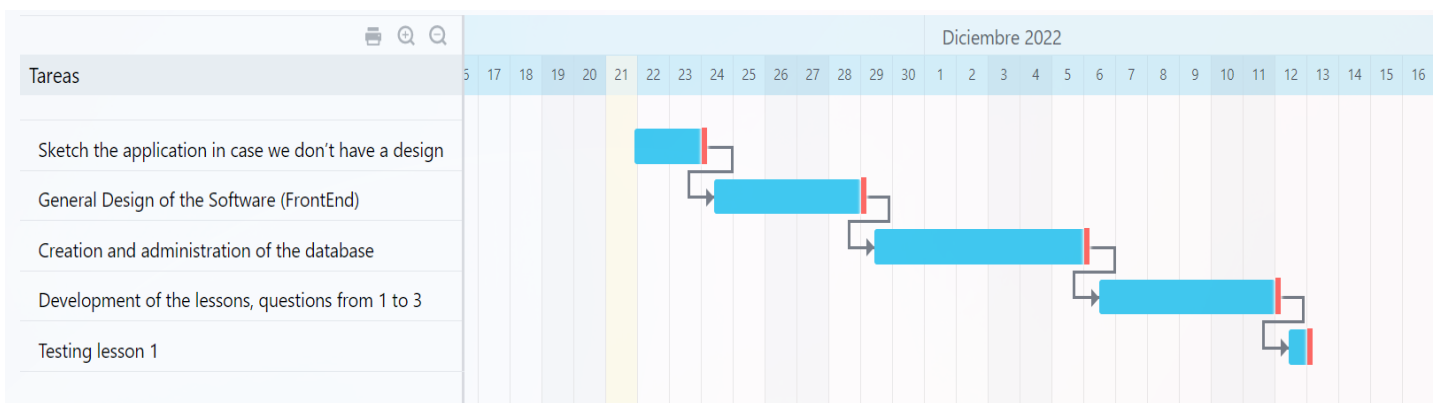
## 10. WBS



## 11. Timeline / schedule

1	Project Name Yachay Kichwa	217d	8/11/2022	13/03/2023
1.1	Phase 1:	22d	21/11/2022	13/12/2022
1.1.1	Sketch the application in case we don't have a design	3d	21/11/2022	24/10/2022
1.1.2	General Design of the Software (FrontEnd)	5d	24/11/2022	29/11/2022
1.1.3	Creation and administration of the database	7d	29/11/2022	06/12/2022
1.1.4	Development of the lessons, questions from 1 to 3	6d	06/11/2022	12/12/2022
1.1.5	Testing lesson 1	1d	12/12/2022	13/12/2022

## 12. Gantt diagram



## 13. Developers, resources, and external team

**Wilter.** Database administrator, Front-end Developer, back-end developer.

**Ricardo.** Database administrator, Front-end Developer

**Emilio.** Front-end Developer, Back-end developer.

**Christopher.** Front-end Developer

**Anthony.** Front-end Developer

Resources:

- Figma.
- Android Studio.
- Postgresql.
- PHP

## 14. Observations

One of the many observations we have made has been first the main difficulty we are going to have in case the language department does not help us with the database, since until now there isn't another known Kichwa language database we could use, apart from that we would also have to create a custom interface, so there could exist a delay in our deliveries and milestones since we would have to consult if the user, this case being the language department agrees with the interface and the also tasks we would have to keep on adding as time passes. Apart from that, our application for now will only be compatible with Android users.