



Cross-platform Currency Converter

Software Requirements Specification

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Let us dive into each element's details.

Project's context presentation

ENSIAS

ENSIAS is a Moroccan engineering school specializing in computer science, Information, and communication technologies. It aims to train elite engineers capable of leading the country's development in technological and economic areas.

It provides a lot of training fields, including Digital Finance (which is our major), that works towards bringing about polyvalent engineers in both expertise: STEM (Science, Technology, Engineering, and Mathematics) and finance which is very valued in the tech world.

Problematic

The action of going on the net to look for currency conversions in real-time remains difficult, especially when doing it regularly (for example, in the case of a trader, broker, tourist, etc.). This is why Currencia is there to satisfy this need via all possible platforms while respecting the current exchange time.

Actual Situation

Currently, we're aiming to build a cross-platform finance application that can provide various financial services all at once. To illustrate, instead of googling everything financial or using various finance-related services providers, we made Currencia for the user to have an all-in-one user-friendly, easy-to-use, clean, fast, and beautiful looking application.

Application's Objectives

Currencia aims to convert between currencies of over 150 countries and helps to visualize the variation of multiple currencies compared to USD. In the end, it shows all trading currencies that had significant variations in the world. Our app eases access to various services for users instead of searching for each one separately.

Application's Description

Currencia runs on all operating systems. Opening the application on the phone or the browser, its logo will pop up as an opening the application, then, the user is going to have a stylish card to choose both: the currency from which they are trying to convert, and the one they're trying to convert to. Scrolling down, the user is seeing another card describing the variation of the chosen currency compared to USD, along with the trending currencies.



Operating systems

Currencia is a Hybrid or Cross-platform application, unlike native applications that get developed for a unique operating system, Hybrid ones are created once and only once and are compatible with iOS, Android, Desktop, and Web, which makes our App flexible in that sense.

Application's Economic Model

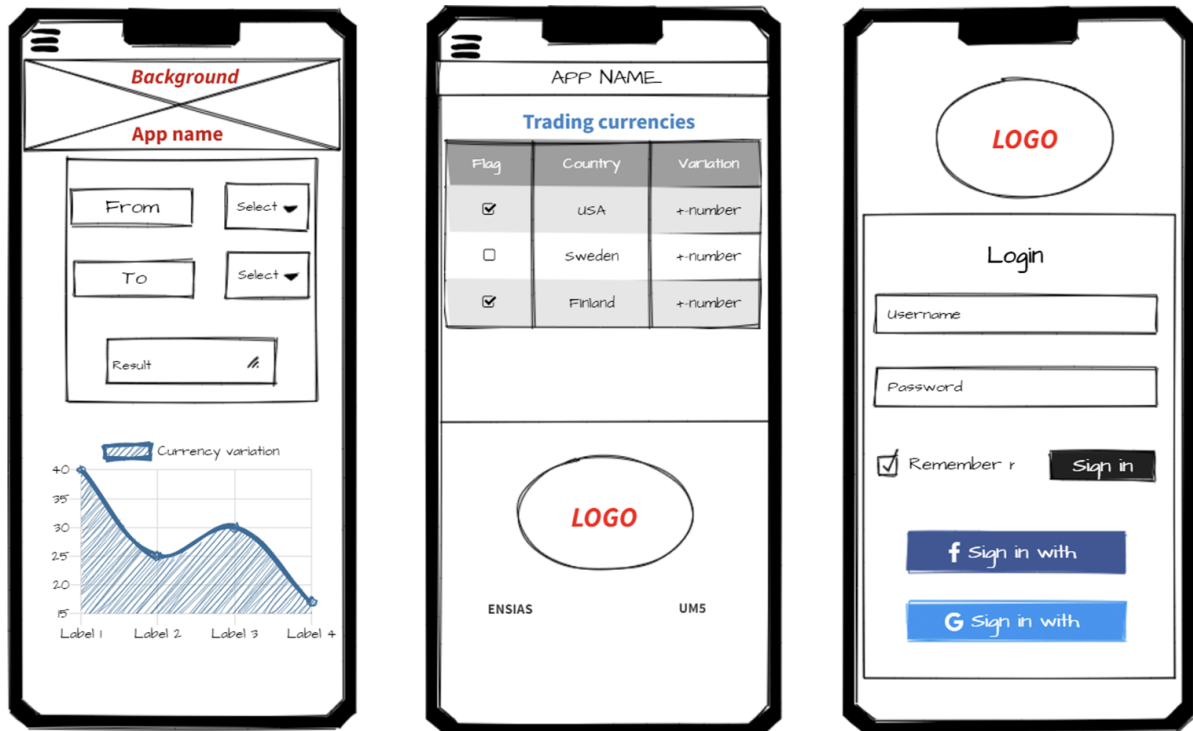
The application will have numerous sources of income. First, it will be assigned to AdSense so that it could run ads and generate income that way. Also, we can implement in-app advantages for subscribing users so as to have access to premium services.

Application's Design

Application's Logo



Wireframe (Maquette fonctionnelle)



The wireframe is the step that consists in defining, with simplified drawings, the screens that will compose your application. It is used by the different stakeholders to have a more precise idea of the tree structure and the different screens of the application.

It does not dwell on the aesthetic aspects. The objective of the wireframe is to determine the location of the different elements that make up your screens.

Inspiration

Numerous financial services providing websites inspired us. Such as xe.com, wise.com, and the list goes on.

Functionalities and Technical Specifications

Functionalities

Even though the application gives currency conversions at current exchange rates, we aim to expand its provided services.

Therefore, we're building a Signup and Login panel to engage with premium users or to send financial news to our customers.



Back office

The back office is the tool that helps manage the application. We resort to Yahoo Finance API and Google Firebase technology to better be in charge of the exchange rates, the database management, and the necessary updates of the application.

Constraints

It is hard to ensure the same quality for all operating systems even though the used technologies are created for cross-platform applications. For example, Android, and iOS applications made with Flutter are well made and good-looking. However, web applications get best developed using JavaScript.

The project schedule and Our Responsibilities

Expected Benefits

Currencia will help clients access diverse and exclusive finance information and services regardless of the operating system they are using. Therefore, the user could have various conversion services and data charts for free and other financial operations from only one application.

Resources

We used numerous resources to build our application, whether it's for coding purposes, user experience/interface design, or financial information. From which, we resite: YouTube, freeCodeCamp, Yahoo Finance, GitHub, etc.

Budget

We are students from the National School for Computer Science and are building this project for an end-of-year academic project, so we coded the application that cost nothing less than our time. Nevertheless, we aim to publish our application which will cost hosting fees, plus upgrading our API to a premium one to have more access to exclusive and advanced rates and services.

Expected Deadlines

We aim to expand the application's services in the upcoming months to have upgraded and updated versions that send finance mails through mailing, have premium users for premium services and build the application's web version using its specific frameworks.

Any question? Contact us:



We're always at your disposal in case you need further information. Make sure to contact us via e-mail or LinkedIn for any questions you could have.

Last and not Least

We, finance IT engineering students, are ready to make financial expertise greater than it already is. Subsequently, please consider staying tuned for any updated we might launch concerning our application.