
CONVERT MASTER

Ultimate Currency And Unit Of Measure Converter

Project Vision Document

Version 1.4

9/29/2024

Revision History

Revision	Date	Author	Reviewed By	Summary of Changes
Project Vision Document version 1.2	09/16/2024	Justin Yeh, Luilson Sousa, Fab Pisco, Kevin Lapointe	Prof. Laily	Worked on Introduction (including purpose, scope and definitions), Positioning (including business opportunity and SWOT analysis), assumptions and constraints
Project Vision Document version 1.4	09/29/2024	Justin Yeh, Luilson Sousa, Fab Pisco, Kevin Lapointe	Prof. Laily	Added revision history, document approval list, document distribution list, references, stakeholder and user descriptions, stakeholder requirements and system features

Document Approval List

Version	Approved By	Signature	Date
Project Vision Document version 1.4	Prof. Laily	Justin Yeh, Luilson Sousa, Fab Pisco, Kevin Lapointe	09/29/2024
High Level Requirements Document version 1.4	Prof. Laily	Justin Yeh, Luilson Sousa, Fab Pisco, Kevin Lapointe	09/29/2024
Project Summary Template	Prof. Laily	Justin Yeh, Luilson Sousa, Fab Pisco, Kevin Lapointe	09/29/2024
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Document Distribution List

Version	Name of the Receiver/Group	Date
Project Vision Document 1.4	Justin Yeh, Luilson Sousa, Fab Pisco, Kevin Lapointe	09/29/2024
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1 Introduction

In this Project Vision Document, we are creating a website that converts the price per unit of measure in a foreign currency to Canadian currency. It outlines the business opportunities and the overall business case for the project.

1.1 Purpose

The purpose of creating this Project Vision Document is to clearly define the conversion tool that is to be developed by the team. This includes the project scope, SWOT analysis, identifying stakeholders and documenting any assumptions and constraints that could potentially impact the project and product that is to be created.

1.2 Scope

A website that converts the price per unit of measure in a foreign currency to another unit of measure priced in Canadian currency.

1.2.1 In Scope

- Browser based application
- The TO currency will always be in Canadian currency
- User will enter the current/projected exchange rate

1.2.2 Out of Scope

- Creation of a mobile application version of the product
- Getting the real time exchange rate from the Bank of Canada using an API

1.3 Definitions, Acronyms, and Abbreviations

<This subsection provides the definitions of all terms, acronyms, and abbreviations required to properly interpret the Project Vision document. This information may be provided by reference to the project's Glossary>

This section explains all of the terms and abbreviations that are being used in this document, for those who are unfamiliar with them. Not everybody who reads this document will understand all of the terms, so this section is helpful.

Term	Explanation
API	Application Programming Interface – platform to facilitate communication between multiple applications
FX	Currency exchange rate
SWOT	Analysis of Strengths, Weaknesses, Opportunities and Threats

iOS	iPhone Operating System

1.4 References

<This subsection provides a complete list of all documents referenced elsewhere in the Project Vision. Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document>

Reference File Name	Version	Description
Project Vision Document	1.4	Document that defines the conversion tool that is to be developed by the team which includes project scope, SWOT analysis, identifying stakeholders and documenting any assumptions and constraints that could potentially impact the project and product that is to be created
High Level Requirements Document	1.4	Document that outlines the main objectives of the project which includes the business context diagram and requirement scope statements
Project Summary Template		Document that provides a summary of our project goals
Minutes Of Meeting		Documents that contain a record of what our team discussed during the meetings

This section also contains links to all other places that were referred to in this document. These may include:

- *Web sites*
- *URLs or network locations*
- *Research done for similar products*

Name	Link
Currency API	https://currencyapi.com/

Javax.measure – Java Unit of measurement API	https://www.baeldung.com/javax-measure
CalConvert: Currency Converter	https://apps.apple.com/us/app/calconvert-currency-converter/id426007025
Unit Converter – all in one app	https://play.google.com/store/apps/details?id=com.veewalabs.unitconverter
Convert World – currency, measurements, etc.	https://www.convertworld.com/en/

2 Positioning

2.1 Business Opportunity

The business opportunity is to create a conversion tool that would enable a simplified way for people and organizations to convert measurements and currencies. This tool could be used by people in different industries such as education, construction, business and even personal use. It can also help convert unique units depending on regional variations in different countries.

2.2 Problem Statement

< Provide a statement summarizing the problem being solved by this project. The following format may be used>

The Problem of	Different regional variations in units of measurement and currency
affects	Global populace – Ages ranging from 10 to 80 who have access to the internet using a browser
the impact of which is	knowing the correct conversion of measurement and currency
a successful solution would be	to create an application that would simplify the conversion to Canadian currency and measurement depending on the regional units used. This could involve the user being able to choose from multiple conversion rates and measurements from a drop-down list in the application.

Table 1 Problem Statement

2.3 Product Position Statement

< A product position statement communicates the intent of the application and the importance of the project to all concerned personnel >

For	Global populace – Ages ranging from 10 to 80 who have access to an internet using a browser
Who	The need for various activities that require conversion of currency and measurements.
The Ultimate Currency and Unit of Measure Converter	is a computer application
That	Provides a simplified way to convert currency and measurement units
Unlike	Other conversion applications that are less intuitive and more complex to use.

Our product	Simplifies conversion of measurement units and currencies for regional differences. Our simple to use application allows many options for various fields of use.
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Table 2 Product Position Statement

2.4 SWOT Analysis

<Reference: <https://www.businessballs.com/strategy-innovation/swot-analysis/>>

Strengths	Weaknesses
Lower development cost. Hybrid apps don't need separate teams or development on separate platforms.	Slower performance on heavy graphics heavy complex apps due to relying on web technologies and a web-browsers to function.
Quick deployment, using a single codebase speeds up development and faster time to market.	Inconsistent look, hybrid app doesn't match the user experience expected by iOS or Android devices or may look like all other money conversion app.
Easier maintenance, changes made on the code are reflected across all platforms to tackle updates and bugs.	Restricted to some offline functionality that is native to android or iOS such as the calculator, camera and compass.
Opportunities	Threats
Monetization, in app adds, subscription and fees from potential third-party money transfer services.	Market competition, similar apps on the market already established with a higher marketing budget.
Real-time currency rates and historical data can enhance credibility and market share.	Emerging technology and new features added to keep performance and updates constant and relevant.
Partnering Globally with Travel, Government and international business to use their resources and help our app tap to new consumers and data.	Security vulnerabilities such as hacks due to poor coding and experience.

3 Stakeholder and User Descriptions

< This section provides a profile of the stakeholders and users involved in the project, and the key problems that they perceive to be addressed by the proposed solution. It does not describe their specific requests or requirements as these are captured in a separate stakeholder requests artifact. Instead, it provides the background and justification for why the requirements are needed>

3.1 Stakeholder Summary

< There are a number of stakeholders with an interest in the development and not all of them are end users. Describe and list the project stakeholders>

Stakeholder Name	Represents	Role
Customers	These are paying end-users that will use the product that this project will produce	Supporting the future development of the product as they will be funding it through the payment of the fees, and they may also provide suggestions for future improvements
Ad supported users	Nonpaying users	Payment through advertisements displayed on the website as well as product feedback
Developers	They represent the design, build and implementation and ongoing support of the application	Design the software and write the code for the application
Investors	Help with monetary needs of the project and provide direction and feedback to the rest of the team	Provide funding for the ongoing development of the project

Table 3 Stakeholder Summary

3.2 User Summary

< Present a summary list of all identified users of the system >

User Name	Description	Responsibilities	Stakeholder
Commercial users	Businesses that use the application to support their ongoing business activities	Provide feedback for improvements and provide funding through direct payment or ad supported model	Customer

User Name	Description	Responsibilities	Stakeholder
Personal users	Anybody who wants to use the application for everyday personal use	Product feedback and payment through advertisements on the website	Ad supported user

Table 4 User Summary

4 Stakeholder Requirements

< Categorize and list the requirements from the perspective of the business stakeholder and potential system users >

ID	Requirement	Stakeholder
1	Required to be able to enter an exchange rate to be used in the calculation. Get accurate conversion data from the application. No advertisements in the application as they are paying customers.	Customers
2	Required to be able to enter an exchange rate to be used in the calculation. Get accurate conversion data from the application. Ability to use the application without monetary payment.	Ad supported users
3	Required to have the development tools and business requirements to design, build and test the application	Developers
4	Required to see a profit within a certain time frame from the application	Investors

Table 5 Stakeholder Requirements

5 System Features

< List and briefly describe the system features. Features are the high-level capabilities of the system that are necessary to deliver benefits to the users. Avoid design. Keep feature descriptions at a general level. Focus on capabilities needed and why (not how) they should be implemented >

ID	Feature	Stakeholder Requirement ID
1	Convert foreign currency per unit of measure to Canadian currency per unit of measure	1,2
2	User enters the exchange rate	1,2
3	Get the rate from a web service if time permits	1,2
4	Do the necessary conversions and display the result for the user	1,2

Table 6 System Features

6 Assumptions

- The platform will support currency conversions primarily involving CAD, but other currencies will be considered if time permits.
- Users may need to manually input exchange rates unless integration with a real-time currency exchange service is possible.
- The platform will be accessible via web browsers, but no assumption is made regarding mobile app availability.

7 Constraints

- Integration with external services (such as web services for real-time exchange rates) is subject to time and resource availability.
- Web development and backend integration are constrained by the technical skills of the team, with no external developers involved.
- Project resources (e.g., access to APIs or additional software) may be limited to freely available tools.