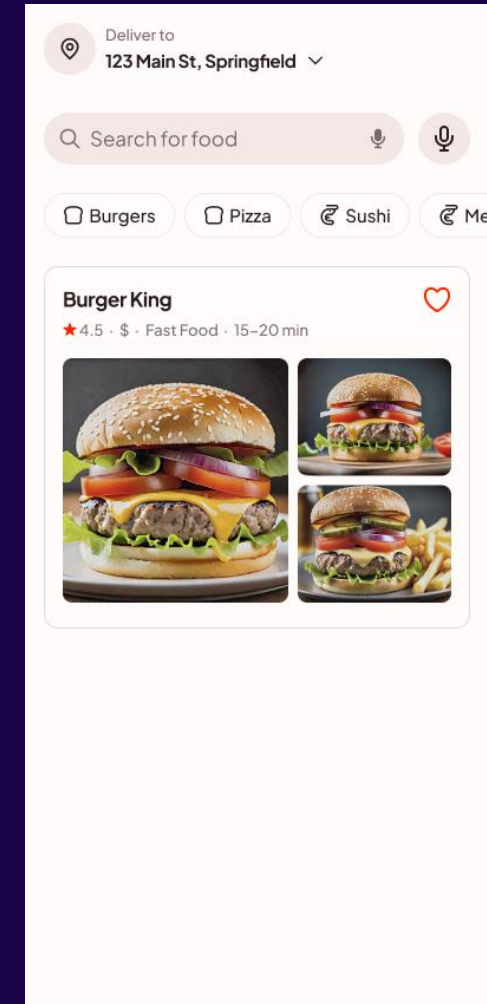
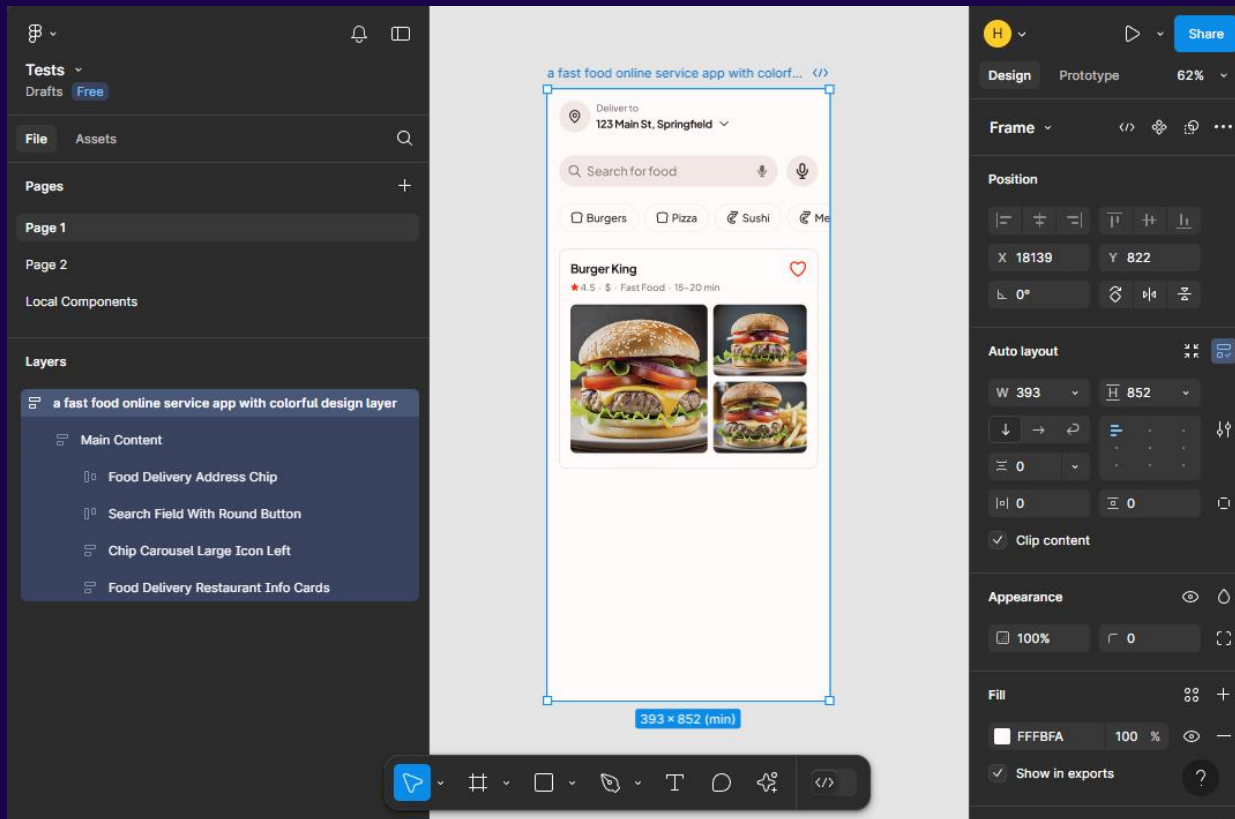


From Figma to .NET MAUI: Transform Your Designs into XAML Code in Seconds

Héctor Pérez
Microsoft MVP
X -> @hprez
LinkedIn -> @hprez21



Imagine being able to create and convert a Figma design in less than 10 minutes



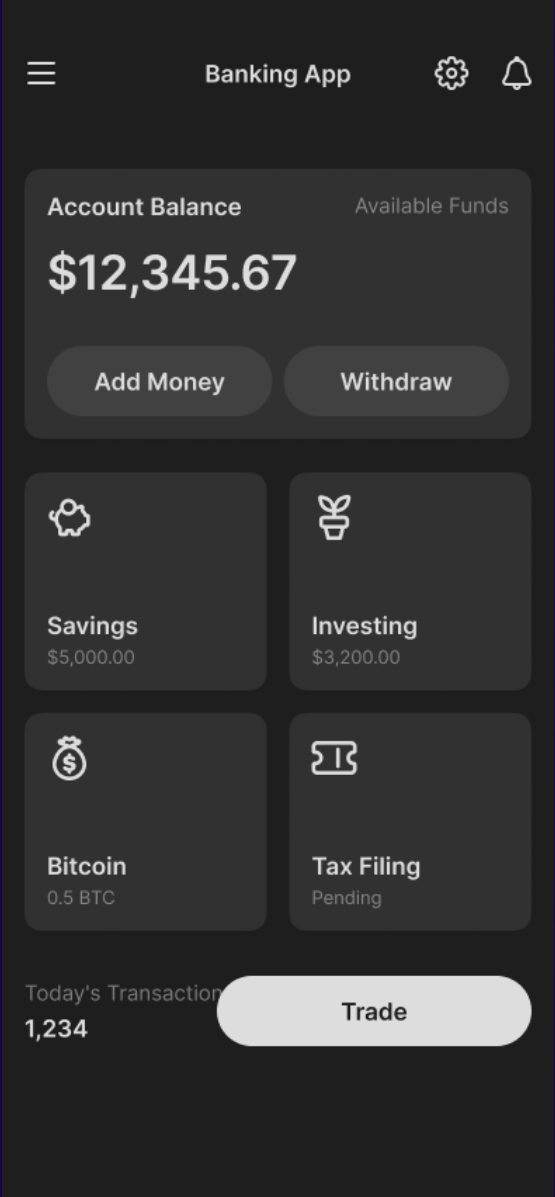


Demo: Designing in Figma and converting it to XAML code seamlessly with XAMLIFY

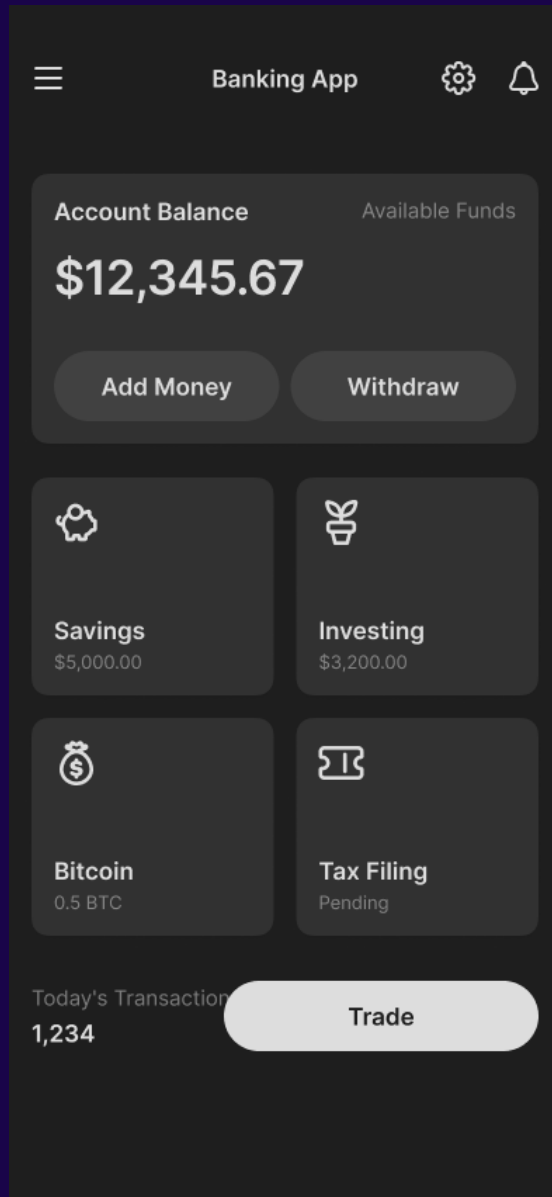


**.NET 9 is the best version yet
for working with XAMLIFY!**

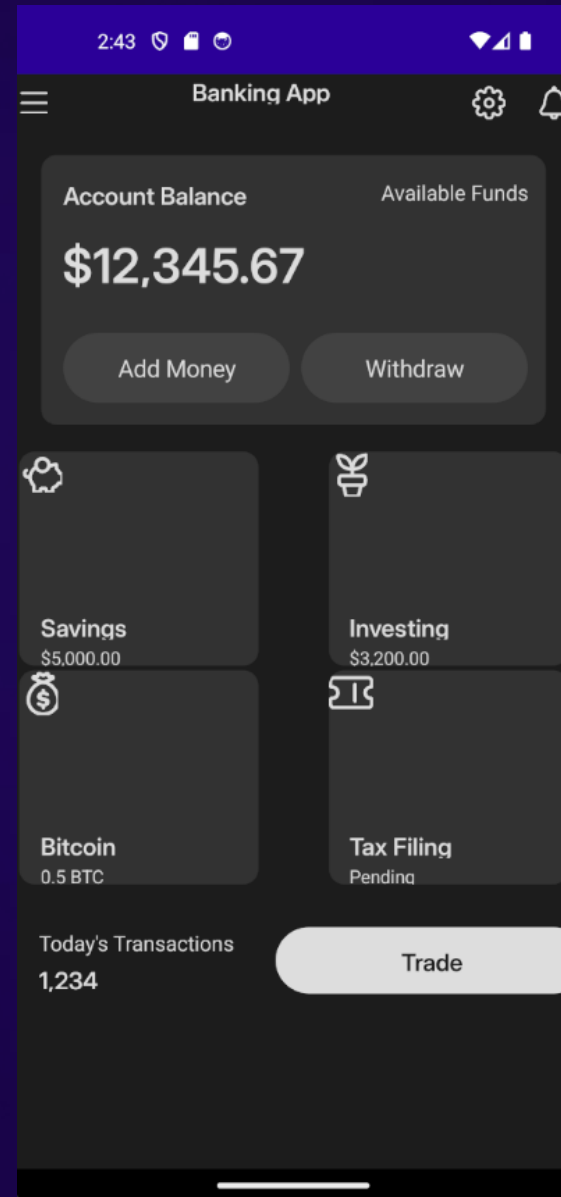
Figma Design



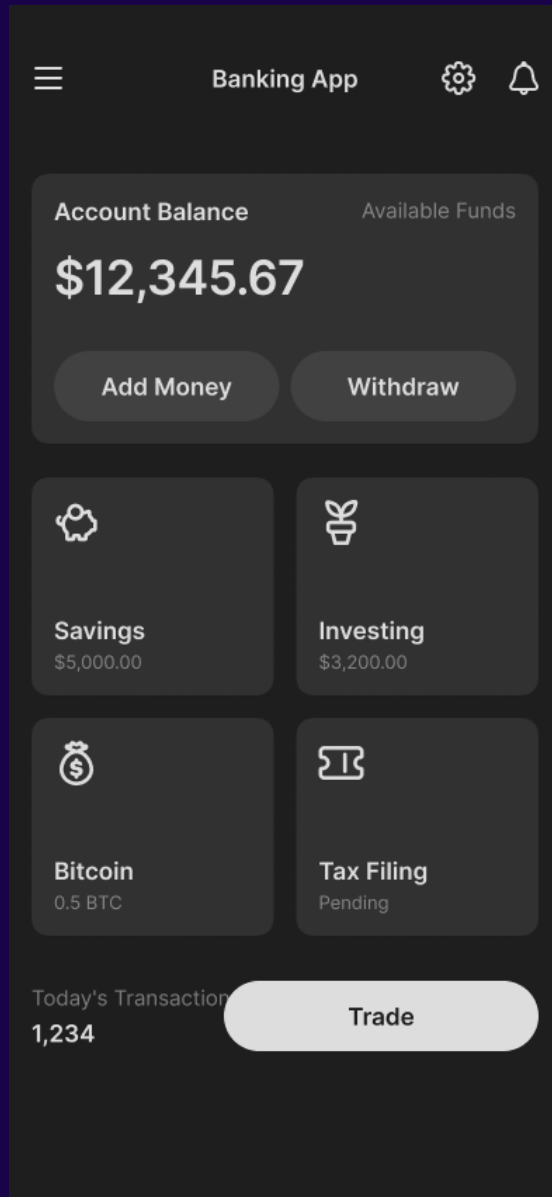
Figma Design



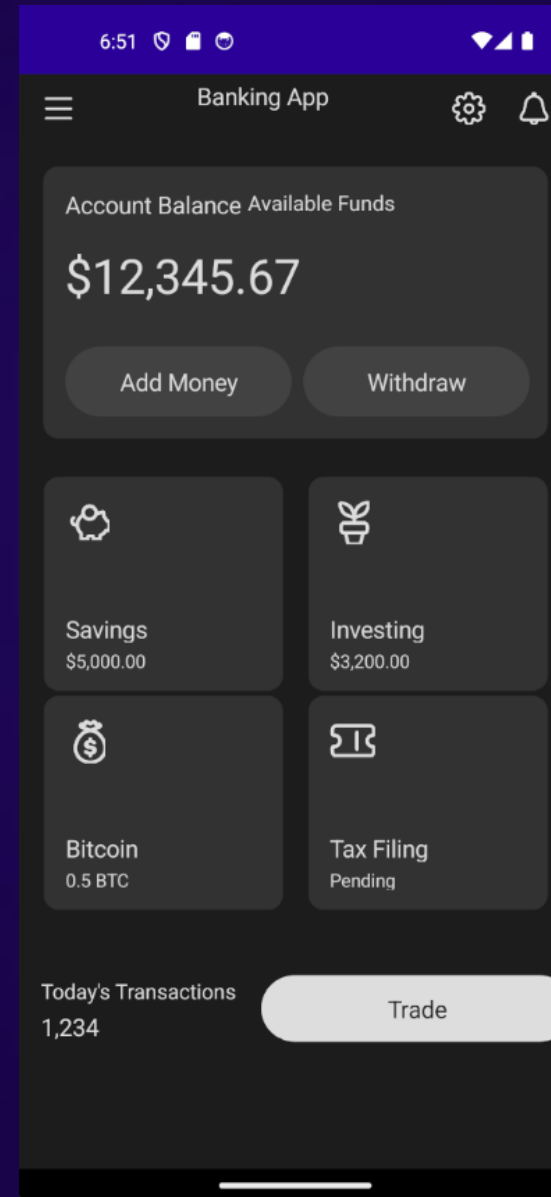
.NET 8



Figma Design



.NET 9



My journey led me to create
XAMLIFY, a tool that converts
Figma designs to XAML code for
.NET MAUI

Playground

Load a preset...

Save

View code

Share

...

W|

Mode



Model

text-davinci-002



Temperature

0.7



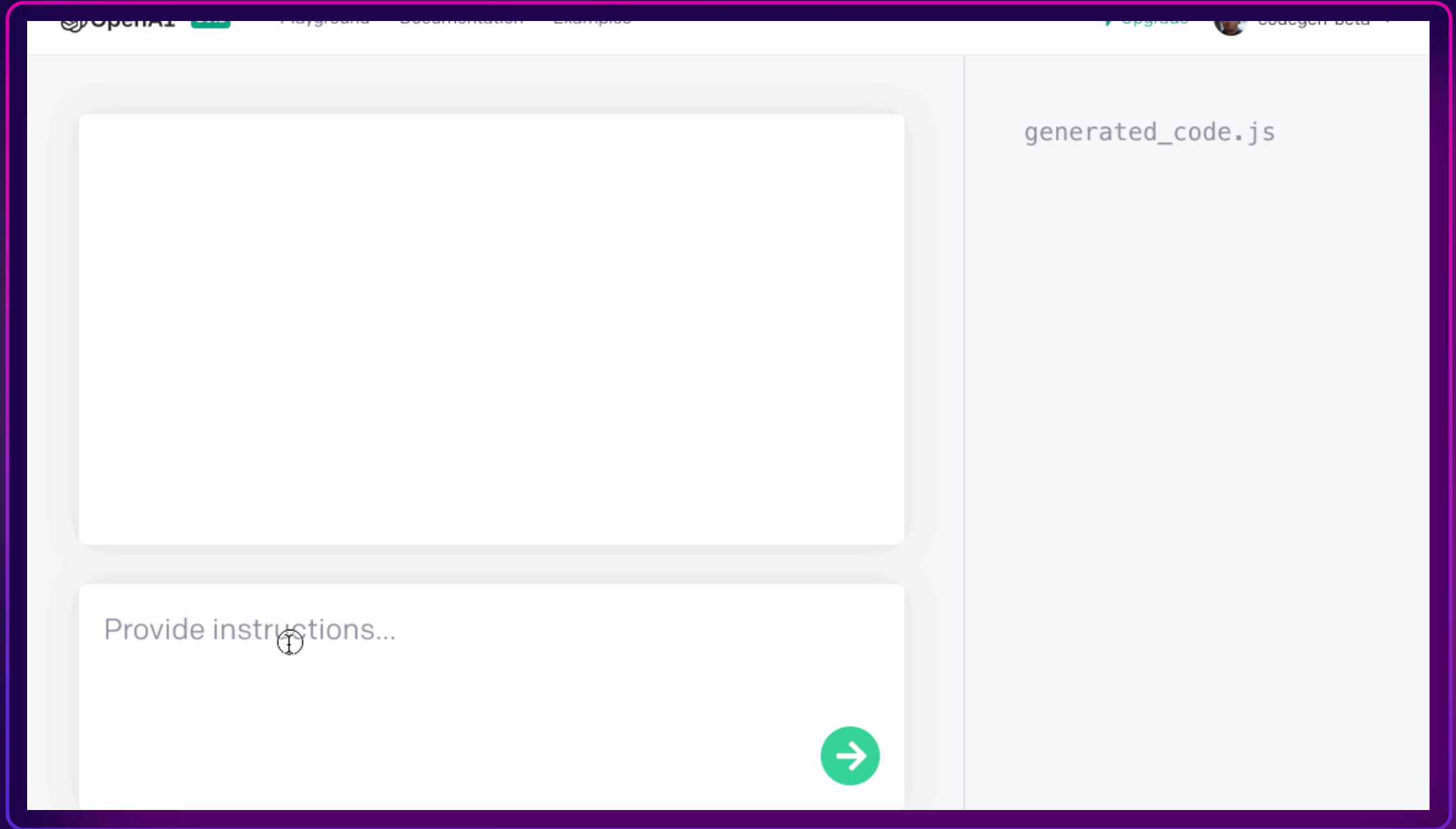
Maximum length

256

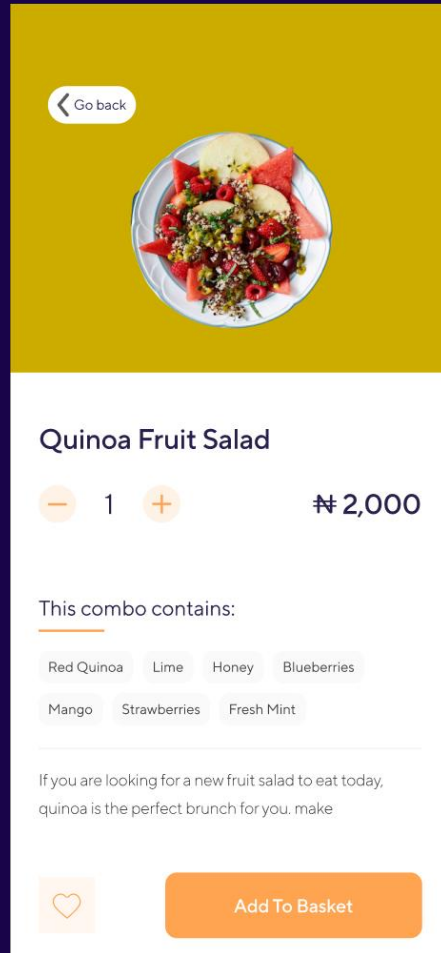


Stop sequences

Enter sequence and press Tab



The ultimate goal was to convert Figma designs into XAML code



```
<?xml version="1.0" encoding="utf-8" ?>
<ContentPage
    x:Class="UserLocationSensorTests.MainPage"
    xmlns="http://schemas.microsoft.com/dotnet/2021/maui"
    xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml">

    <ScrollView>
        <VerticalStackLayout Padding="16" Spacing="16">
            <Button
                Command="{Binding RegisterCommand}"
                IsEnabled="{Binding IsNotBusy}"
                Text="Register for activity transition updates" />

            <Button
                Command="{Binding DeregisterCommand}"
                IsEnabled="{Binding IsNotBusy}"
                Text="Deregister for activity transition updates" />

            <Label IsVisible="{Binding HasActivity}" Text="{Binding CurrentActivity}" />

            <Label Text="{Binding IsRegistered, StringFormat='Registration Status: {0}'}" />
            <Label Text="{Binding IsBusy, StringFormat='Is Busy: {0}'}" />
        </VerticalStackLayout>
    </ScrollView>
</ContentPage>
```



Red Stapler

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Page 1

Layers

Page

Grid

Label

VerticalStackLayout

Button

ButtonText

Entry

LabelText

Entry

LabelText

Entry

LabelText

BMI CALCULATOR

WEIGHT

HEIGHT

BMI RESULT

CALCULATE

Design

Prototype

92%

Layout

W 470

H 763

96

Clip content

Appearance

100%

0

Fill

FFFFFF

100 %

Stroke

Effects

Selection colors

000000

100 %

512BD4

100 %

FFFFFF

100 %

Layout grid

1 row

1 column

Export

Page 1

Layers

Page

Grid

T Label

VerticalStackLayout

□ Button

T ButtonText

□ Entry

T LabelText

□ Entry

T LabelText

□ Entry

T LabelText

BMI CALCULATOR

WEIGHT

HEIGHT

BMI RESULT

CALCULATE

Layout grid



1 row

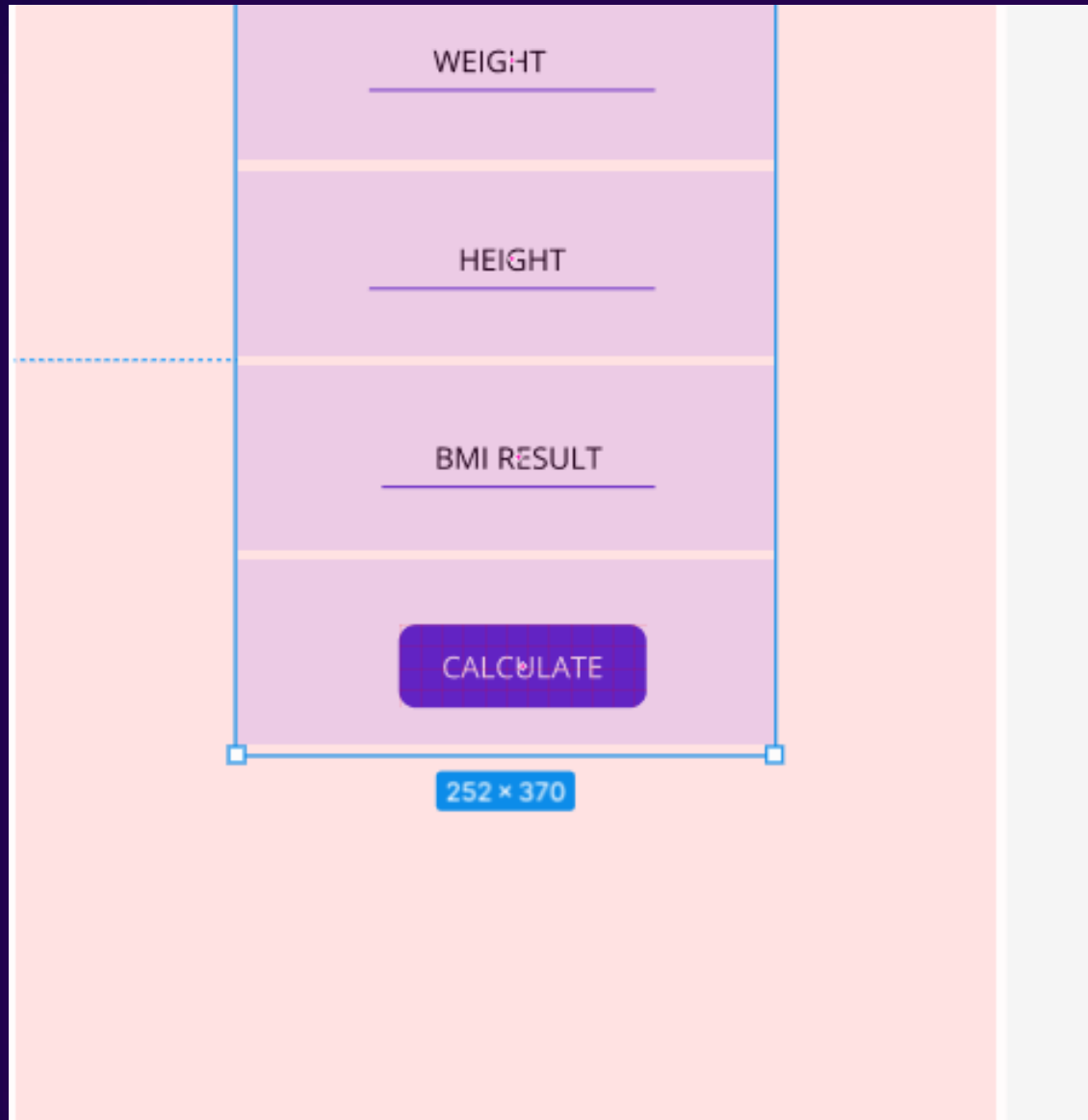


1 column



Export





Appearance

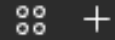


100%

0



Fill



FFFFFF

100 %



Stroke



Effects



Selection colors

512BD4

100 %

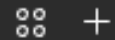
000000

100 %

FFFFFF

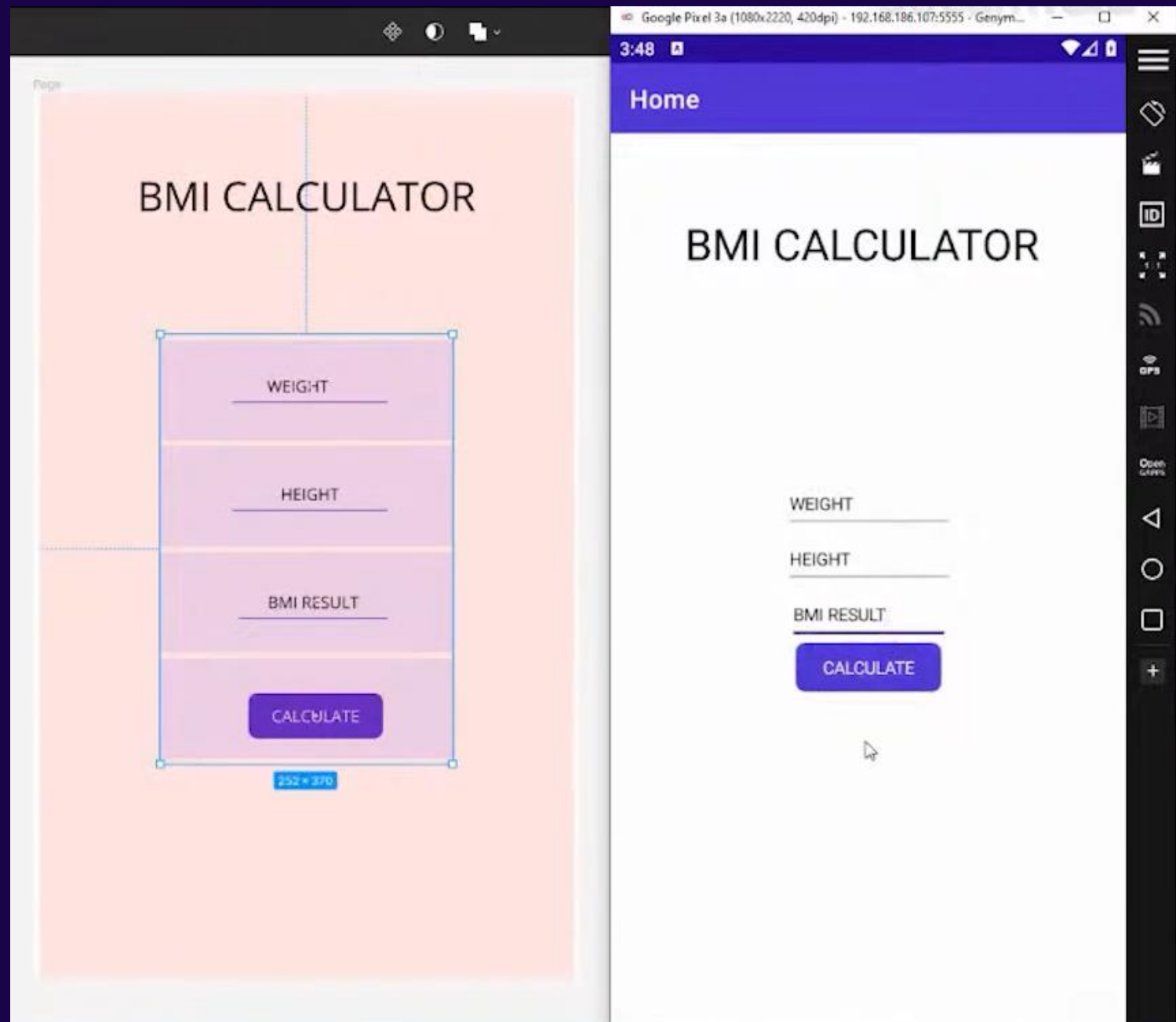
100 %

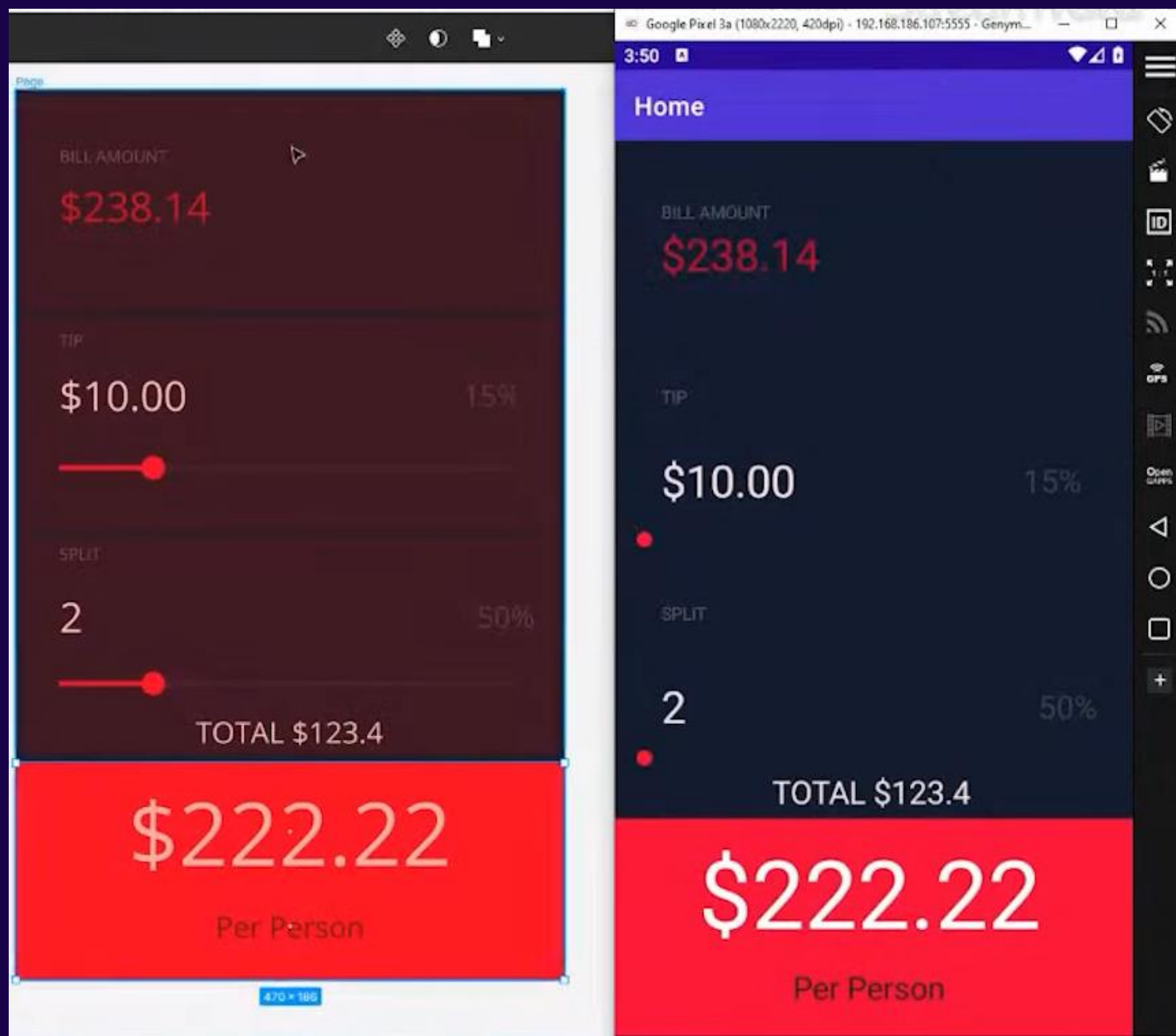
Layout grid



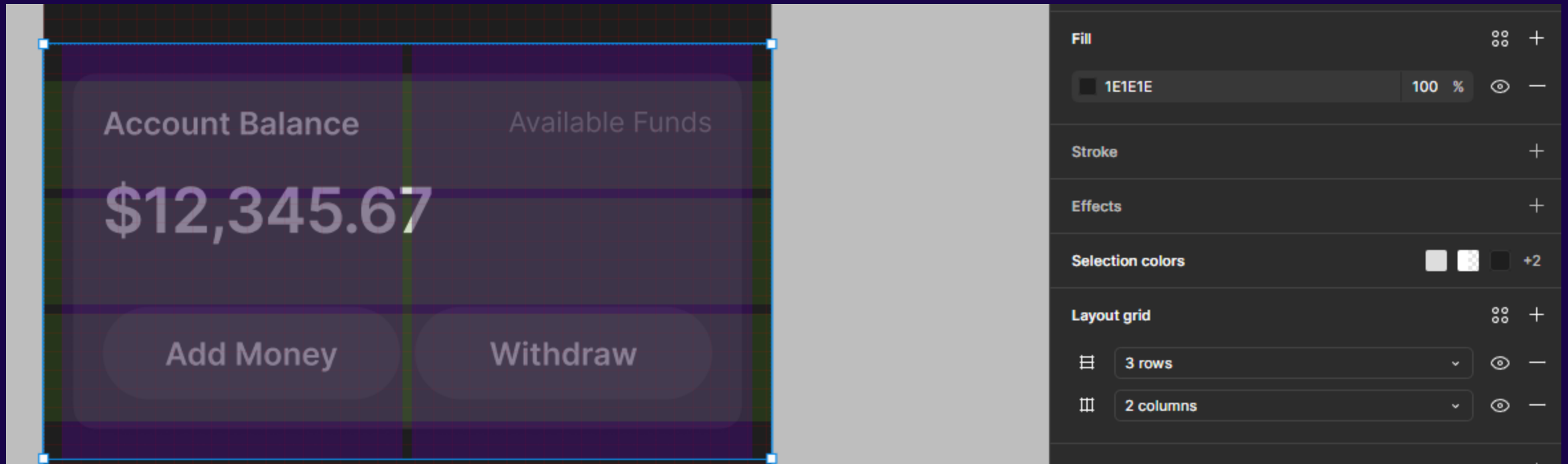
4 rows







However, there was an issue with this approach...



A few years later...

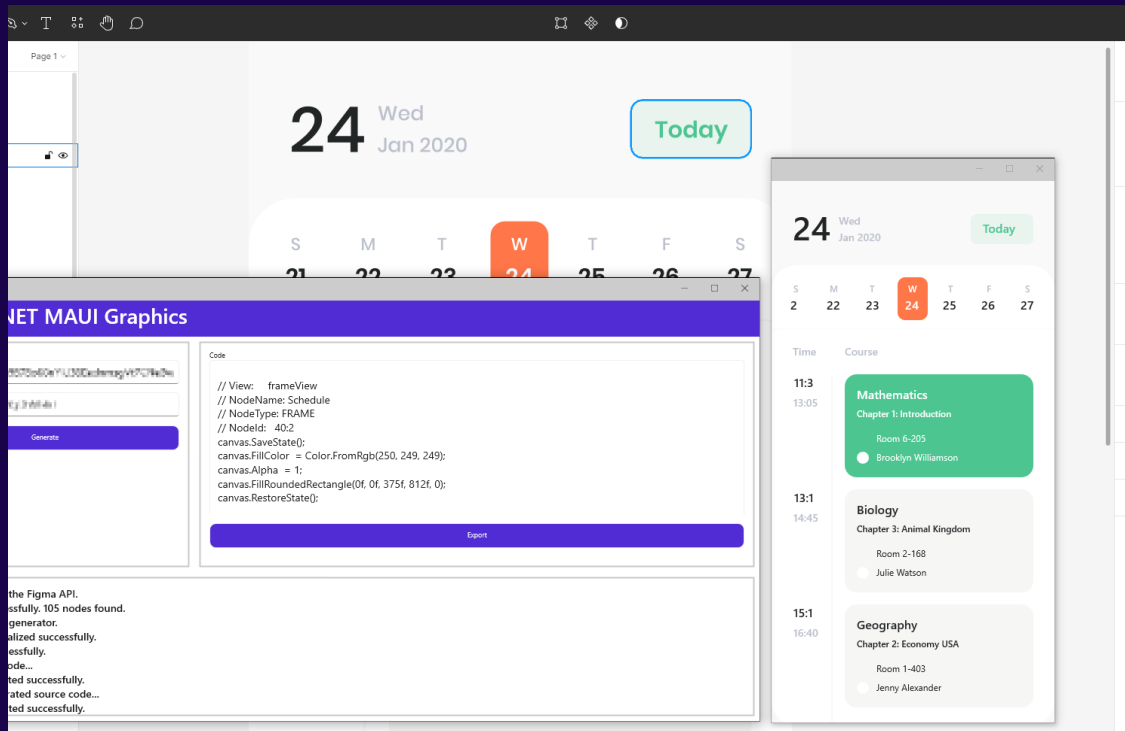
.NET MAUI
BINDING STATIC PROPERTIES TO XAML CONTROLS

.NET MAUI Tutorials
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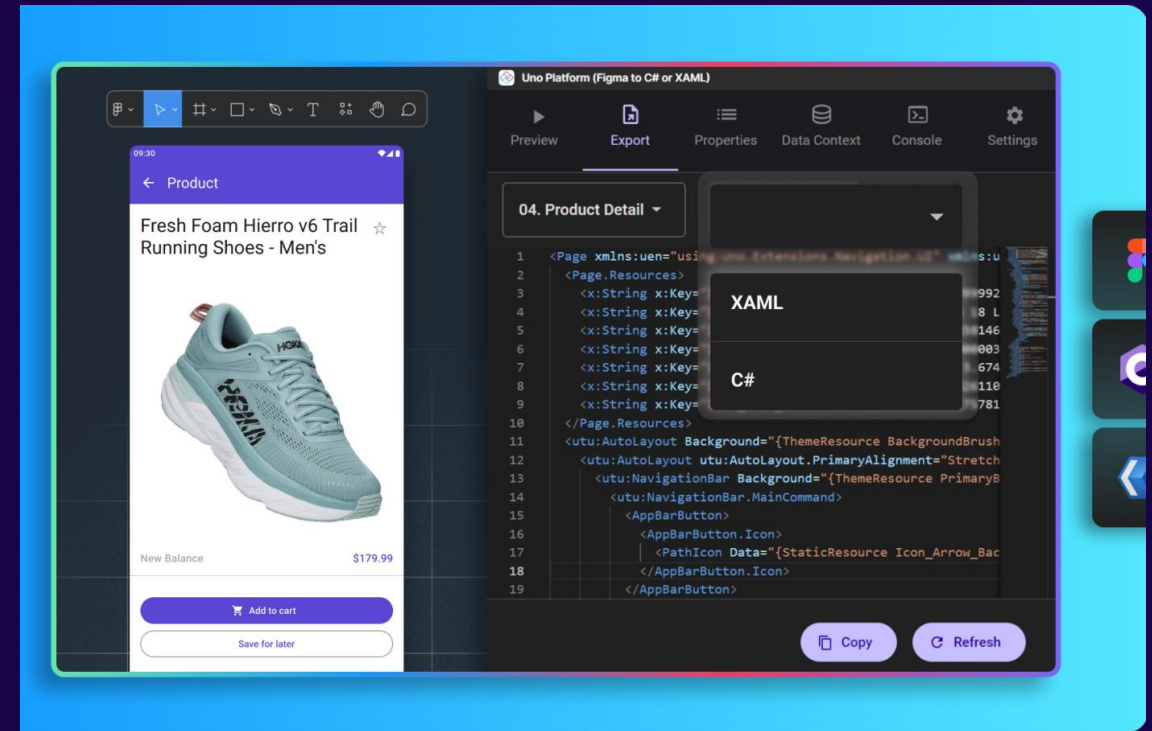
Reproducir...

- From Dribbble to .NET MAUI - XAML App DALL-E Challenge**
Devs School · 13 K visualizaciones · hace 1 año
30:51
- From Dribbble to .NET MAUI - XAML App DALL-E Challenge # 2**
Devs School · 3,1 K visualizaciones · hace 1 año
16:39
- From Dribbble to .NET MAUI - XAML App DALL-E with animations Challenge # 3**
Devs School · 4 K visualizaciones · hace 1 año
31:07
- Blur or Acrylic Effect in .NET MAUI**
Devs School · 5,2 K visualizaciones · hace 1 año
11:57
- NET MAUI UI Challenge # 4 - Fruit application**
Devs School · 2,5 K visualizaciones · hace 1 año
17:54
- Design Like a Pro: Custom Image Borders in .NET MAUI**
Devs School · 1,7 K visualizaciones · hace 1 año
11:46
- .NET MAUI UI Challenge # 5 - Food Delivery App**
Devs School · 22 K visualizaciones · hace 1 año
27:08

Code Generators for .NET MAUI from Figma



From Figma to .NET MAUI Graphics

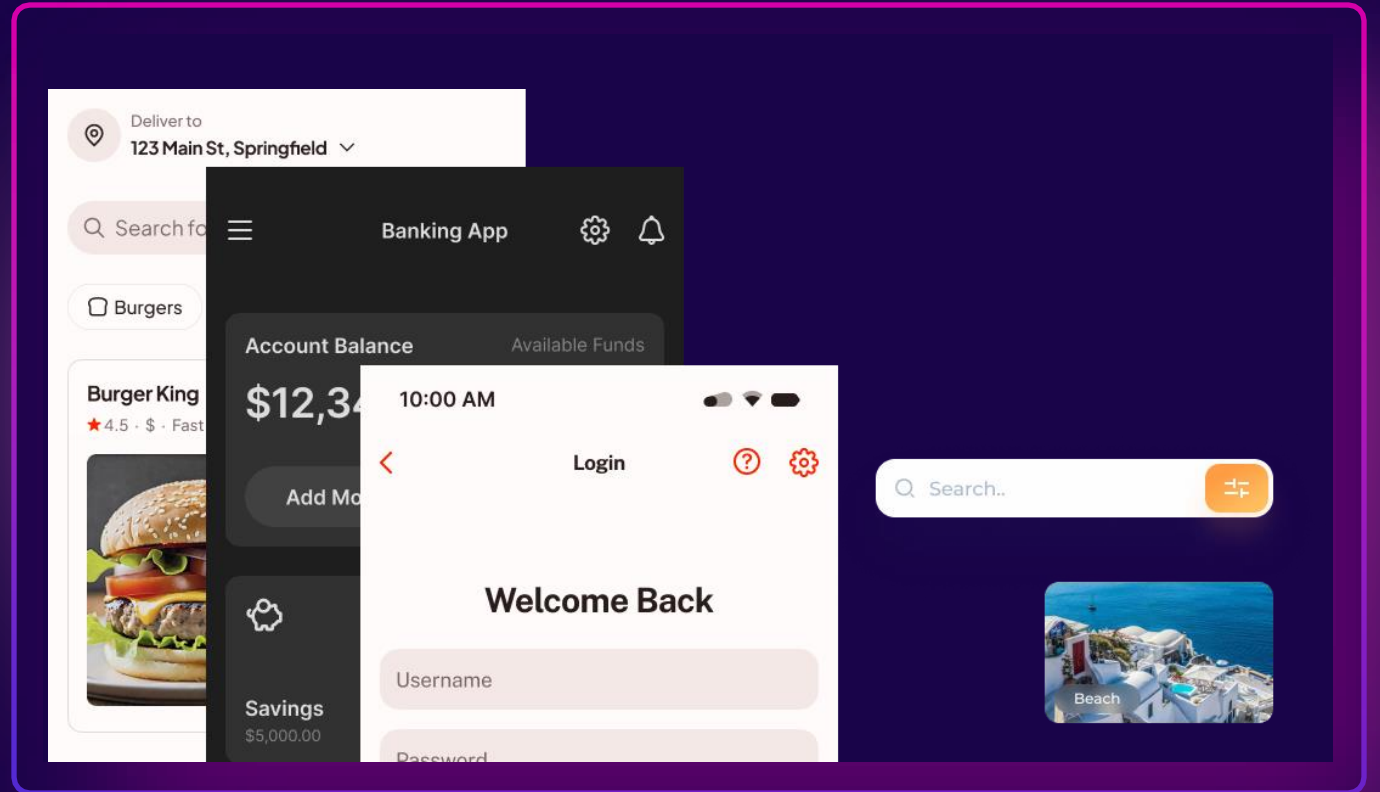


Uno Platform for Figma

The challenge

Key Differentiators

- Pre-designed Controls for Copying and Pasting
- Reusable Components for Applications
- Full Application Screens for Rapid Development



It's essential to choose the best technology stack



Blazor

To expose functionality, enabling the use of C#, Identity, and other features for rapid development



Microsoft Azure

To host the application, providing scalability as needed along with essential infrastructure

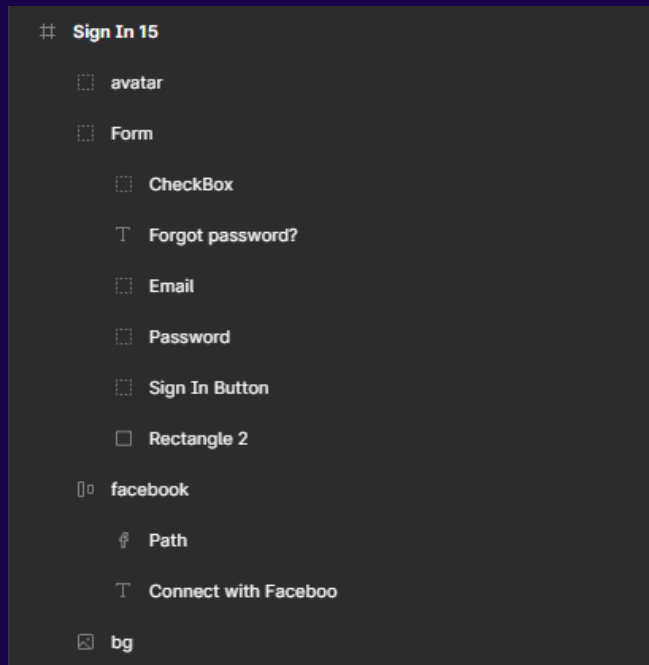


Azure Open AI

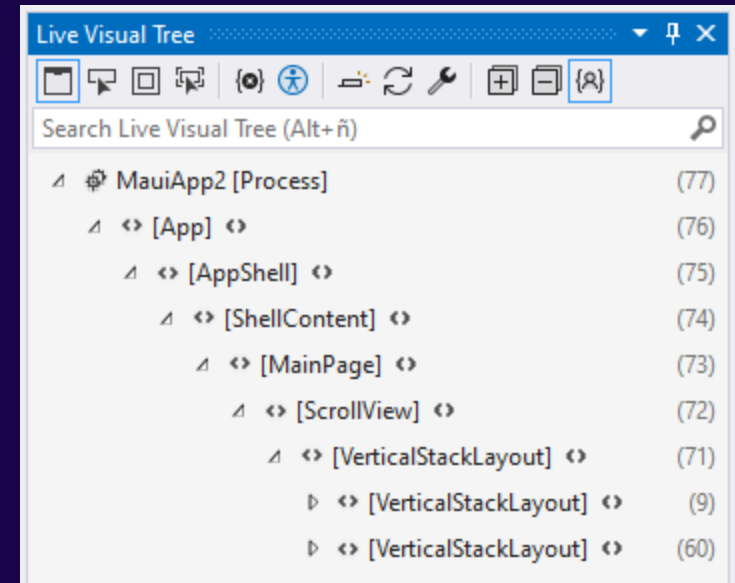
To identify controls in the user interface, helping determine the types of controls that need to be created

The goal is to achieve as close a match as possible between a Figma design and an XAML tree

Figma Tree



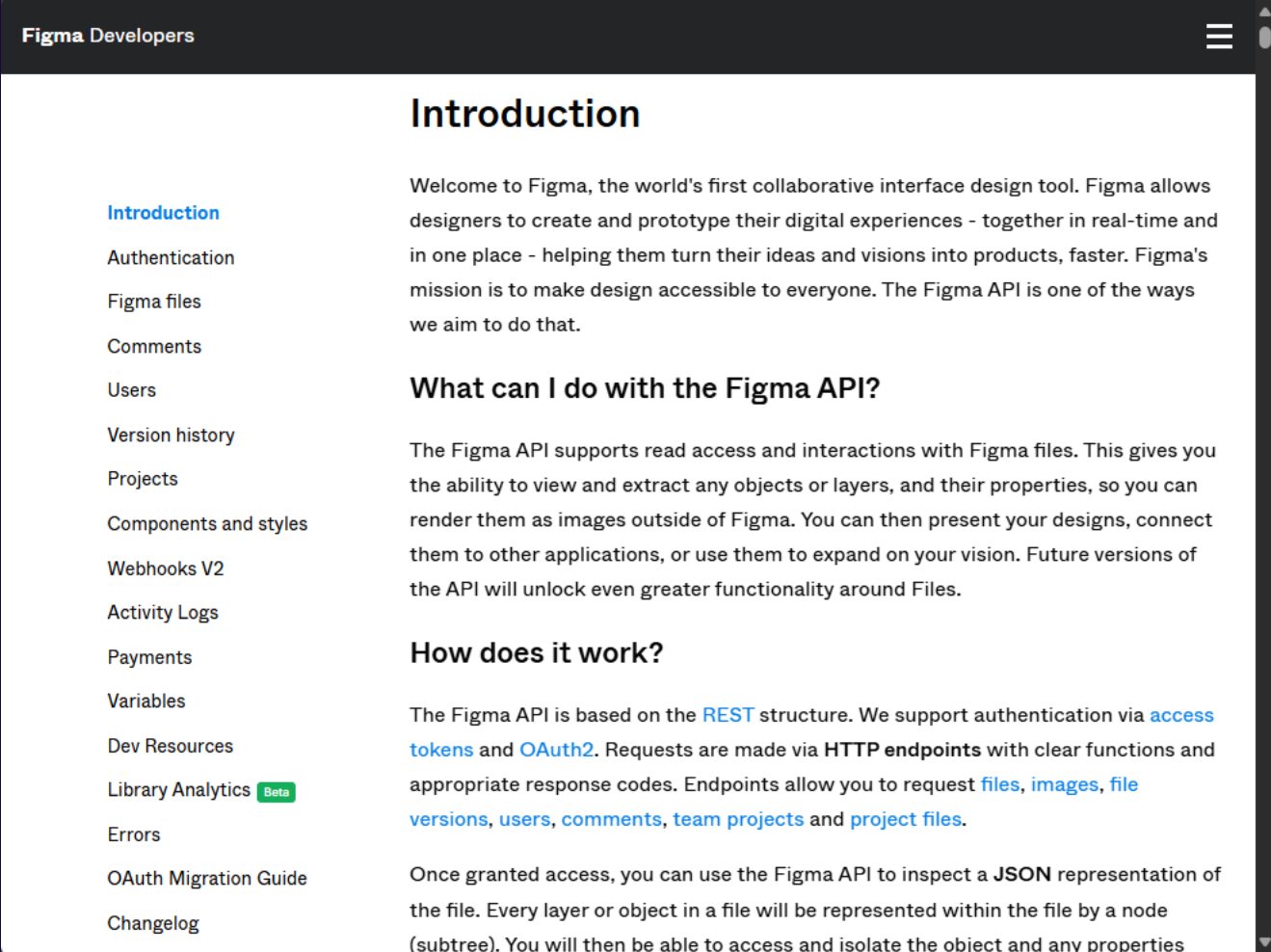
XAML Tree



It all starts with Figma's developer documentation

<https://www.figma.com/developers/api>

The Figma API is an interface that allows developers to access, manipulate, and extract data from Figma designs programmatically



The screenshot shows the 'Figma Developers' website. On the left is a dark sidebar with a list of navigation links: Introduction (highlighted in blue), Authentication, Figma files, Comments, Users, Version history, Projects, Components and styles, Webhooks V2, Activity Logs, Payments, Variables, Dev Resources, Library Analytics (with a green 'Beta' badge), Errors, OAuth Migration Guide, and Changelog. The main content area has a white background. It features a 'Introduction' section with a welcome message about Figma as a collaborative design tool and the purpose of the Figma API. Below this is a section titled 'What can I do with the Figma API?' which describes the API's capabilities for reading and interacting with Figma files. The final section, 'How does it work?', explains that the API uses a REST structure with authentication via access tokens and OAuth2, and lists various resources accessible through HTTP endpoints. The page includes a hamburger menu icon in the top right corner of the sidebar.

Figma Developers

Introduction

Welcome to Figma, the world's first collaborative interface design tool. Figma allows designers to create and prototype their digital experiences - together in real-time and in one place - helping them turn their ideas and visions into products, faster. Figma's mission is to make design accessible to everyone. The Figma API is one of the ways we aim to do that.

What can I do with the Figma API?

The Figma API supports read access and interactions with Figma files. This gives you the ability to view and extract any objects or layers, and their properties, so you can render them as images outside of Figma. You can then present your designs, connect them to other applications, or use them to expand on your vision. Future versions of the API will unlock even greater functionality around Files.

How does it work?

The Figma API is based on the [REST](#) structure. We support authentication via [access tokens](#) and [OAuth2](#). Requests are made via [HTTP endpoints](#) with clear functions and appropriate response codes. Endpoints allow you to request [files](#), [images](#), [file versions](#), [users](#), [comments](#), [team projects](#) and [project files](#).

Once granted access, you can use the Figma API to inspect a **JSON** representation of the file. Every layer or object in a file will be represented within the file by a node (subtree). You will then be able to access and isolate the object and any properties



Demo: Creating a project with the fundamentals of XAMLIFY



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Thank you

