





By Arun Pal



About Me



Arun Kumar Pal

Sr. Software Developer in miniOrange

5+ years in cyber security domain

4+ years in Browser Extension development

Anime enthusiast



Password Paradox

Addressing the elephant in the room





Password Insecurity: By the numbers



24 Billion +

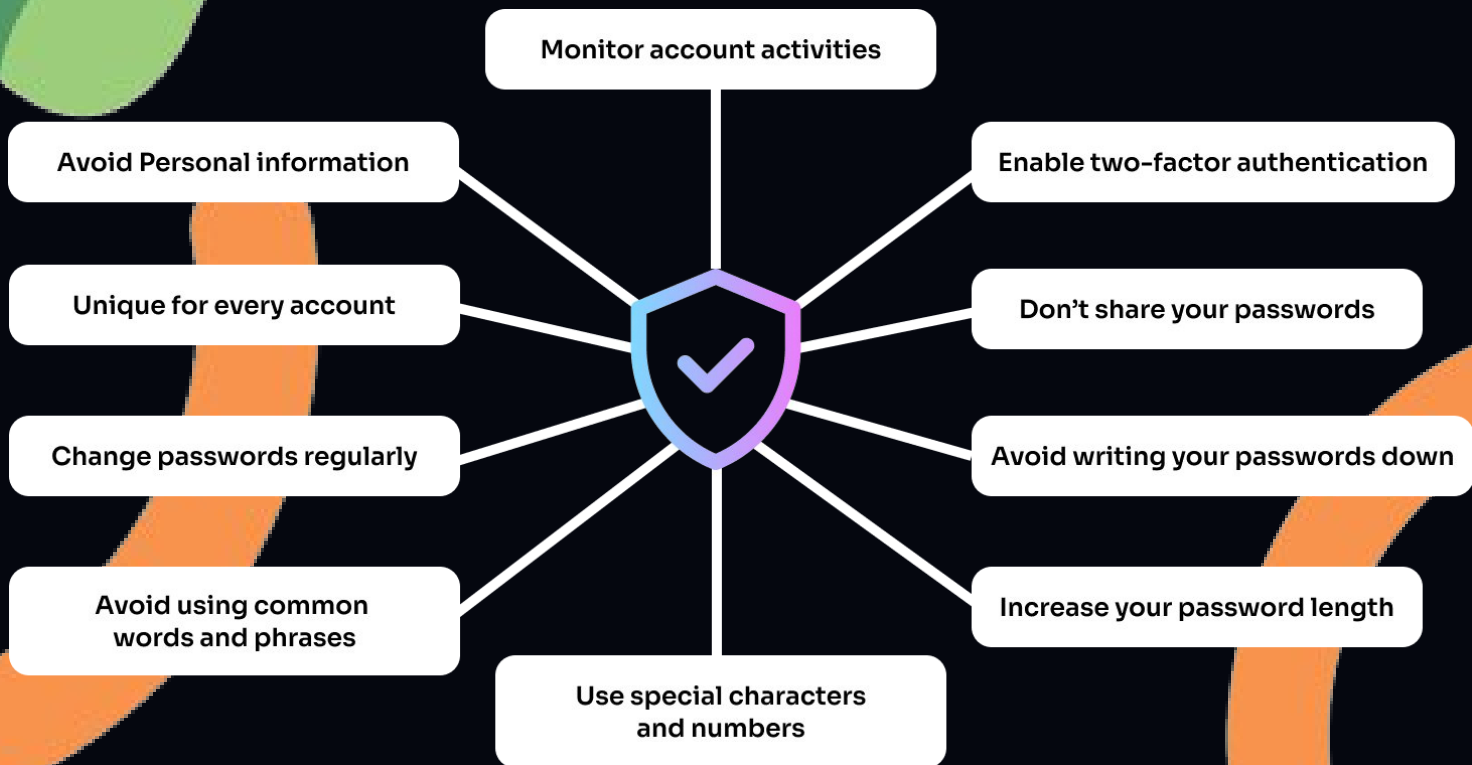
Sets of users' credentials exposed on cybercriminal marketplaces as of 2022



More than 80% of confirmed breaches are related to stolen, weak, or reused passwords



What makes a password strong?





The problem

30+

30-40 Personal
Applications per
individual

150+

150+ Employee
credentials



The problem



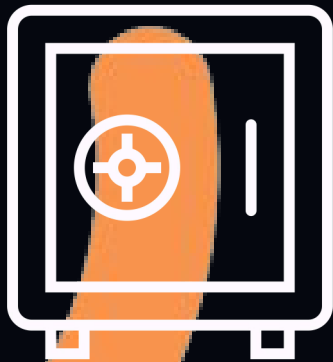


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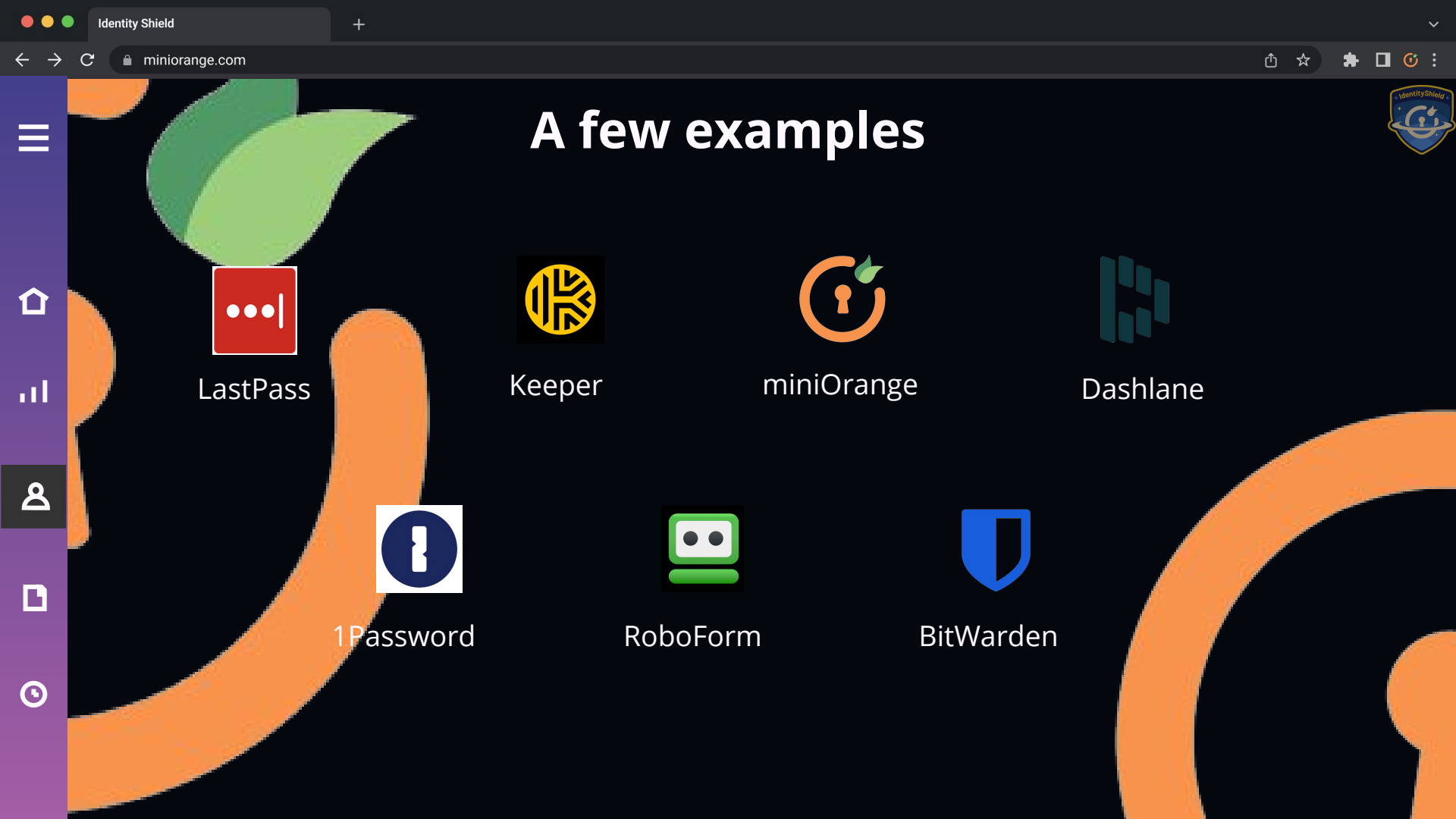
Password Vaults



Password Vaults



- A secured and centralized repository for all your passwords
- One click autofill



A few examples



LastPass



Keeper



miniOrange



Dashlane



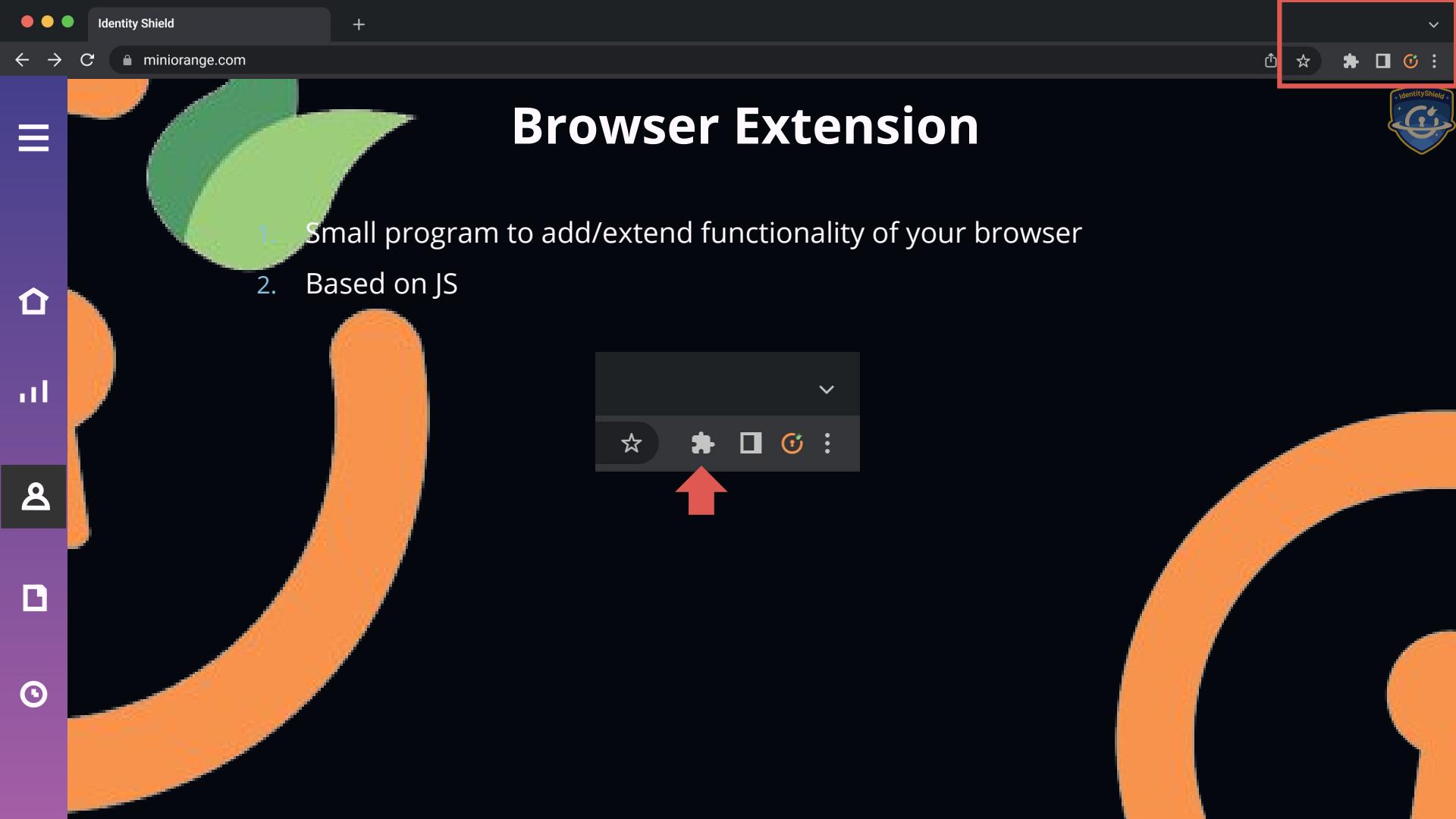
1Password



RoboForm

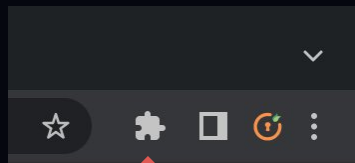


BitWarden



Browser Extension

1. Small program to add/extend functionality of your browser
2. Based on JS





Sign In with your credentials

Enter your username or email here.

Login

[Forgot Password?](#)

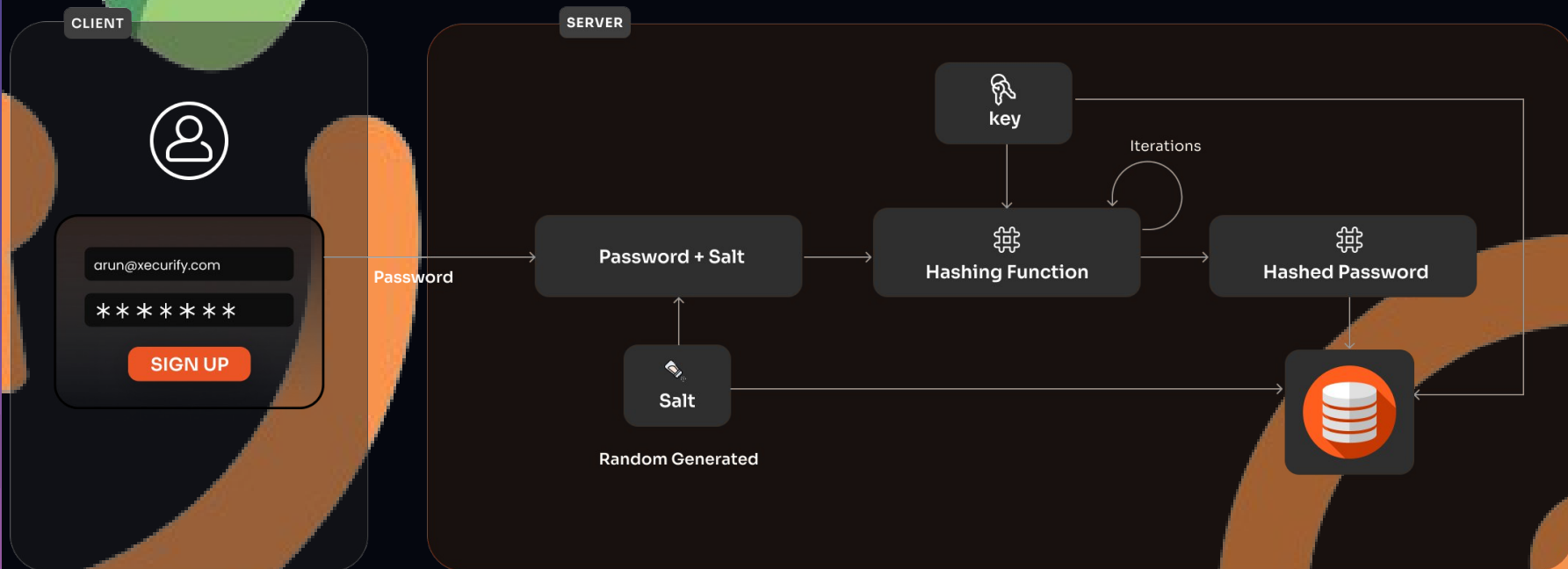
[Create an account](#)



Understanding the Working of Vault

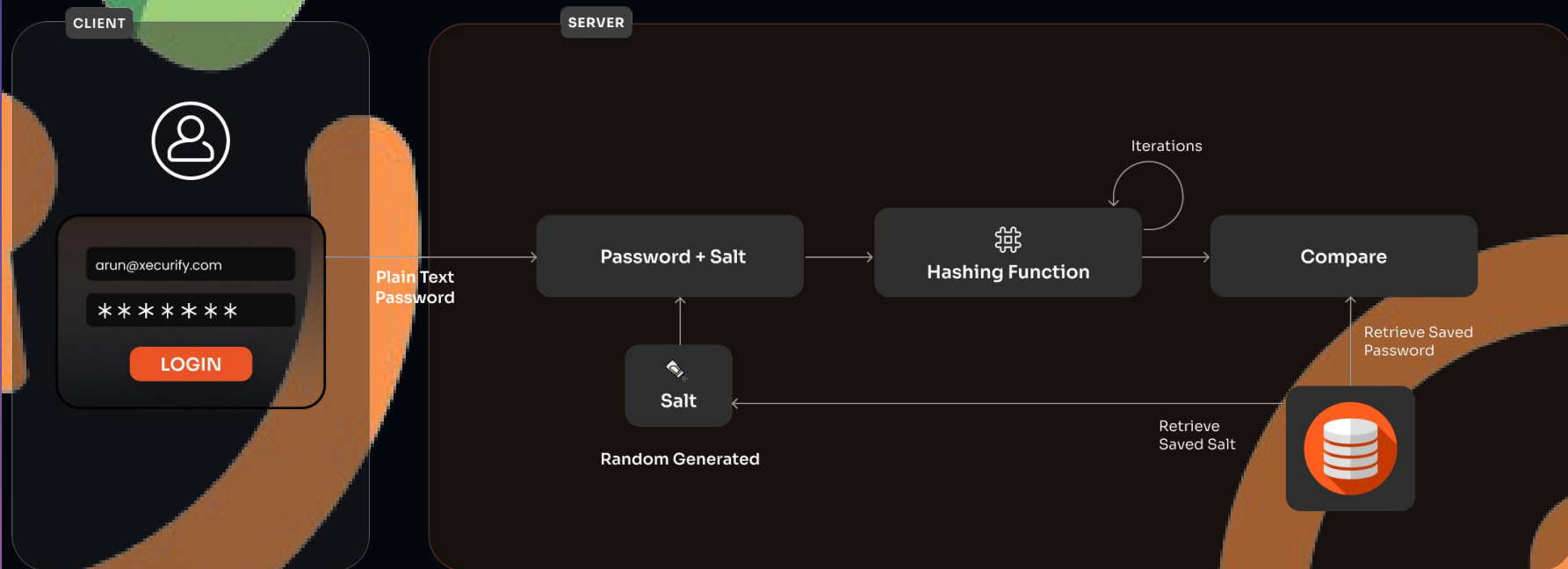


Working of Vault



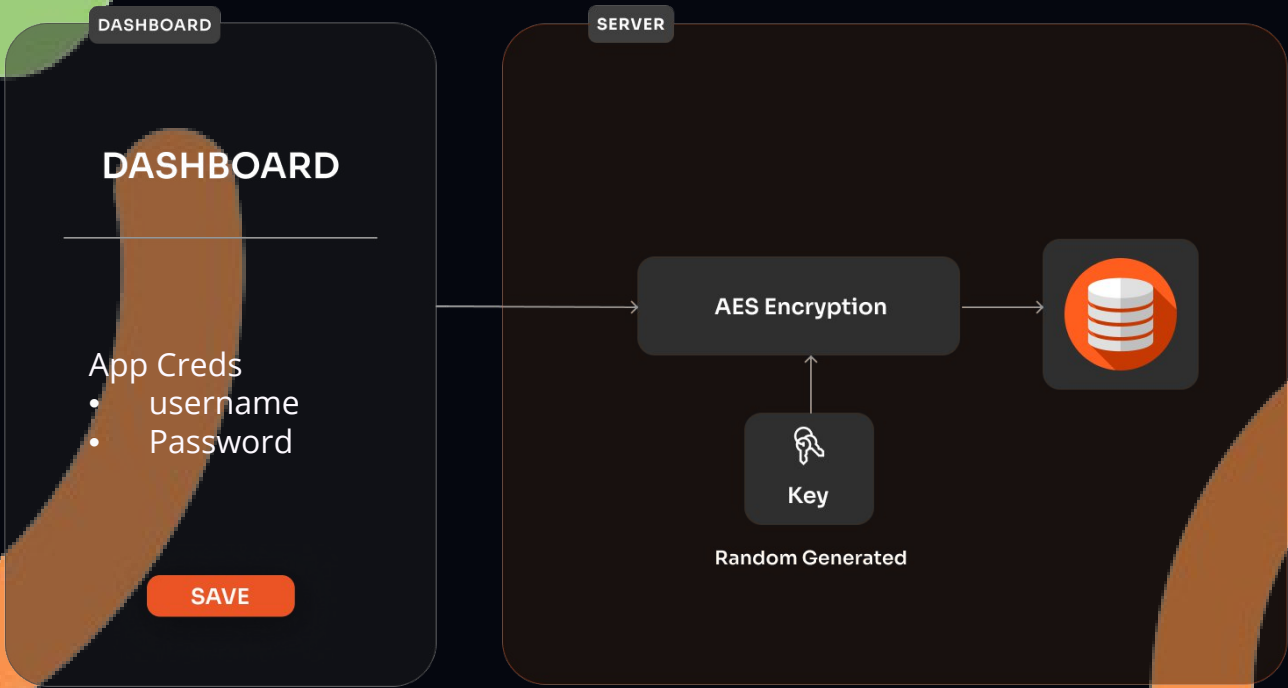


Working of Vault





Working of Vault



DASHBOARD

DASHBOARD

App Creds

- username
- Password

SAVE

SERVER

AES Encryption



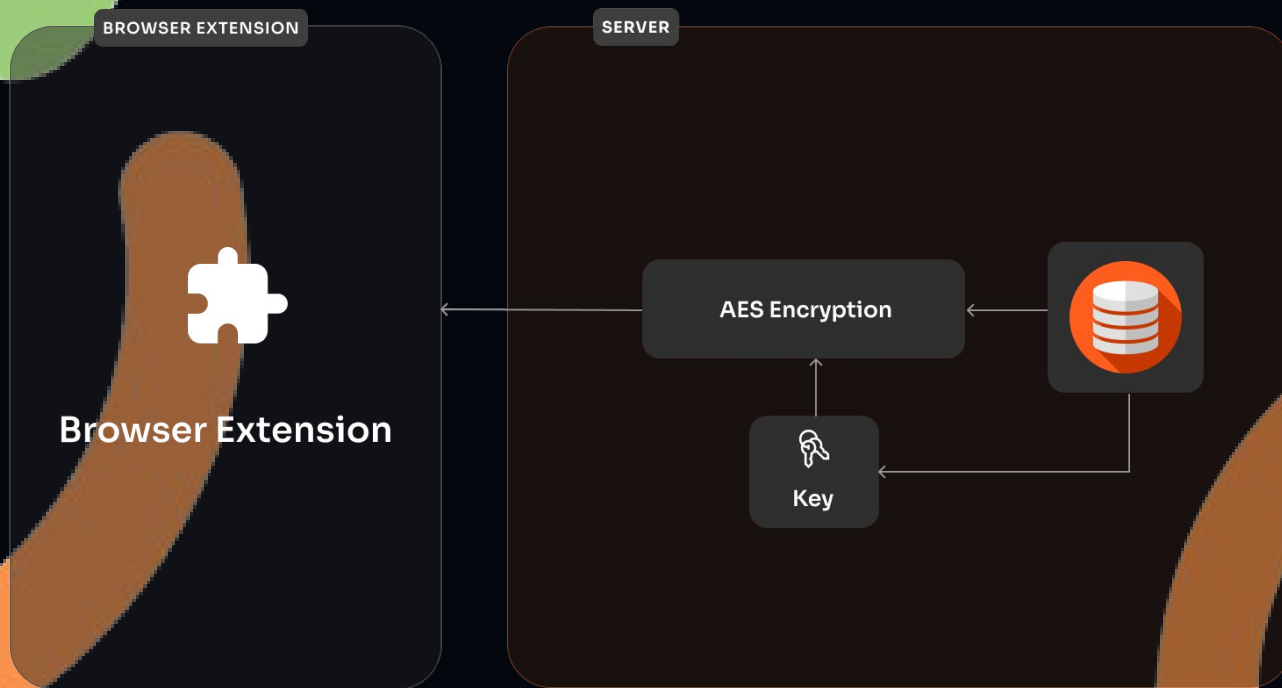
Key

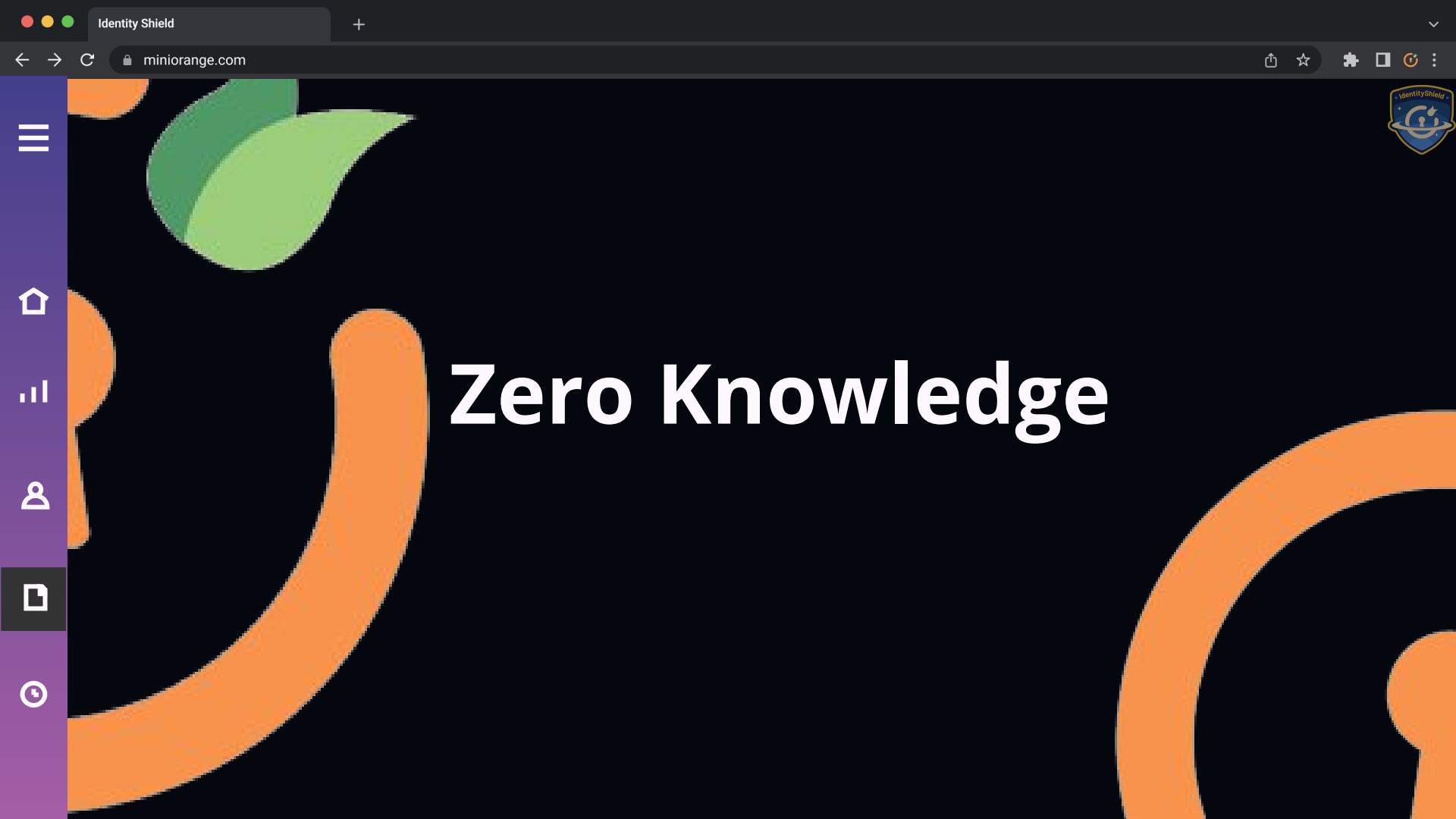
Random Generated





Working of Vault

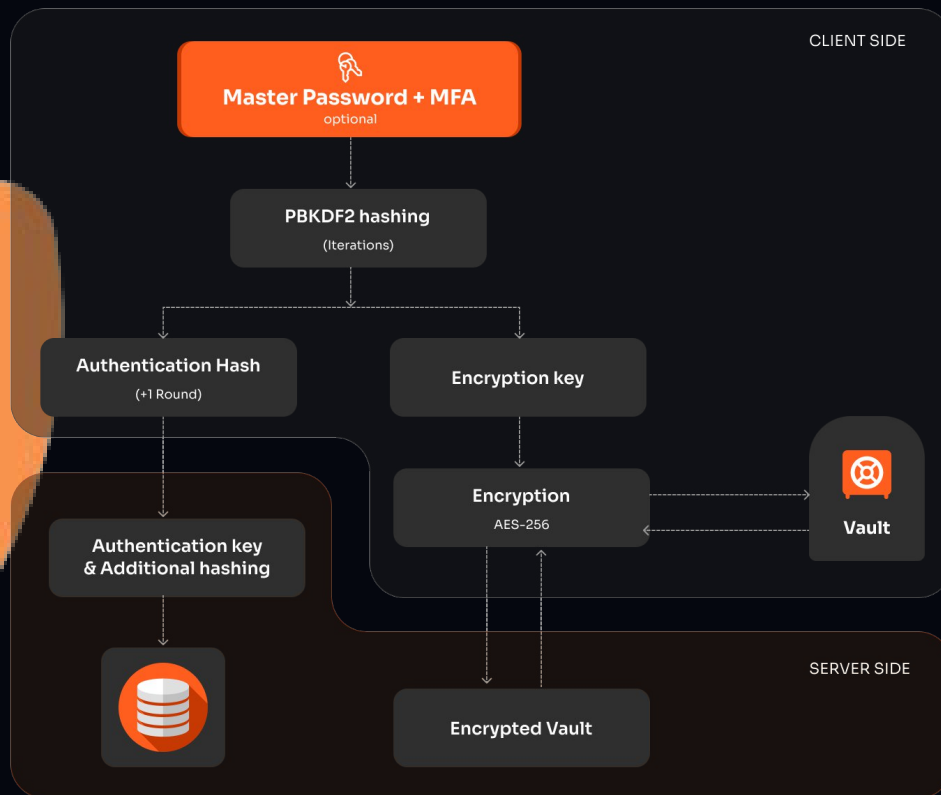


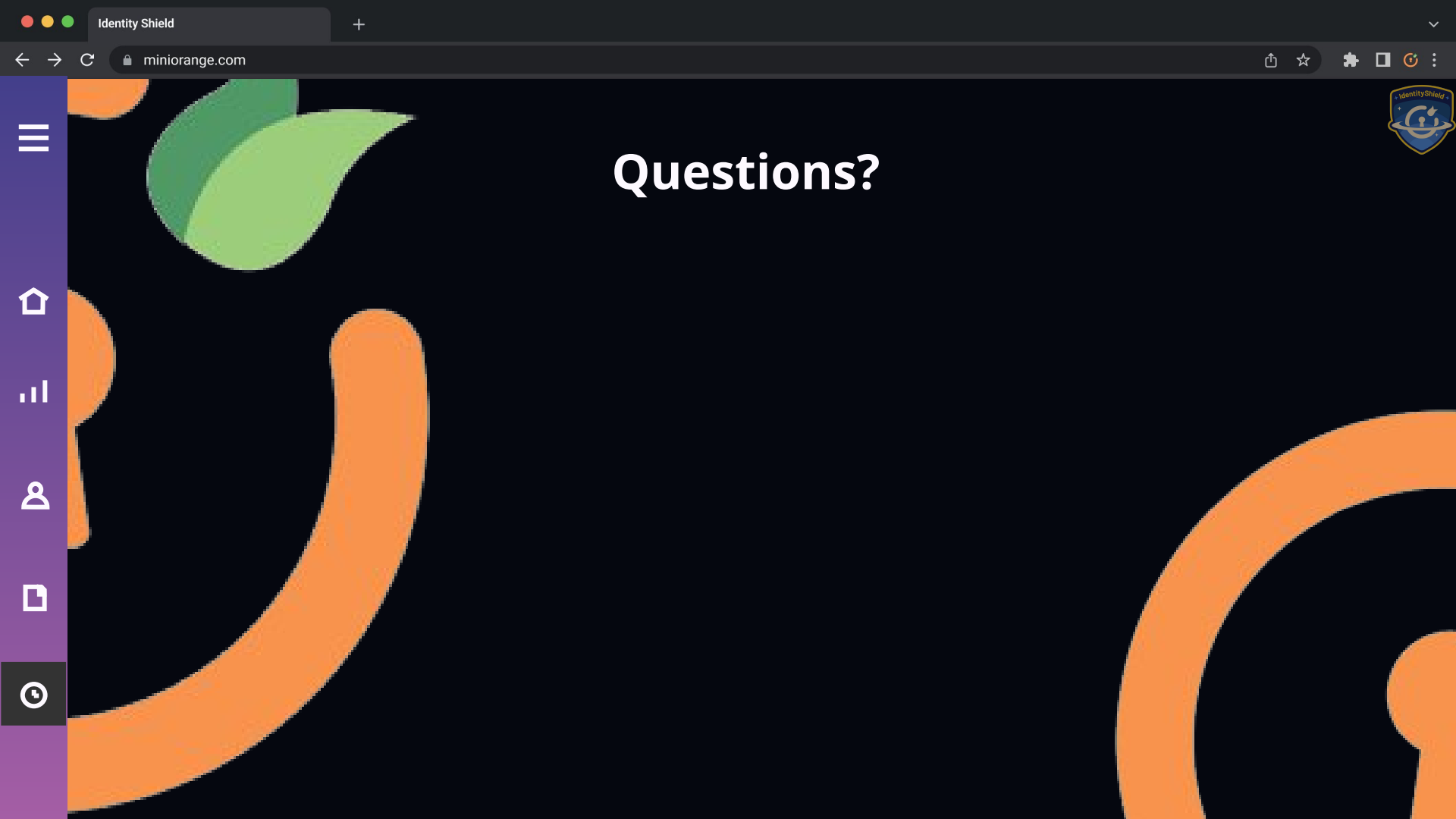


Zero Knowledge



Zero Knowledge workflow





Questions?



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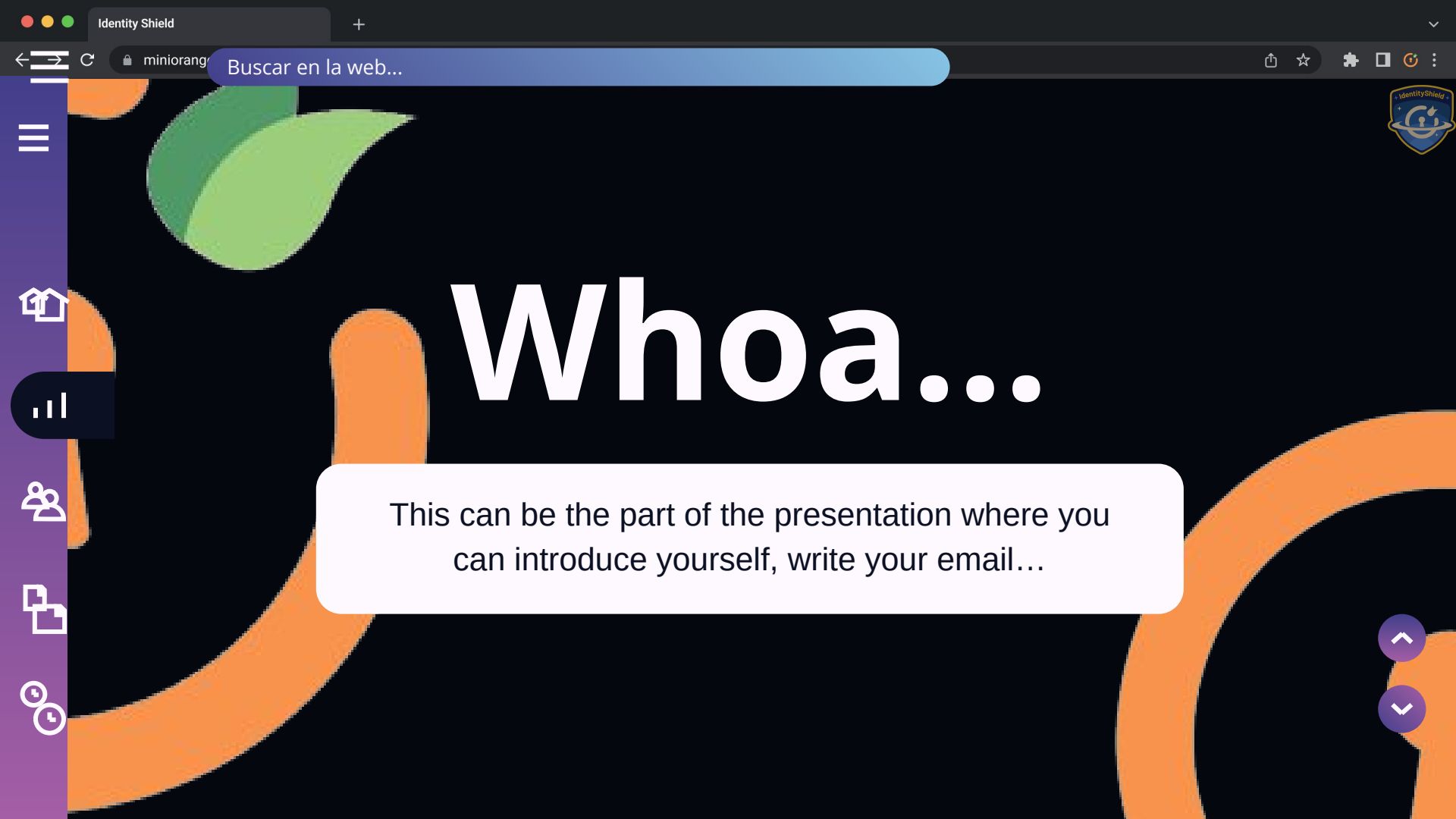
Templates with WordArts

hello!

This is WordArt text. If you want to modify it:

- Double-click on it
- Type your new text in the dialog box
- You can change the fill color in the top menu
- You can also modify the stroke, its color, thickness or type
- Press Enter





Whoa...

This can be the part of the presentation where you can introduce yourself, write your email...





Table of contents

01

You can describe the topic of the section here

03

You can describe the topic of the section here

02

You can describe the topic of the section here

04

You can describe the topic of the section here





“This is a **quote**, words full of wisdom that someone important said and can make the reader get inspired.”

—Someone Famous





01

About us

You can enter a subtitle here if you need it





Introduction

1. <https://resources.digitalshadows.com/whitepapers-and-reports/account-takeover-in-2022> | 2. <https://lp-cdn.lastpass.com/lporcamedia/document-library/lastpass/pdf/en/LastPass-Enterprise-The-Password-Expose-Ebook-v2.pdf>

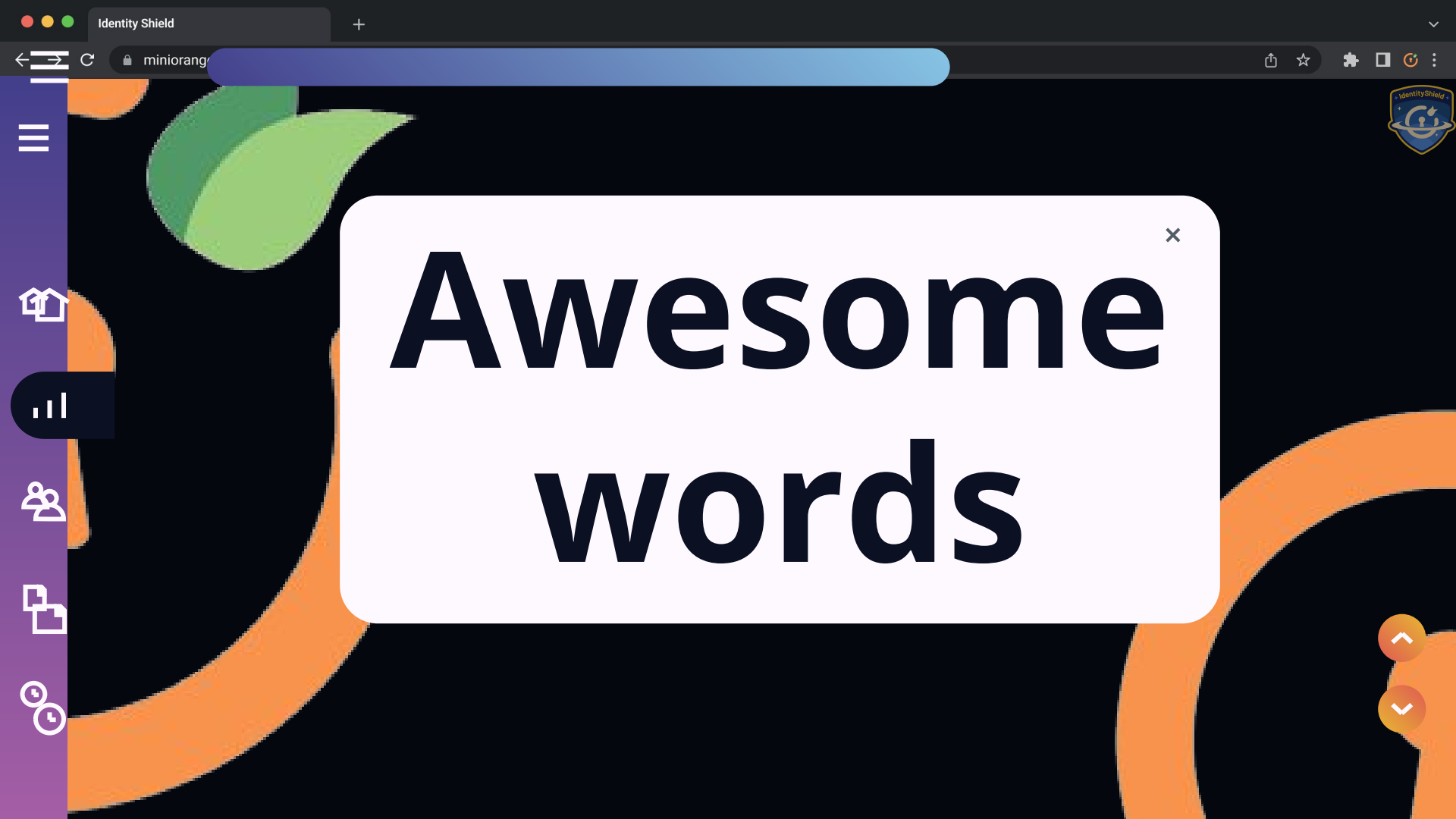
About us



YOUR
LOGO
HERE!

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than the Moon. The planet's name has nothing to do with the liquid metal, since it was named after the Roman messenger god, Mercury





**Awesome
words**



Maybe you need to divide the content

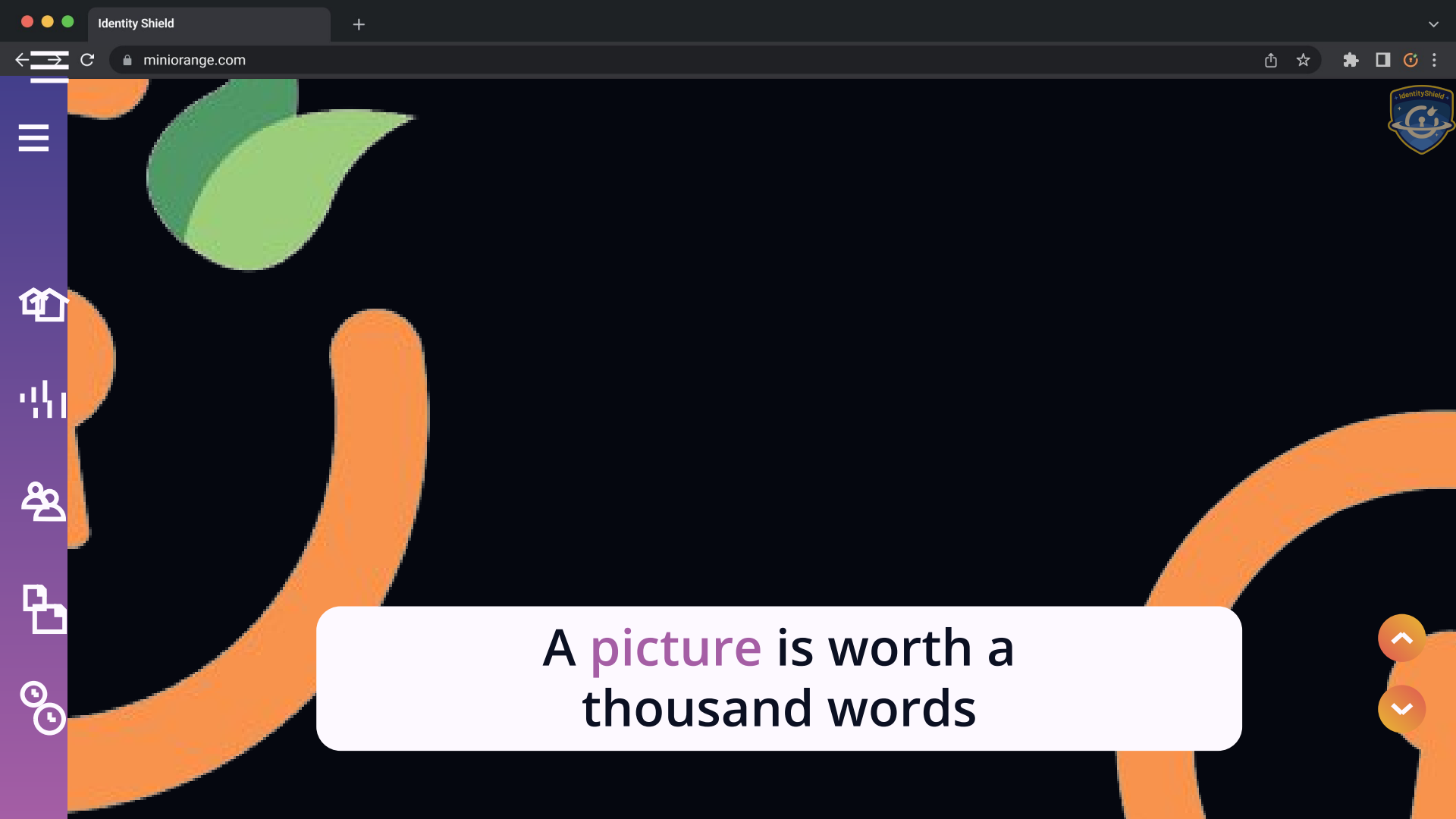


It's the closest planet to the Sun and the smallest in the Solar System



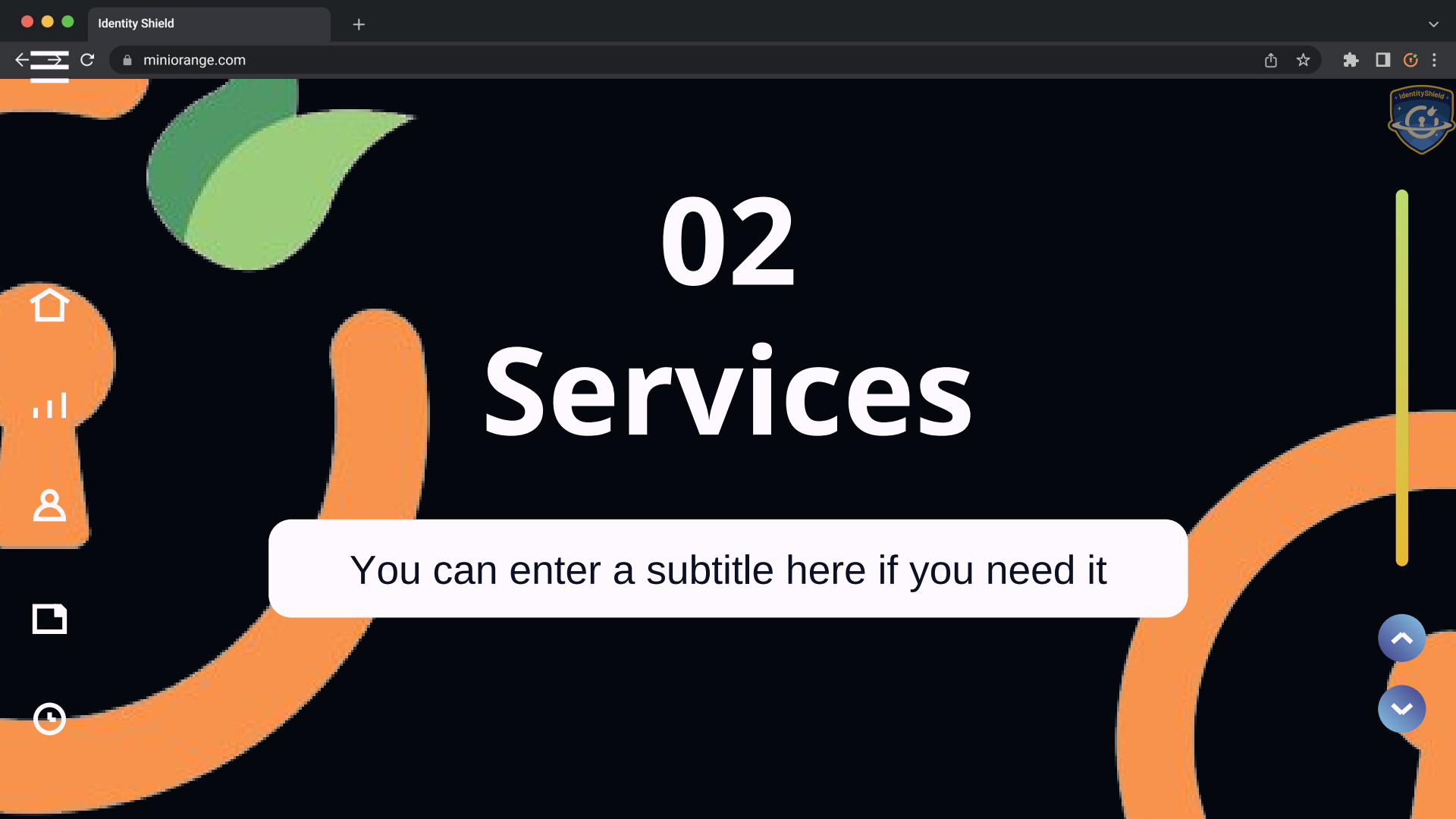
Venus has a beautiful name and it's the second planet from the Sun





A **picture** is worth a thousand words





02

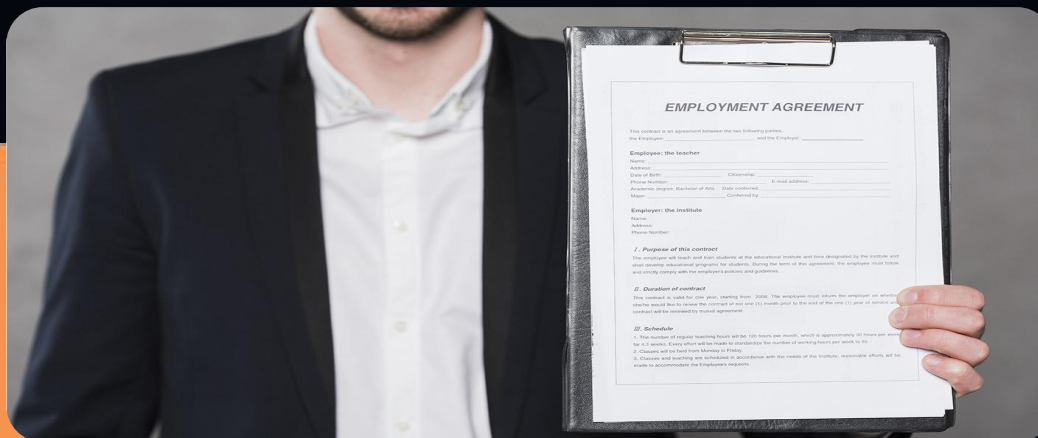
Services

You can enter a subtitle here if you need it





A picture always reinforces the concept



Images reveal large amounts of data, so remember: use an image instead of a long text. Your audience will appreciate that





Our services

Mercury

Mercury is the closest planet to the Sun

Venus has a beautiful name, but it's hot

Despite being red, Mars is a cold place

It's the biggest planet in the Solar System

Saturn is the ringed one and a gas giant

It's the farthest planet from the Sun





The problem

30+

30-40 Personal Applications per individual

150+

150+ Employee credentials





This is a graph

60%

15%

25%

Mercury

Mercury is the closest planet to the Sun

Jupiter

It's the biggest planet in the Solar System

Saturn

Saturn is the ringed one and a gas giant





This is a timeline

Mercury is the closest planet to the Sun

2005

Mars is actually a very cold place

2011

2008

It's the biggest planet in the Solar System

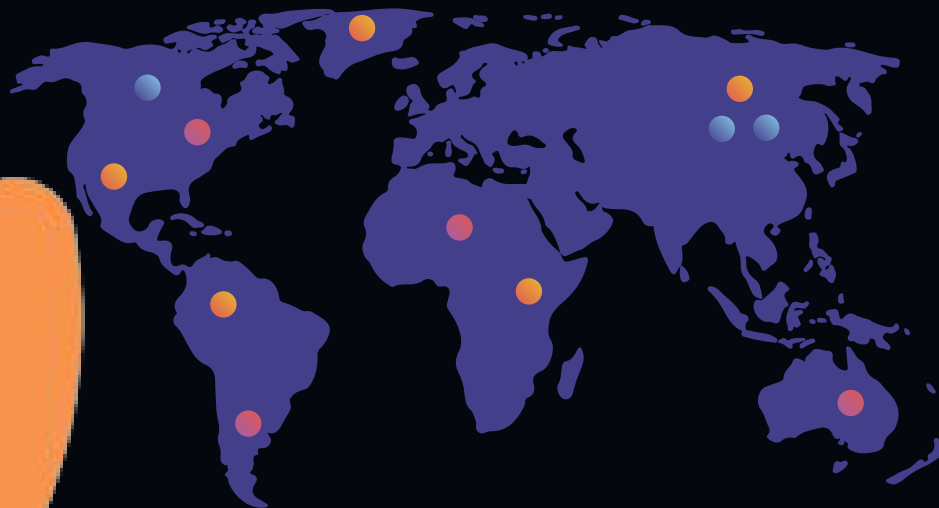
2021

Venus has a beautiful name, but it's hot





This is a map



Mercury

Mercury is the closest planet to the Sun

Jupiter

It's the biggest planet in the Solar System

Saturn

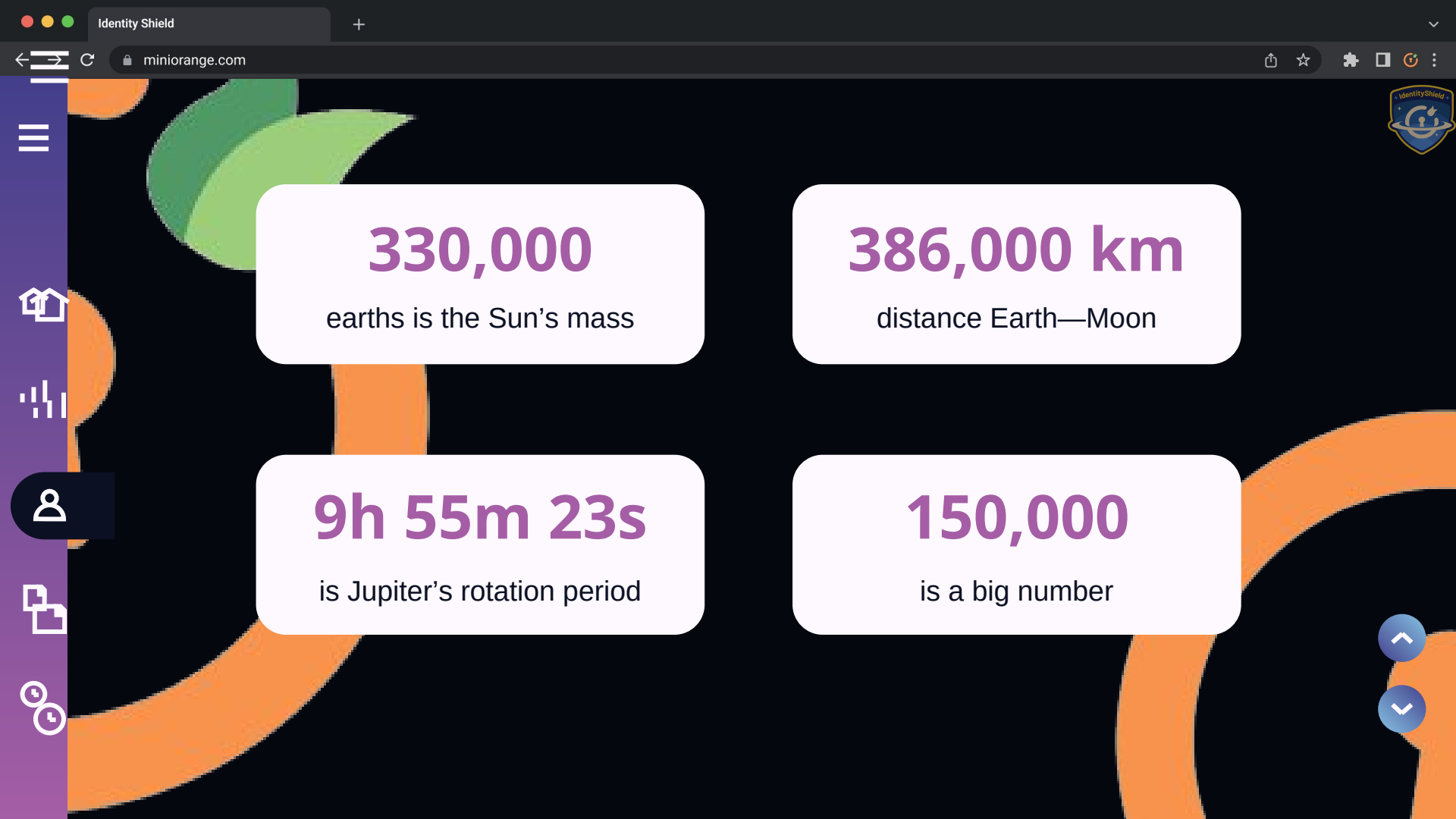
Saturn is the ringed one and a gas giant





33,000
Big numbers catch your audience's attention





330,000

earths is the Sun's mass

386,000 km

distance Earth—Moon

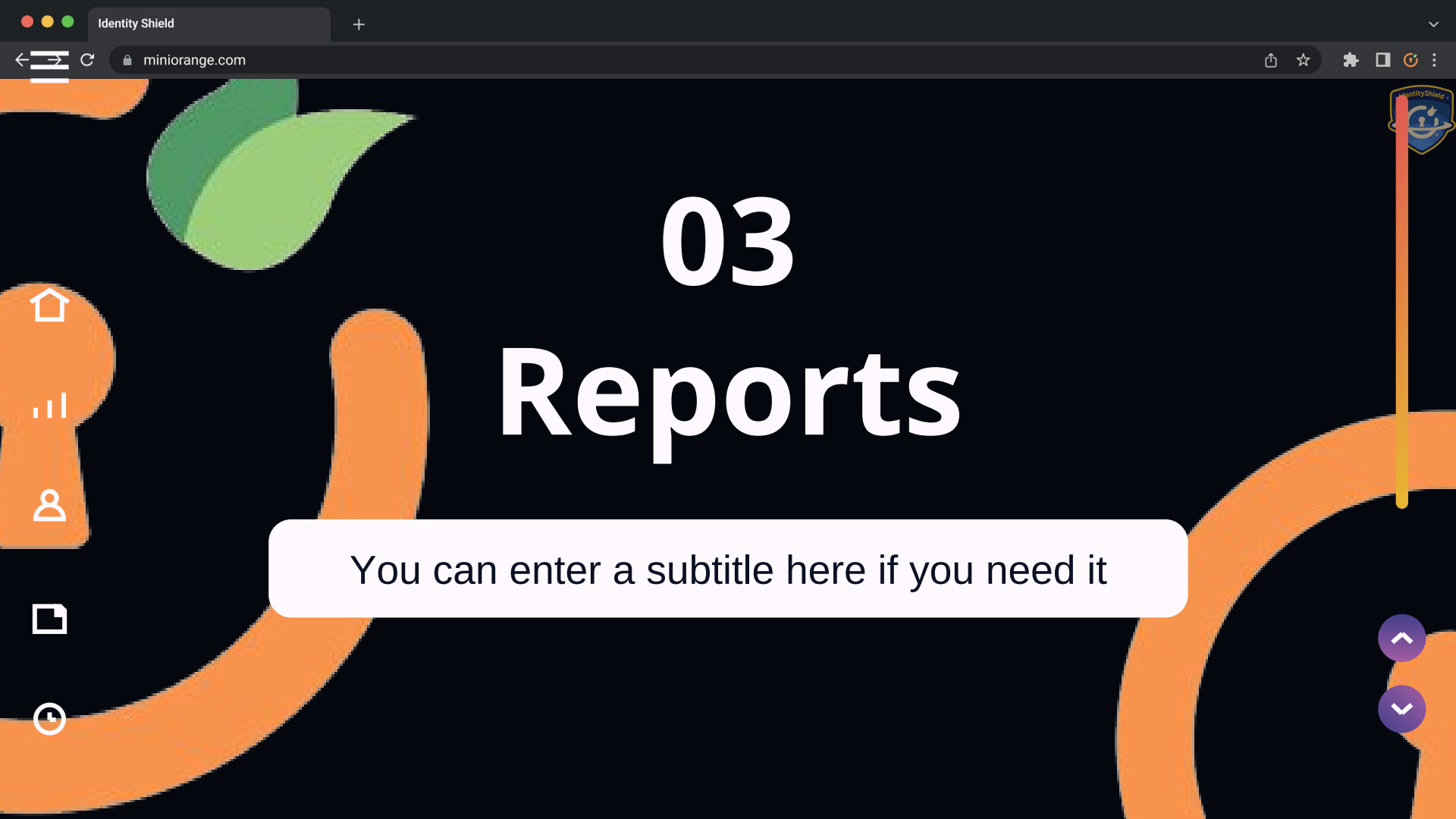
9h 55m 23s

is Jupiter's rotation period

150,000

is a big number





03

Reports

You can enter a subtitle here if you need it



Competitors



Mars is a cold place, not hot. It's full of iron oxide dust, which gives the planet its reddish cast



It's the biggest planet in the System and the fourth-brightest object in the sky



Saturn is the ringed planet. It's a gas giant, composed mostly of hydrogen and helium





This is an infographic



Gallery



Health



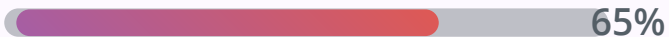
Store



News



Activity resume



Venus



Mars

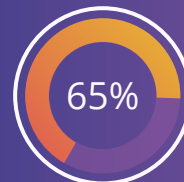


Neptune



Jupiter

Activity numbers



Venus

Venus has a beautiful name and it's hot



Mars

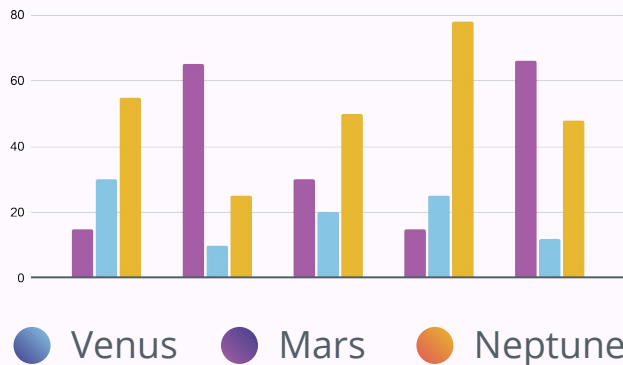
Despite being red, Mars is a cold place





This is an infographic

Activity method ×



* To modify this graph, click on it, follow the link, change the data and paste the new graph here, replacing this one *

Info ×

It's the closest to the Sun and the smallest one



25 August ×



11° | Rainy ×

Calendar ×

1 2 3 4 5 6 7 8 9 10 11 12 13 14
 15 16 17 18 19 20 21 22 23 24 25
 26 27 28 29 30 31





This is an infographic



\$450,226.000



178,055



Demography resume



● Neptune ● Jupiter ● Mars

Demography resume



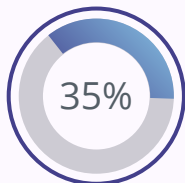
Venus has a beautiful name





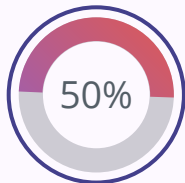
This is an infographic

Activity resource



Mars

Despite being red, Mars is actually a cold place



Neptune

Neptune is the farthest planet from the Sun

Neptune  65%

Mars  75%

1

Mars is a very cold place ×

2

Venus has a beautiful name ×

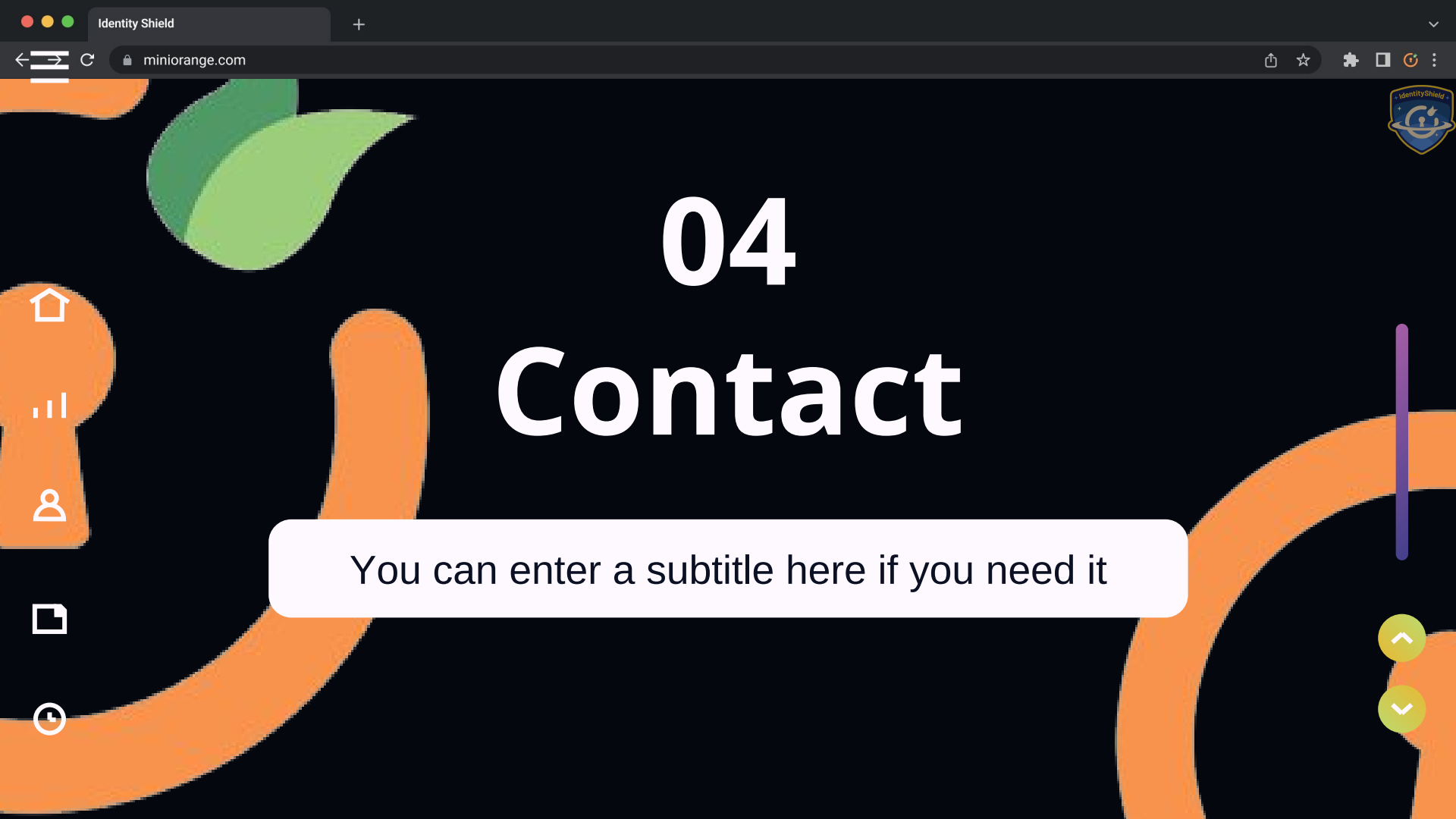
3

Saturn is the ringed planet ×

4

Jupiter is the biggest planet ×





04

Contact

You can enter a subtitle here if you need it





Four columns



Mars

Mars is a cold place. It's full of iron oxide dust



Jupiter

It's the biggest planet in the Solar System



Mercury

Mercury is the closest planet to the Sun



Saturn

Saturn is the ringed planet. It's a gas giant





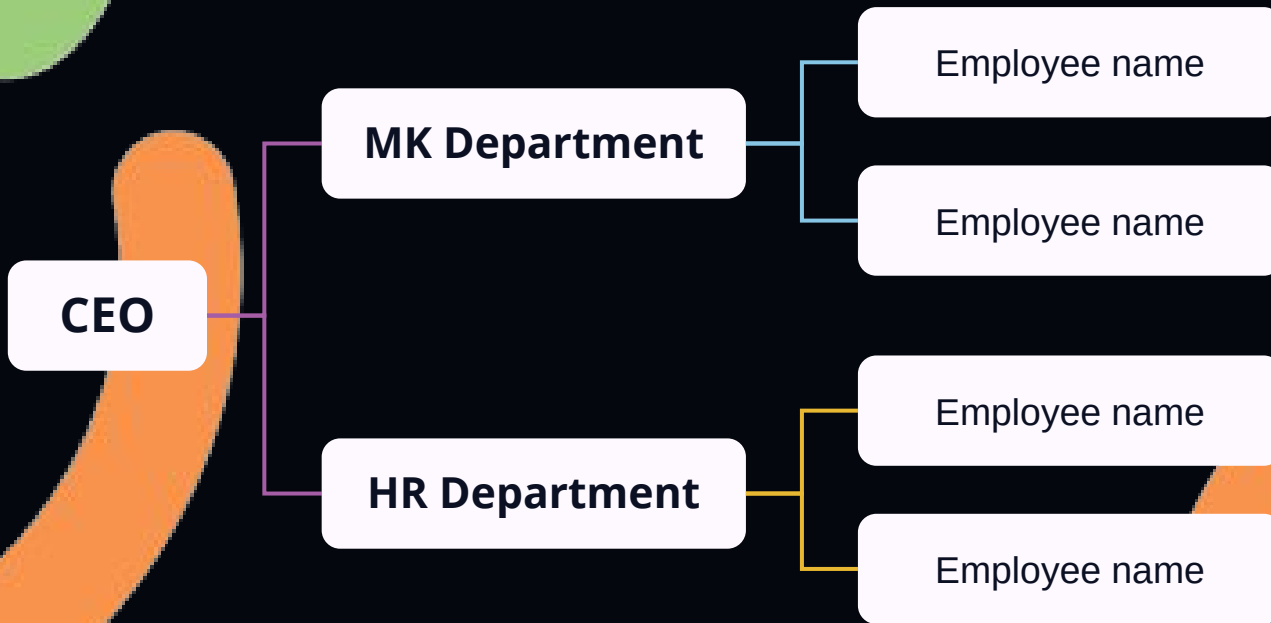
This is a table

	Mars	Jupiter	Neptune	Venus
Time	Write here your metrics	Write here your metrics	Write here your metrics	Write here your metrics
Sales	Write here your metrics	Write here your metrics	Write here your metrics	Write here your metrics
Taxes	Write here your metrics	Write here your metrics	Write here your metrics	Write here your metrics





Organizational chart





Problem vs solution



Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than the Moon



Venus has a very beautiful name and is the second planet from the Sun. It's terribly hot — even hotter than mercury





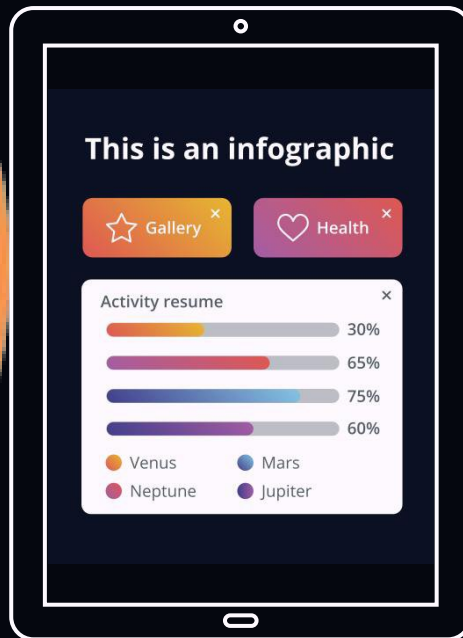
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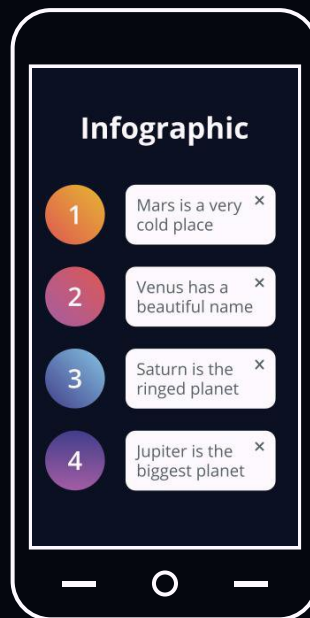
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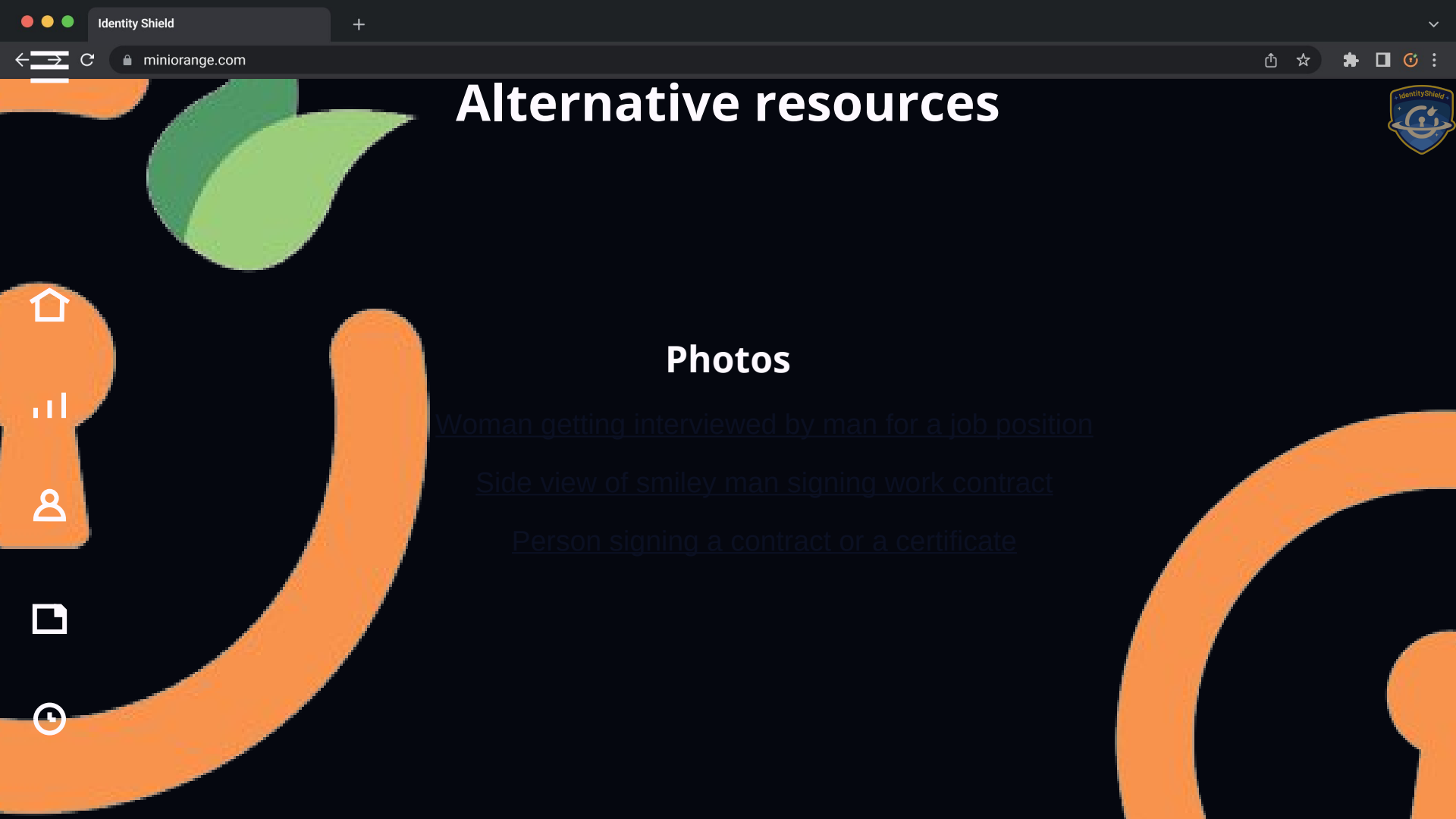
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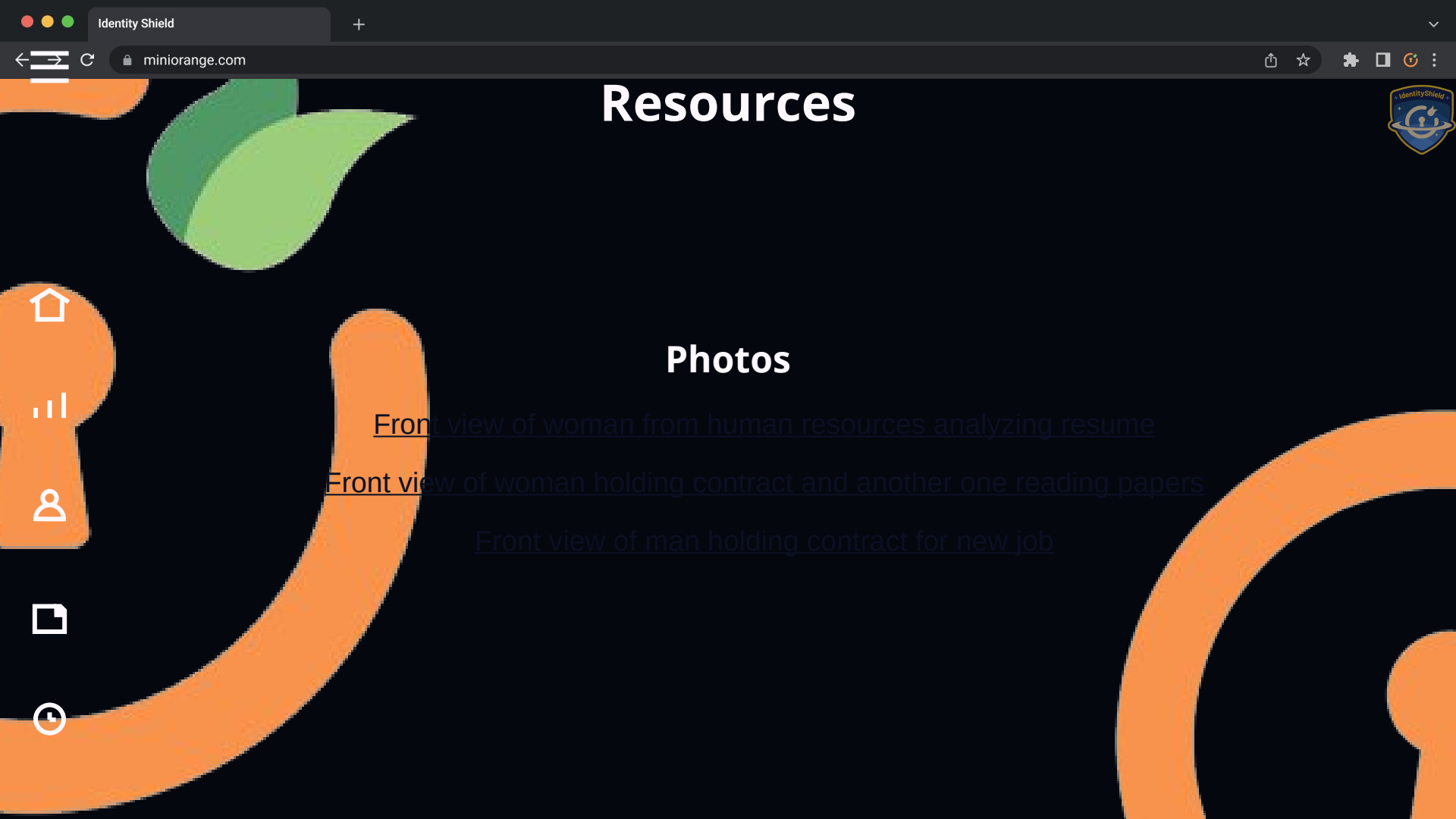
Alternative resources

Photos

[Woman getting interviewed by man for a job position](#)

[Side view of smiley man signing work contract](#)

[Person signing a contract or a certificate](#)



Resources



Photos

[Front view of woman from human resources analyzing resume](#)

[Front view of woman holding contract and another one reading papers](#)

[Front view of man holding contract for new job](#)

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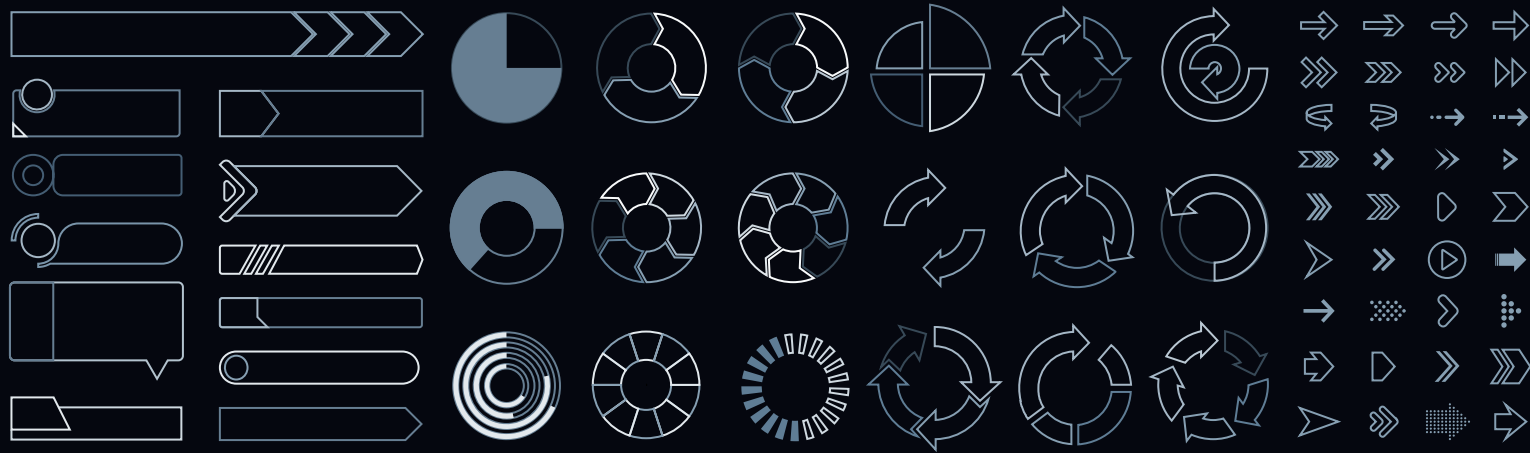


[Cuate](#)

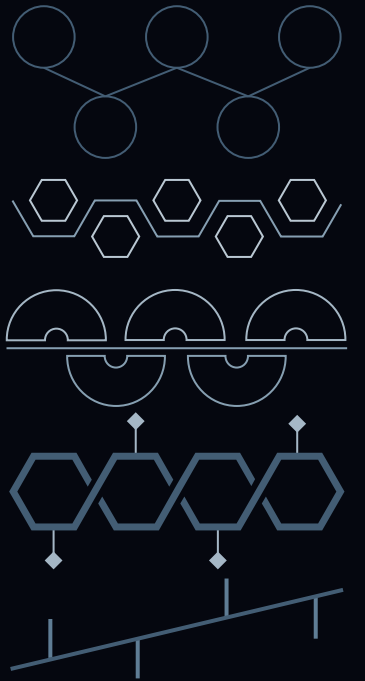
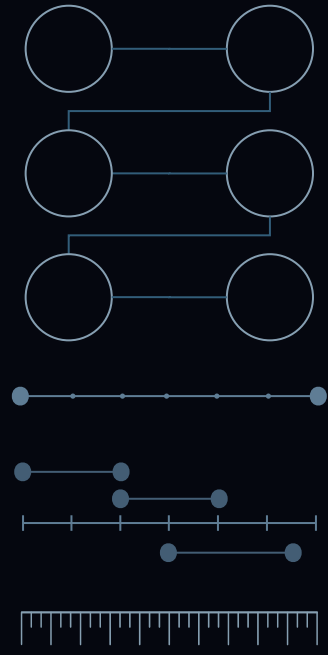
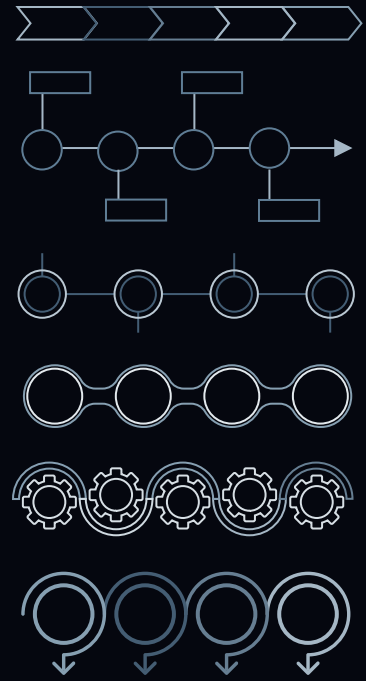
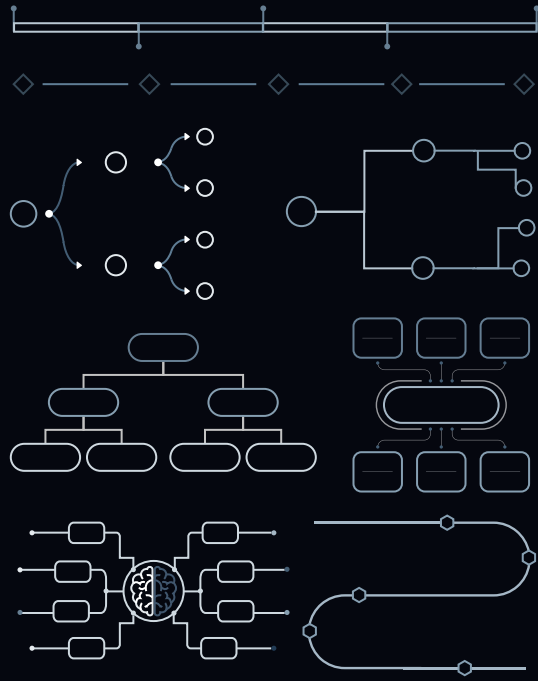
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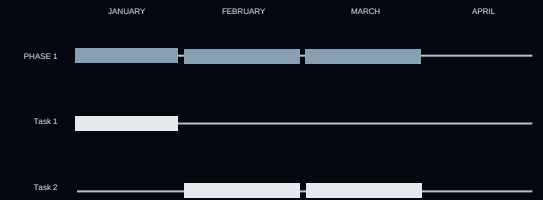
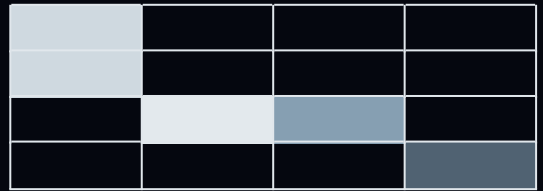
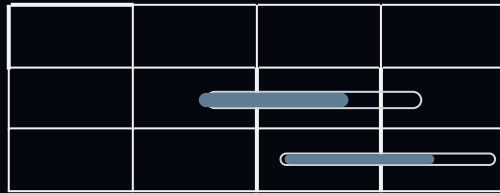
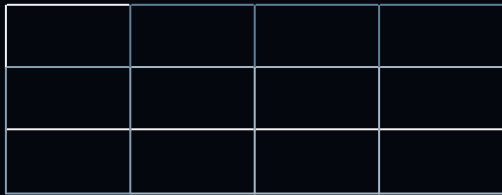
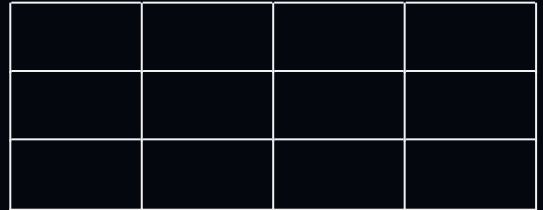
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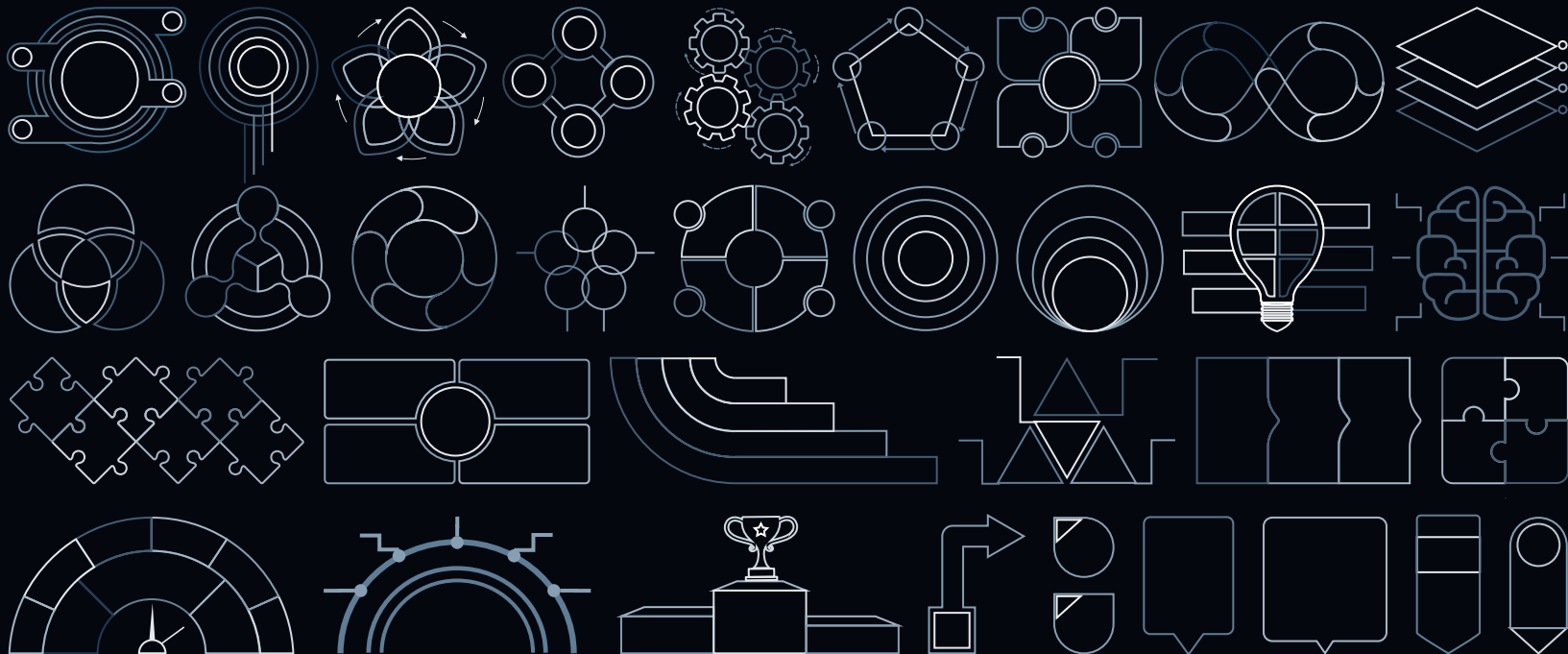
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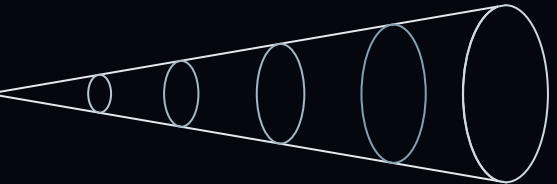
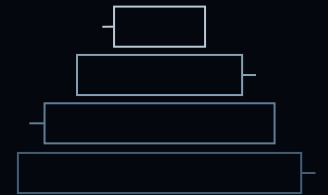
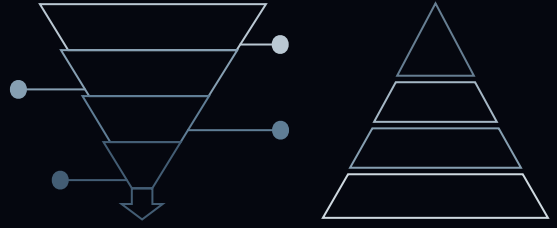
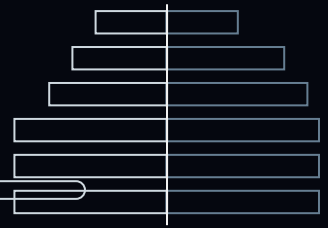
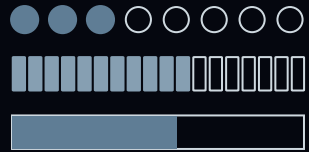
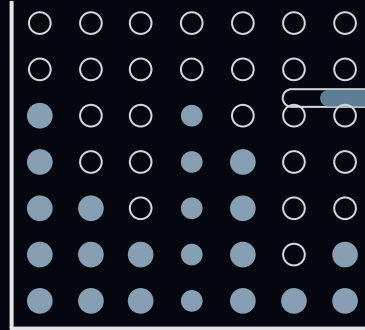
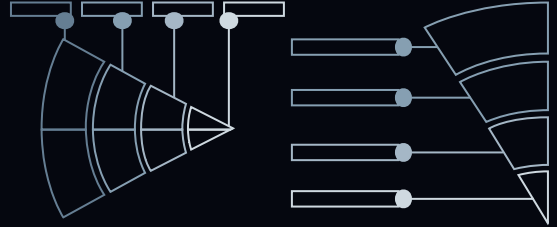
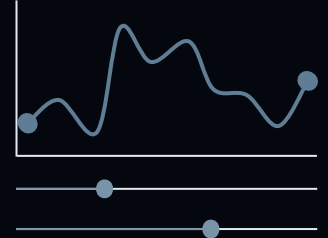
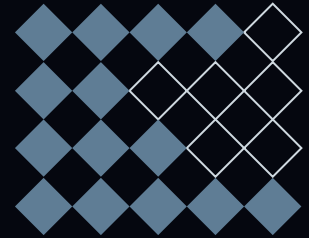
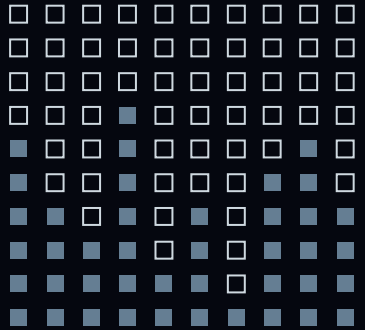












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Business Icons



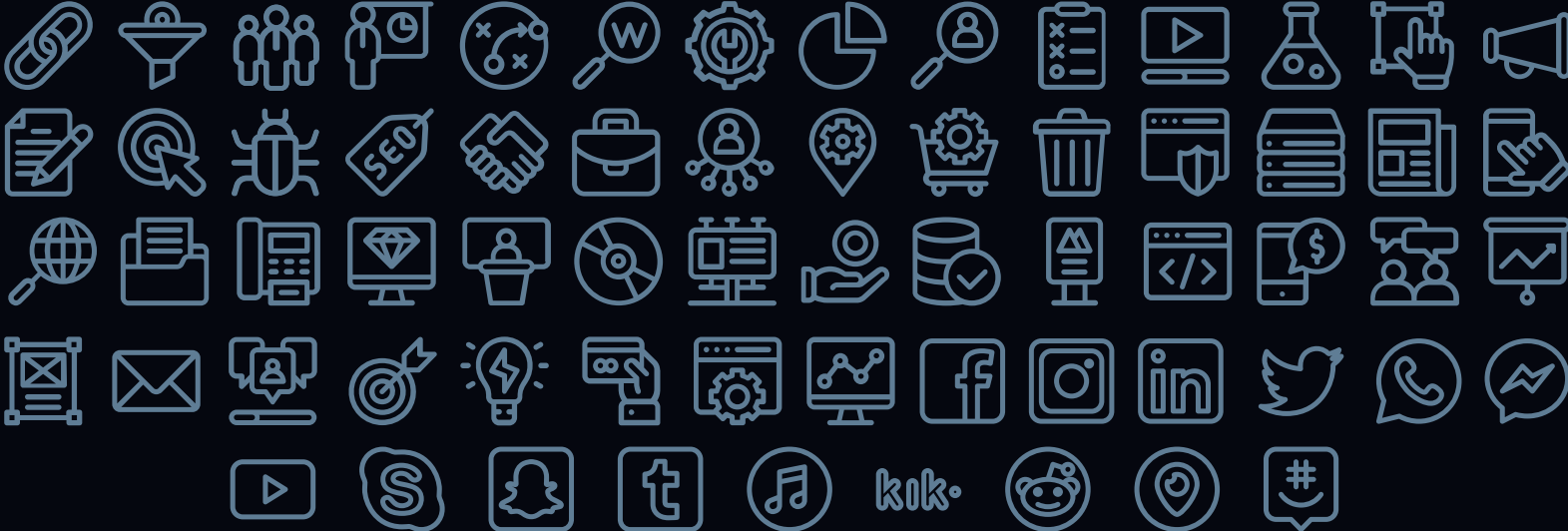
Teamwork Icons



Nature Icons



SEO & Marketing Icons







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