

October 27, 2023

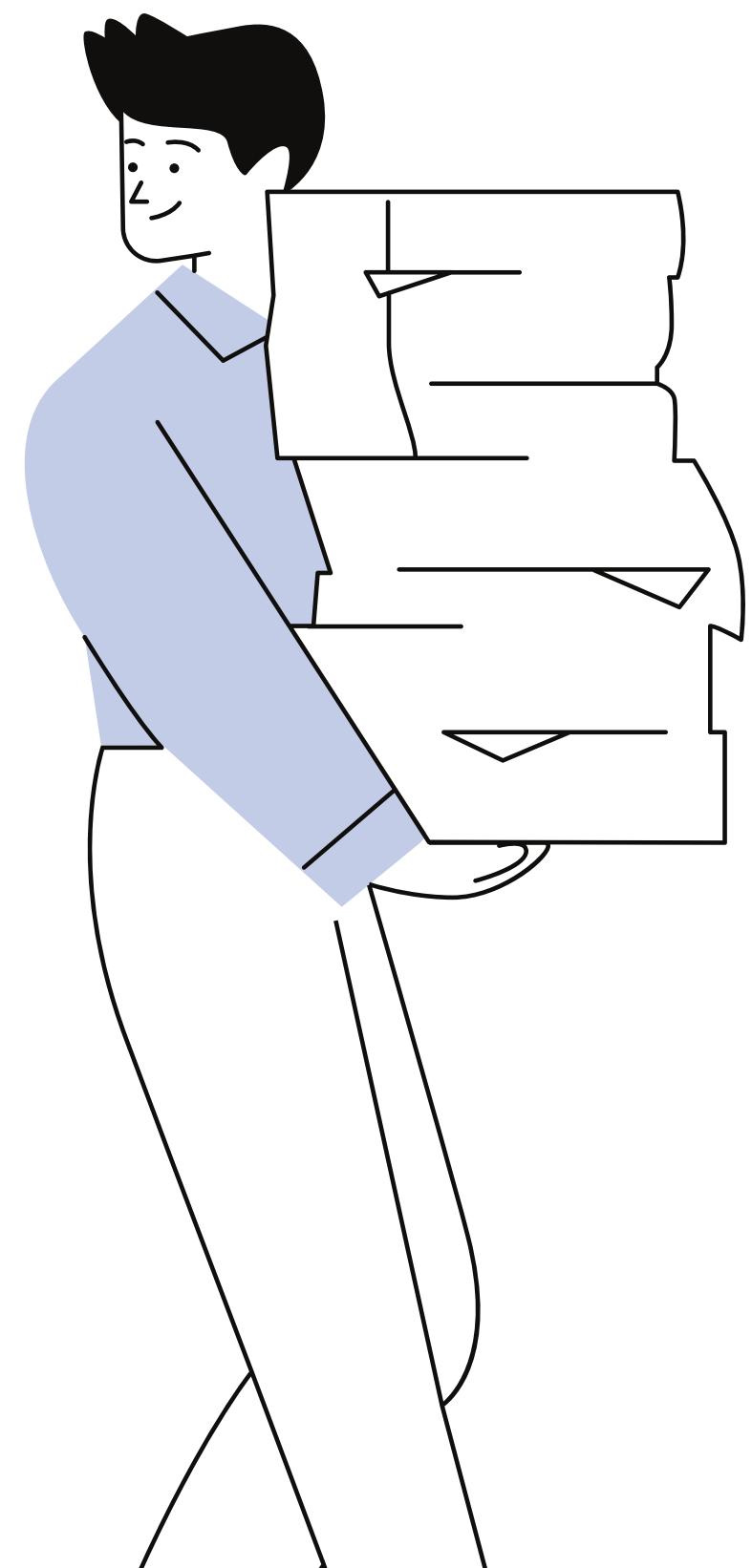
NotaryNow

Prepared by

Javaria Naveed 19L-1229

Muhammad Ibtasam 20L-0901

Muhammad Usaid 20L-2062



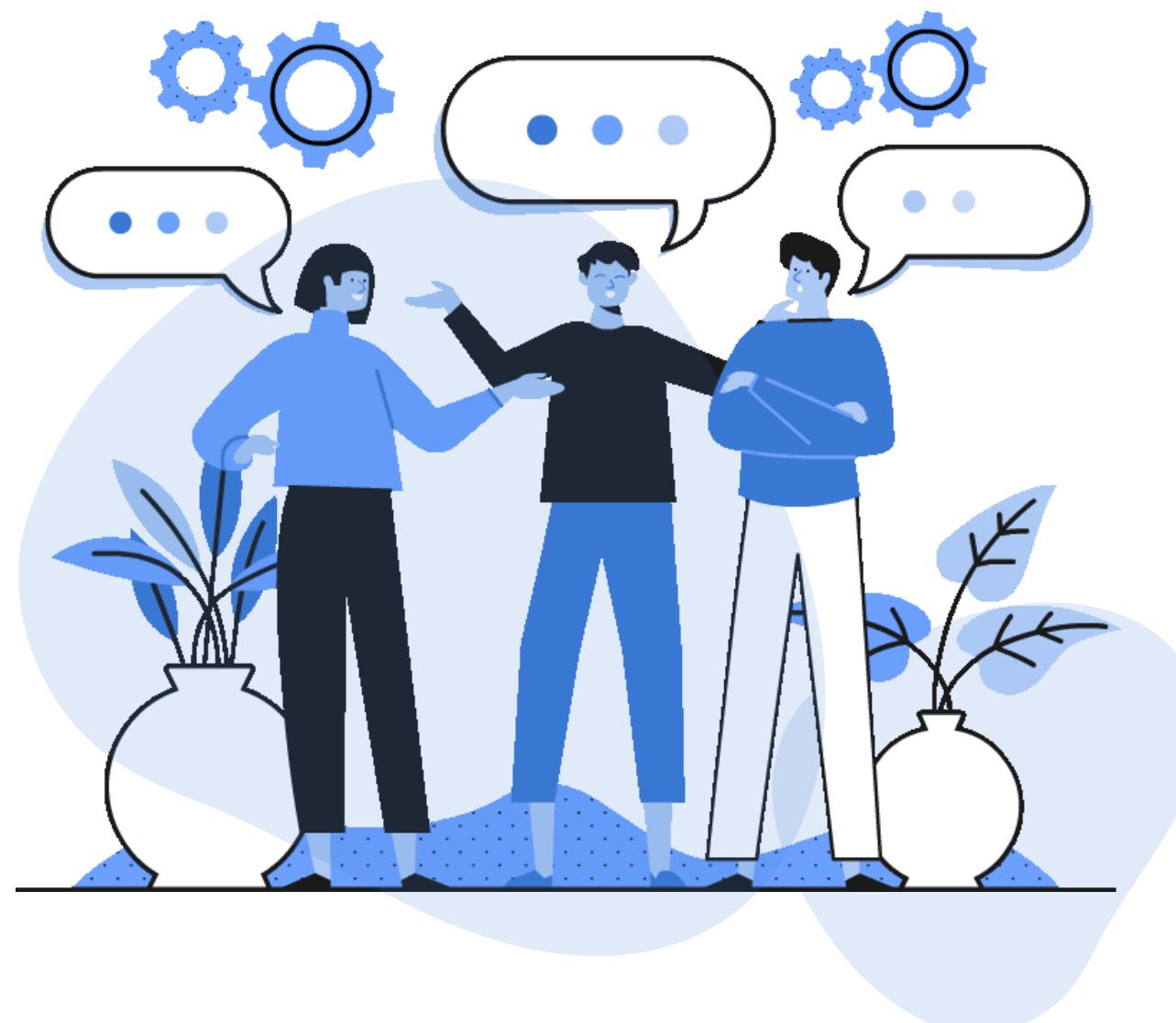


Today's Agenda

- 1** Problem Statement and Solution
- 2** Goals Achieved and Future Goals
- 3** Review of Related Applications
- 4** Scope and Overview of the System
- 5** Work Breakdown with Timeline

LET'S BEGIN!

Problem Statement

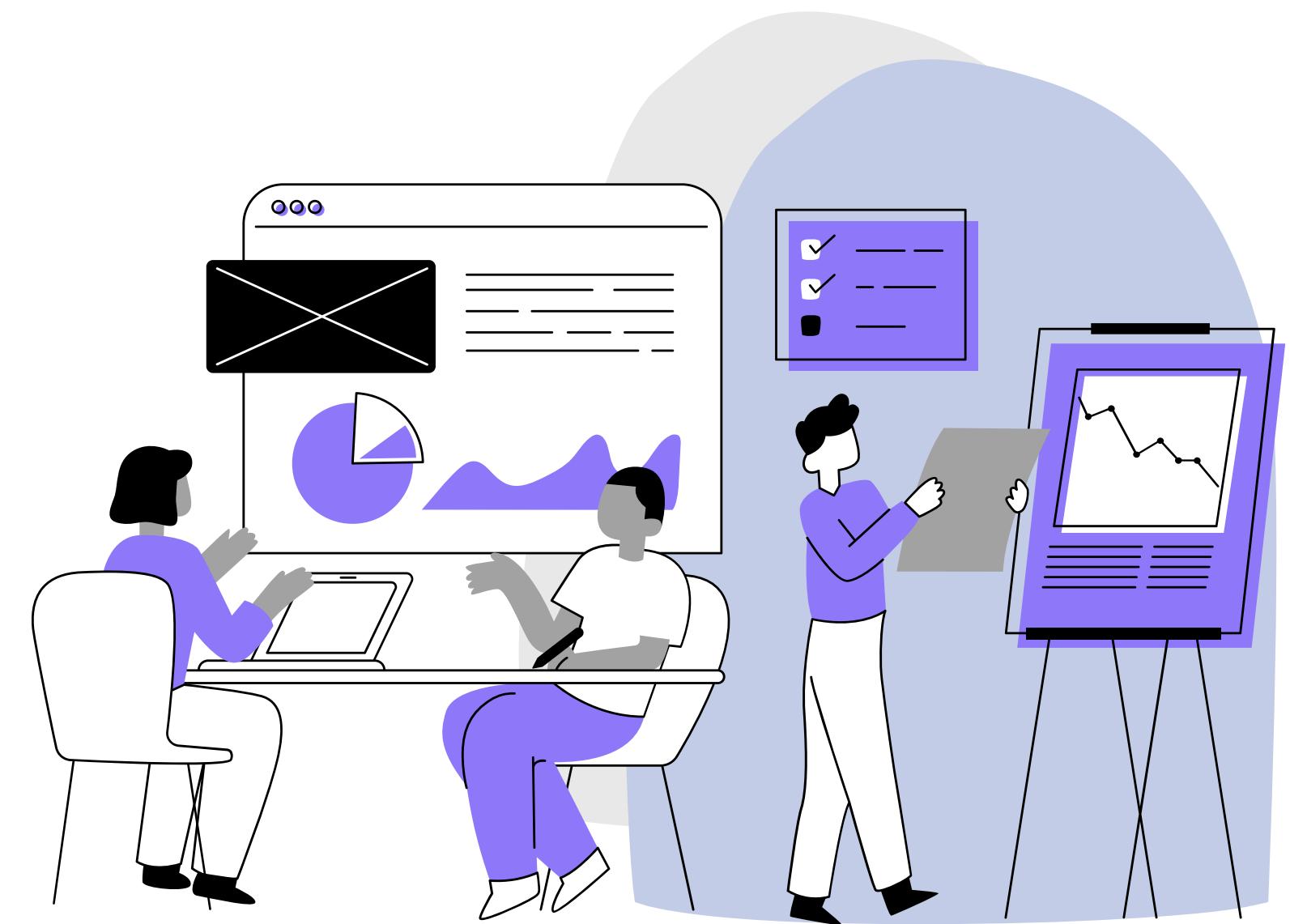


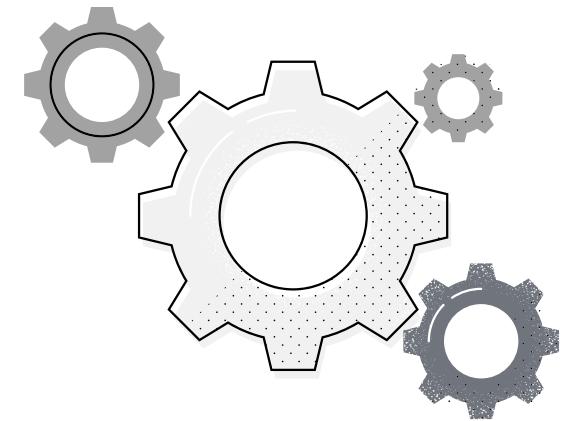
The usual notarization process is slow and often requires going to a notary office in person, lots of paperwork, and manual checks. For people in remote areas, it can be hard to get notarized documents. It also involves a lot of paper.

Problem Solution

What we offer:

- Remote Online Notarization (RON)
- User Identity Verification
- Document Security





Goals Achieved

What have we done so far?

- 1 Research on the Related Work
- 2 Identification of Use Cases
- 3 User Interface
- 4 Database Schema Design

Related Work



1 Notarize



2 DocuSign Notary



3 NotaryCam



4 SIGNiX



5 Pavaso

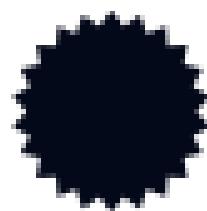


6 NotaryAct



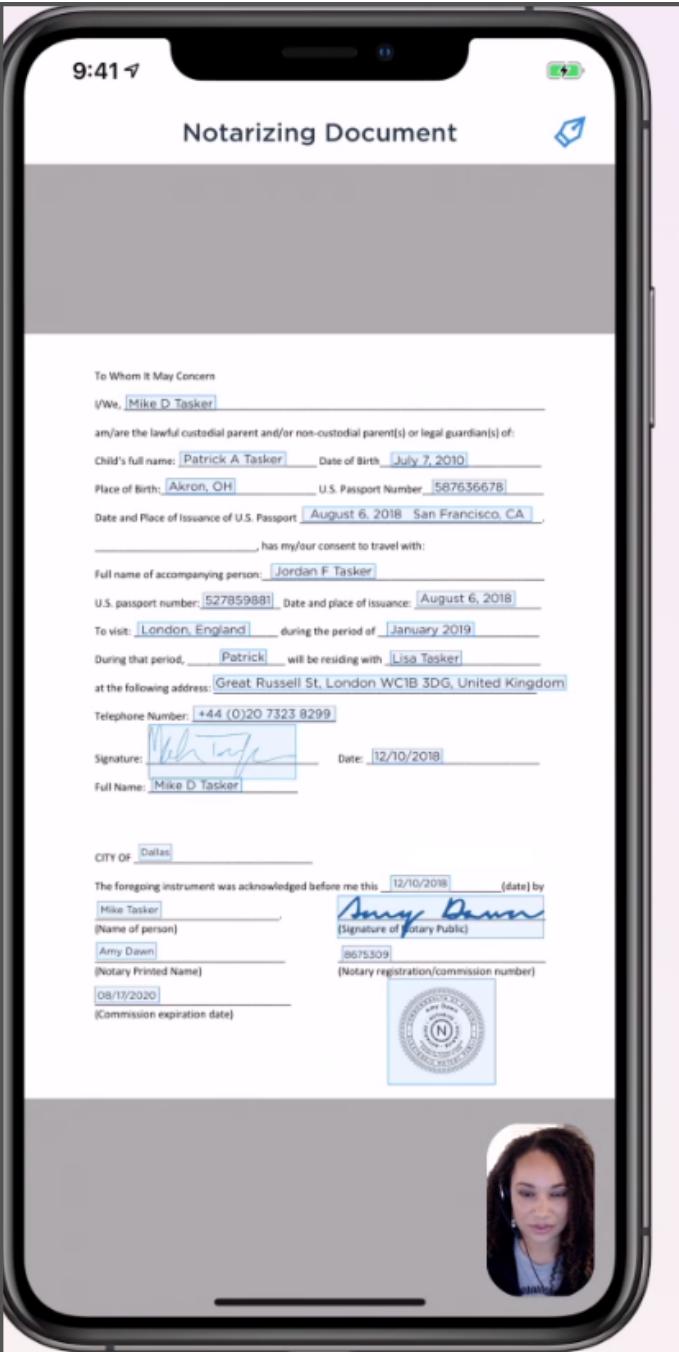
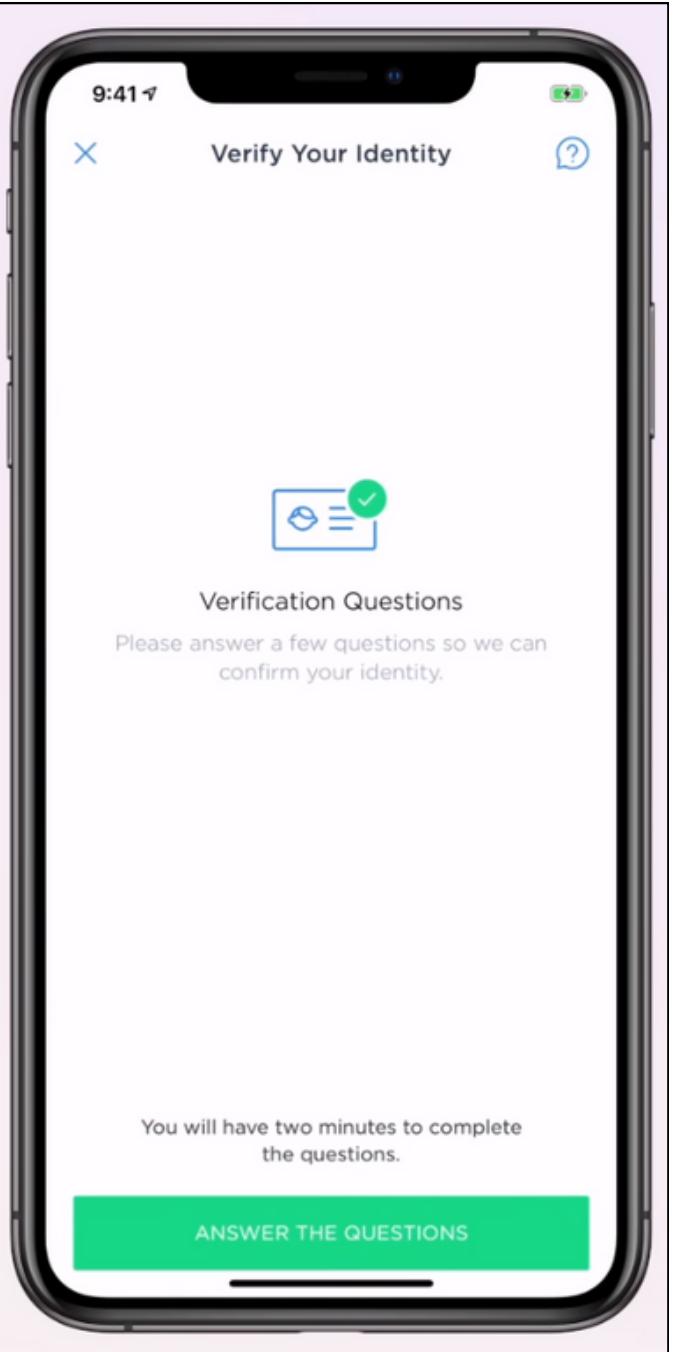
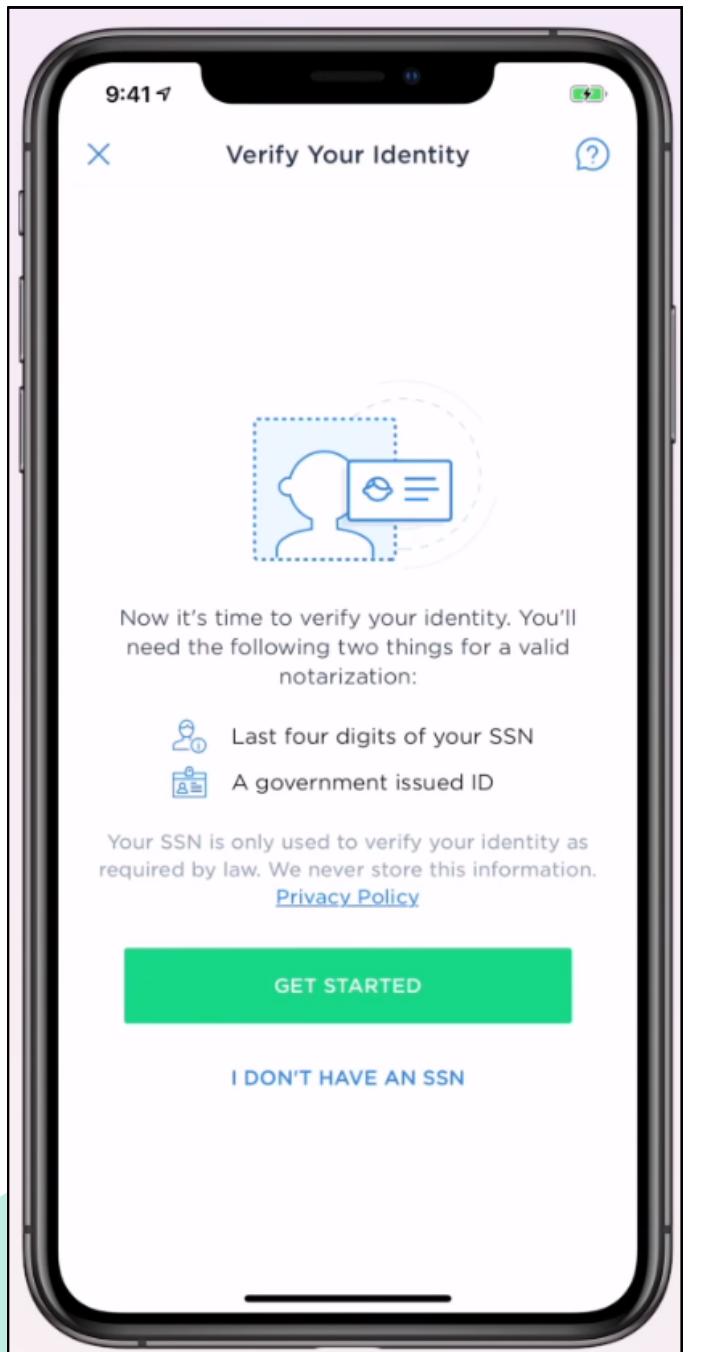
7 Adobe Acrobat Sign

[1]



NotarizeSM

with Proof



Notarizing Document

MINORCONSETTOSAVE-MT3053.PDF PAGE 1 OF 1

To Whom It May Concern
I/We, Mike D Tasker, am/are the lawful custodial parent and/or non-custodial parent(s) or legal guardian(s) of:
Child's full name: Patrick A Tasker Date of Birth: July 7, 2010
Place of Birth: Akron, OH U.S. Passport Number: 587636678
Date and Place of Issuance of U.S. Passport: August 6, 2018 San Francisco, CA
I, [Signature], has my/our consent to travel with:
Full name of accompanying person: Jordan F Tasker
U.S. passport number: 527859881 Date and place of issuance: August 6, 2018
To visit: London, England during the period of: January 2019
During that period, Patrick will be residing with Lisa Tasker
at the following address: Great Russell St, London WC1B 3DG, United Kingdom
Telephone Number: +44 (0)20 7323 8299
Signature: [Signature] Date: 12/10/2018
Full Name: Mike D Tasker

CITY OF Dallas
The foregoing instrument was acknowledged before me this 12/10/2018 (date) by
Mike Tasker
(Name of person)
Amy Dawn
(Notary Printed Name)
8675309
(Notary registration/commission number)
08/17/2020
(Commission expiration date)

Notary Seal: Amy Dawn, Notary Public, State of Texas, No. 8675309, Commission Expires 08/17/2020

Actions: Lock (green checkmark icon), Reject (red X icon)

DocuSign Notary

System Check

Before you join, we'll help you check your connection and system settings.



Camera: Cam Link 4K (0fd9:0066)

Audio: Default - iMac Pro Microphone (Built-in)

Network: Testing... 40%

The DocuSign User Terms of Use apply to your participation in a Remote Online Notarization session. By clicking "Continue" below, you consent to the [Terms of Use](#). The DocuSign Privacy Policy can be found [here](#).

Date Signed 9/27/2021

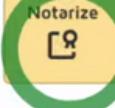
Subscribed and sworn to before me this 9/27/2021

Notary Public Blake Hayes

My commission expires 7/14/2025

DocuSigned by:
Blake Hayes
Notary Public, State of Washington
Required - Notary Seal

NOTARIAL SEAL

Notarize 

Date Signed 9/27/2021

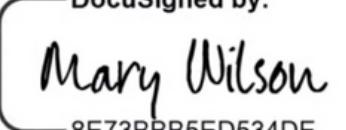
Subscribed and sworn to before me this 9/27/2021

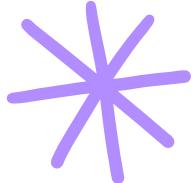
Notary Public Blake Hayes

My commission expires 7/14/2025

DocuSigned by:
Blake Hayes
Notary Public, State of Washington
Required - Notary Seal

BLAKE HAYES
NOTARY PUBLIC
STATE OF WASHINGTON
Commission #123914823
My Comm. Expires 7/15/2025

Date 9/27/2021 8:06:47 PM UTC	Envelope Name Please DocuSign: Power of Attorney	Envelope ID 7de183e8-68a0-497e-8a8d-624ecf293e87
Notarization Status Notarized	Jurisdiction Washington	Document Description Power of Attorney
Notarization Type Remote	Notarial Act Acknowledgement	Fee \$5
Signer Name Mary Wilson	Signer Email mary.wilson@mail.com	Signer Signature DocuSigned by:  8E73BBB5ED534DE...
Signer Address 221 Main St, San Francisco, CA 94105	ID Type Drivers License	
Notes -	Video Recording External ID 0f561852-3c67-4d4b-a9a4-d4bb25e1f6a0	Video Recording Hash e9f886cd983d7cd80aa8f401c18076b58ecc7be43d064f58a4d33bf6fe59d03e2d2144c69578ac3ab0a7cbce38907a431956cffde22871e383d56b4526e9e49c
		Journal Session ID 9b453215-f512-4b71-b8c8-524931e3e746





[3]

NotaryCam®

Closing Demo Doc 1.pdf

Page 1

CLOSING AND FUNDING INSTRUCTIONS FROM GUARANTEED RATE, INC.

Guaranteed Rate Loan Number 161495523
Primary Borrower Last Name SAMPLE
Primary Borrower First Name TEST
Property Street Address 555 TEST
City CHICAGO
State, Zip ILLINOIS, 60656

Loan Amount \$300,000.00 Document Date APRIL 11, 2016
Loan Type CONVENTIONAL Closing Date APRIL 11, 2016
Product 150-Month Fixed Rate Mortgag APRIL 15, 2016

Guaranteed Rate Closers
Phone Number
Fax Number
Email Address

EXECUTION OF DOCUMENTS

Each Borrower must sign all documents exactly as his or her name appears on the blank line provided for his or her signature. You must witness all signatures. All signature acknowledgments must be executed by a person authorized to take acknowledgments in the state of closing. For the purposes of this instruction, "you" means the settlement agent, attorney, escrow agent, or notary public who is physically present at the time of closing and has the authority to witness/signatures. You must warrant all work conducted by any individual providing services on your behalf and hereby agree to indemnify, defend and hold Guaranteed Rate harmless against wrongdoing committed by such individual.

Any correction to loan documents must be approved in writing by us in advance. No white-out permitted. Approved decisions should be made by marking a single line through the language being deleted. All additions and deletions must be initialed by all Borrowers.

Chat

type here to chat

Karina La Rosa Active
Ashley Lyle
Dimitri Alder Active
katie ackerman
Matthew Bateman

Close virtually from anywhere in the world with NotaryCam.

Closing Demo Doc 1.pdf

Page 1

Do you consent to e-signing ?

Please check the checkbox
I agree to the [eSign Consent and Terms of Services](#)

eSign Consent?

If you don't agree you will be taken back to the dashboard.

No Yes

Chat

type here to chat

Karina La Rosa Active
Ashley Lyle
Dimitri Alder Active
katie ackerman
Matthew Bateman

Consent to signing documents.

Select Signature to Use

Text Draw Upload

Signature: Ashley Lyle Initials: AL

Example: Example:

Cancel Save & Use Signature

Chat

type here to chat

Karina La Rosa Active
Ashley Lyle
Dimitri Alder Active
katie ackerman
Matthew Bateman

Sign documents using electronic signature.

Space Below This Line For Acknowledgment

The foregoing instrument was acknowledged before me this October 7th, 2021 by Ashley Lyle and Dimitri Alder.

Karina La Rosa
Notary Public, State of Florida
Commission # GG317196
My Commission Expires April 9, 2023

Karina La Rosa
Signature of Person Taking Acknowledgment

Notary Public Title

4/9/2023 Serial Number, if any

(Seal)

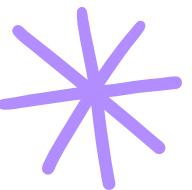
Completed via Remote Online Notarization using 2 way Audio/Video technology.

Chat

type here to chat

Karina La Rosa Active
Ashley Lyle Tags Completed: 13 / 13
Dimitri Alder Active
katie ackerman
Matthew Bateman
Katherine Conti

All parties take an oath of completion.



Cybersecurity Measures

Notarize

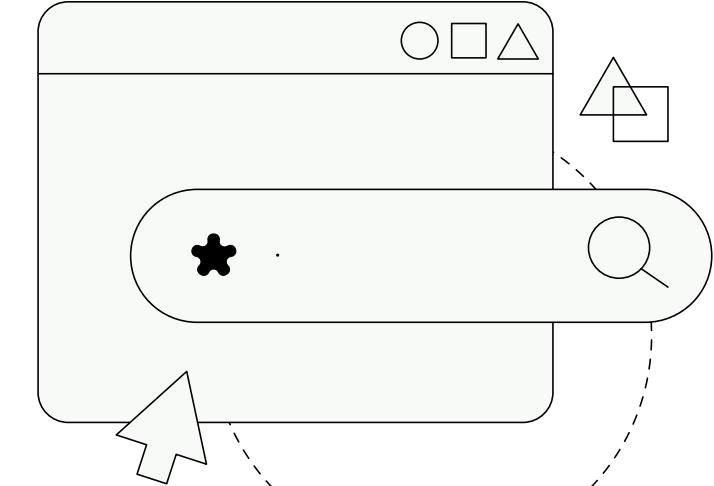
- X.509 digital certificate
- Proof- transaction management platform
- Third-party audits

DocuSign

- Encrypted customer data
- FIPS-approved methods
- OWASP Practices

NotaryCam

- Encrypted using SSL
- AES-256-bit encryption
- Amazon Virtual Public Cloud



Project Scope

- 1 SERN Based Web Application
- 2 Dedicated Portals for Notaries and Clients
- 3 Real-time Video Interactions and Identity Verification
- 4 Tamper-Proof Storage and Document Authenticity



System Overview



Dashboard

Open the Dashboard with multiple features for both notary and clients

Appointment

Create and book appointments for clients and accept the appointments for notary

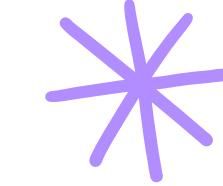
Notarization

Empowering Digital and Remote Notarization Services

Document Security

Notarized document Saved securely in the database

User Interface



1 Home Page



2 Client and Notary Dashboard



3 Notary's Availability Form and Document Upload by Client



4 Create and Book Appointment



5 Notary's Unconfirmed and Client's Unpaid Appointments

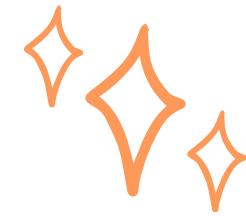


6 Notary and Client's Upcoming Appointments



7 Preview and Video Meeting

Home Page



NotaryNow

Home

**Notarize Online.
Anywhere.
Anytime.**

"Skip the trip to find a notary. Notarize your document online with ease – upload, verify, and connect with a notary in minutes."

Get Document Notarized

Continue as Notary



Notary and Client Dashboard



NotaryNow

Notary Dashboard

Sign out

Profile

Availability Form

Unconfirmed Appointments

Upcoming Appointments

View Notarized Documents

Start Notarization Session

View Stamp & Seal

Profile

Edit



Personal Information

Name: Ibtasam	Notification No: 3625-7856548
Email: Ibtasam@gmail.com	Seal Issue: Ibtasam123
Designation:	Expiry Date: 12-12-2024
CNIC: 35202-8798756-3	View License Update License
Contact: 0333-9294031	
User Name: Ibtasam123	



NotaryNow

Client Dashboard

Sign out

Profile

Upload Document

Create Appointment

Unpaid Appointments

Upcoming Appointments

Notarized Documents

Profile

Edit



Personal Information

Name: Ibtasam	Contact: 0333-9294031
Email: Ibtasam@gmail.com	User Name: Ibtasam123
CNIC: 35202-8798756-3	



Notary's Availability Form and Document Upload by Client

NotaryNow

Notary Dashboard

[Sign out](#)

Availability Form | Please Specify your availability

Day	Working Hours
Monday	09 : 00 AM to 05 : 00 PM Edit
Tuesday	09 : 00 AM to 05 : 00 PM Edit
Wednesday	09 : 00 AM to 05 : 00 PM Edit
Thursday	09 : 00 AM to 05 : 00 PM Edit
Friday	09 : 00 AM to 05 : 00 PM Edit
Saturday	09 : 00 AM to 05 : 00 PM Edit

[Save & Submit](#)

[Profile](#)

[Availability Form](#)

[Unconfirmed Appointments](#)

[Upcoming Appointments](#)

[View Notarized Documents](#)

[Start Notarization Session](#)

[View Stamp & Seal](#)

NotaryNow

Client Dashboard

[Sign out](#)

Upload Document |

[Upload File](#)

Document Name

Rental_Lease.pdf	A.Nawaz Osmani Law Associates
Land_Lord_CNIC.pdf	24 Justice Pk
Power_of_Attorney.pdf	Hamdard Law Associates
Result_Card.pdf	Ahmad Law Services
Domicile.pdf	A.Nawaz Osmani Law Associates
+ _____	Hamdard Law Associates

Linked Appointment

[Profile](#)

[Upload Document](#)

[Create Appointment](#)

[Unpaid Appointments](#)

[Upcoming Appointments](#)

[Notarized Documents](#)



Create and Book an Appointment

NotaryNow

Client Dashboard

[Sign out](#)

Availability ▾ Rates ▾ Location ▾

Notary Officers

A.Nawaz Osmani Law Associates
2-Model Town, Lahore.
50+ notarized Documents

Rs: 250

Iqbal International Law Services.
20 Lower Mall, Lahore.
250+ notarized Documents

Rs: 250

24 Justice Pakistan.
20 Iqbal Town, Lahore.
100+ notarized Documents

Rs: 250

Profile

Upload Document

Create Appointment

Unpaid Appointments

Upcoming Appointmnets

Notarized Documents

NotaryNow

Client Dashboard

[Sign out](#)

Create Appointment | A.Nawaz Osmani Law Associates.

A.Nawaz Osmani Law Associates.
20-Lower Mall, Lahore.
50+ notarized Documents

Rs: 250

Select Date

Today 06 Oct Sat 06 Oct Sun 06 Oct Mon 06 Oct Tue 06 Oct Wed 06 Oct

Select Time

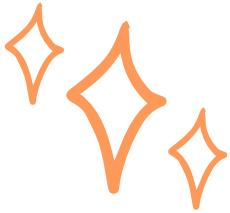
09 : 00 AM 9 : 30 AM 10 : 00 AM 10 : 30 AM 11 : 00 AM

06 : 00 PM 07 : 00 PM

Book Appointment



Notary's Unconfirmed and Client's Unpaid Appointments



NotaryNow

Notary Dashboard

Sign out

Unconfirmed Appointments

Profile Picture	Name	Date	Action
	Sir Ammar Haider	06 Oct 09 : 00 AM	<input type="checkbox"/> Mark Confirmed
	Javaria Naveed	06 Oct 09 : 30 AM	<input type="checkbox"/> Mark Confirmed
	Muhammad Ibtasam	07 Oct 10 : 00 AM	<input checked="" type="checkbox"/> Mark Confirmed
	Muhammad Usaid	07 Oct 10 : 30 AM	<input type="checkbox"/> Mark Confirmed

Profile

Availability Form

Upcoming Appointments

View Notarized Documents

Start Notarization Session

View Stamp & Seal

NotaryNow

Client Dashboard

Sign out

Unpaid Appointments

Profile Picture	Name	Date
	A.Nawaz Osmani Law Associates.	06 Oct 09 : 00 AM
	Iqbal International Law Services.	06 Oct 09 : 30 AM
	24 Justice Pakistan.	07 Oct 10 : 00 AM
	Ahmad Qaiser Law Associates.	07 Oct 10 : 30 AM

Profile

Upload Document

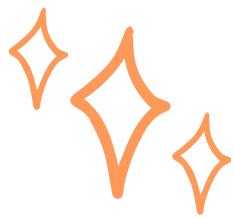
Create Appointment

Unpaid Appointments

Upcoming Appointments

Notarized Documents

Notary and Client's Upcoming Appointments



NotaryNow

Notary Dashboard

[Sign out](#)

[Profile](#)

[Availability Form](#)

[Unconfirmed Appointments](#)

[Upcoming Appointments](#)

[View Notarized Documents](#)

[Start Notarization Session](#)

[View Stamp & Seal](#)

Upcoming Appointments

	Sir Ammar Haider	06 Oct	09 : 00 AM
	Javaria Naveed	06 Oct	09 : 30 AM
	Muhammad Ibtasam	07 Oct	10 : 00 AM
	Muhammad Usaid	07 Oct	10 : 30 AM

NotaryNow

Client Dashboard

[Sign out](#)

[Profile](#)

[Upload Document](#)

[Create Appointment](#)

[Unpaid Appointments](#)

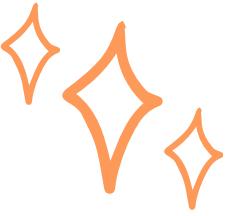
[Upcoming Appointments](#)

[Notarized Documents](#)

Upcoming Appointments

	A.Nawaz Osmani Law Associates.	06 Oct	09 : 00 AM
	Iqbal International Law Services.	06 Oct	09 : 30 AM
	24 Justice Pakistan.	07 Oct	10 : 00 AM
	Ahmad Qaiser Law Associates.	07 Oct	10 : 30 AM

Preview and Video Meeting



NotaryNow

Notary Dashboard

Sign out

Profile

Availability Form

Unconfirmed Appointments

Upcoming Appointments

View Notarized Documents

Start Notarization Session

View Stamp & Seal

Start Notarization Session | **Preview**

Muhammad Ibtasam 07 Oct 10 : 00 AM
 Power_of_Attorney.pdf

Preview Uploaded Documents

Start Video Call

NotaryNow

Notarization Session

Power_of_Attorney.pdf Page 1 of 1 **Terminate** **Complete**

INSTRUCTIONS AND SAMPLE
MAILED NOTARIZED ID

INSTRUCTIONS
Affidavit: "Xerox a photocopy of acceptable original identification document [See "Information Sheet for Sole Proprietor Applicants (Initial and Renewal) / Concerning Requirements of Establishing Legal Presence in the United States as a Condition of Health Facility License" for acceptable forms of original identification documents.]
2. Present the photocopy together with your original identification document and a copy of this sample sheet to a notary public for certification.

Notary Public:
Type or print the certification statement that appears in bold on the sample below on above your official notary certification seal.

MAILED NOTARIZED ID SAMPLE
PHOTOCOPY APPLICANT ID

Applicant Signature _____ Date _____

NOTARY
The undersigned notary whose seal is affixed hereto hereby certifies as follows: I was presented with and examined the original document, a photocopy of which appears on this page, and that said photocopy is a true copy of said original.

SUBSCRIBED AND SWORN to before me this _____ day of _____, 20____ by _____

WITNESS my hand and official seal.

NOTARY PUBLIC _____ My Commission expires: _____

What's not in our scope (currently)

yes!
✓ X



Using E-wallets and payment gateways

Notary Verification with Government Office

Future Goals



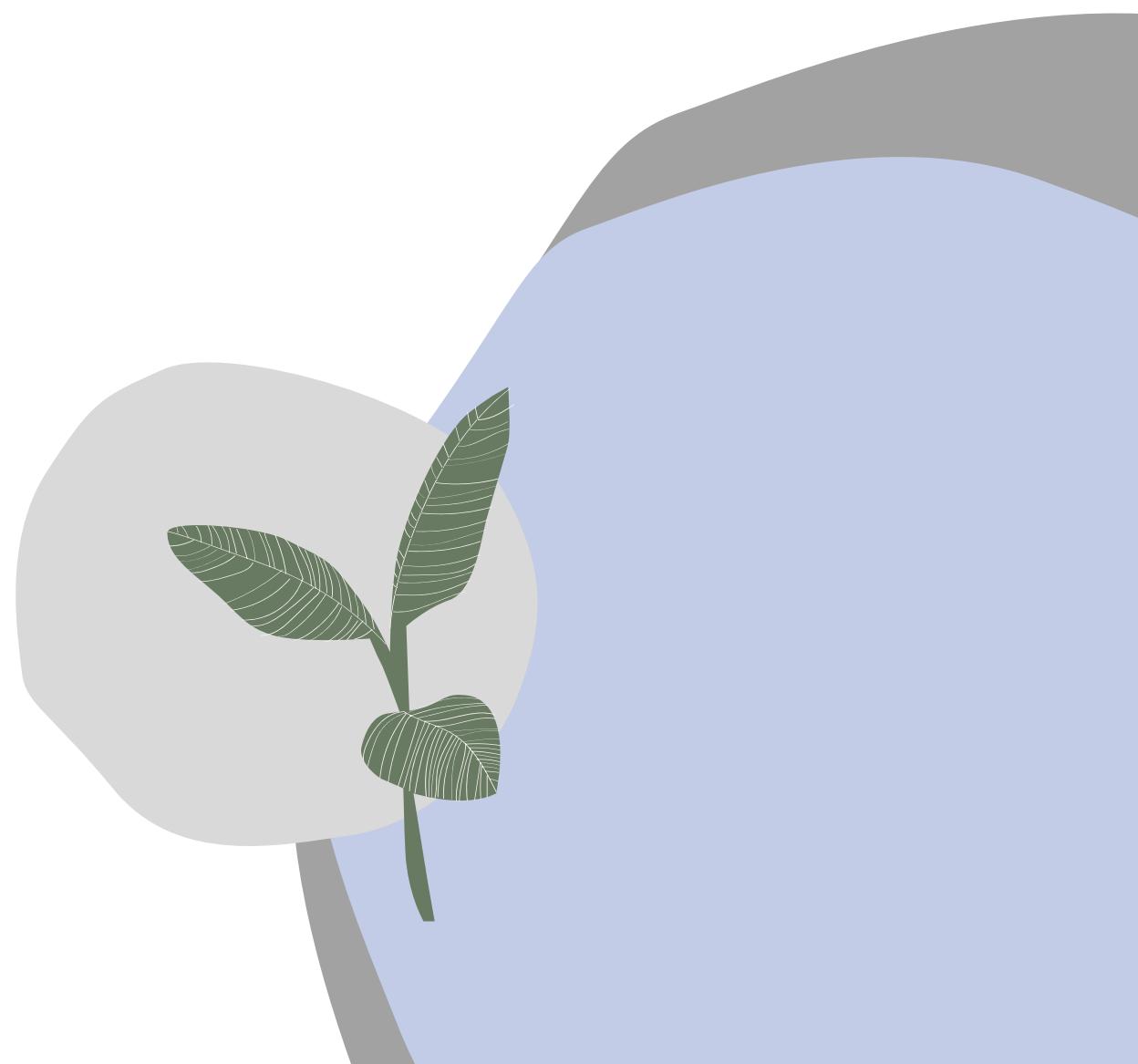
Integrating Payment Gateways



Notary Authentication and Verification
with the Government Offices



Automating Existing Workflows



Security Focus

- 1 User Verification using TOTP
- 2 ImmuDB for Secure and Tampered-Free Storage
- 3 Digital Signatures to prevent fraudulent activities



Verification Using TOTP

Time Sensitivity

TOTP's short validity window reduces the risk of interception by providing time-sensitive codes

Client-Side Generation

TOTP generates one-time passwords on the user's device, enhancing security by minimizing exposure to third parties.

Shared Secret and Verification

TOTP relies on shared secrets between the client and server, ensuring synchronized, secure, and time-sensitive authentication.

Why ImmuDB?

Immutability

Data stored in ImmuDB cannot be modified or deleted

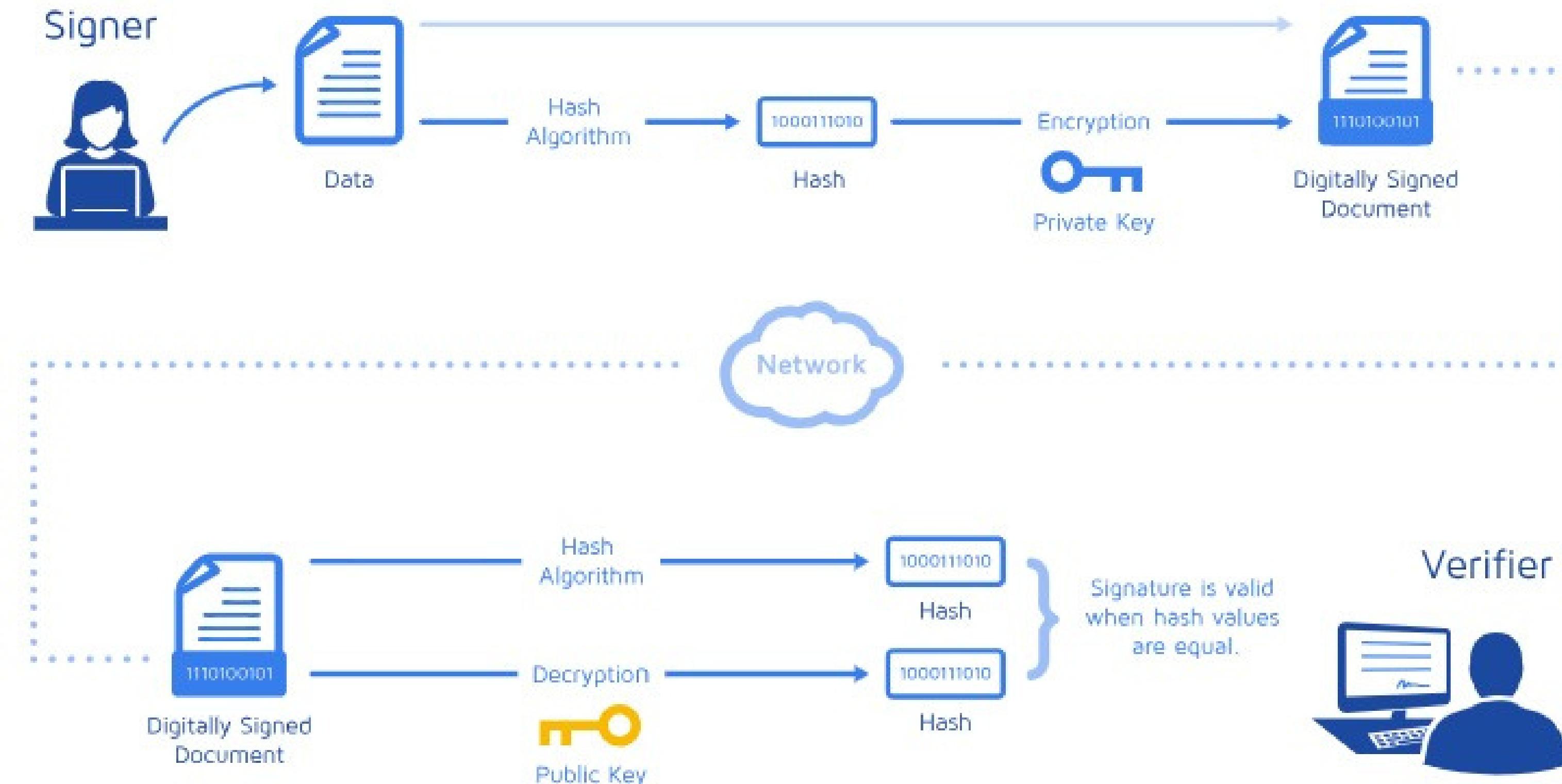
Versioning

Any changes to the data create a new version, preserving a clear audit trail

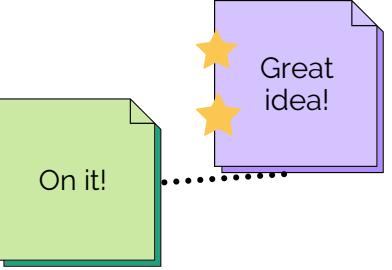
Tamper-Proof History

ImmuDB maintains a secure and tamper-proof history of data changes

Digital Signatures

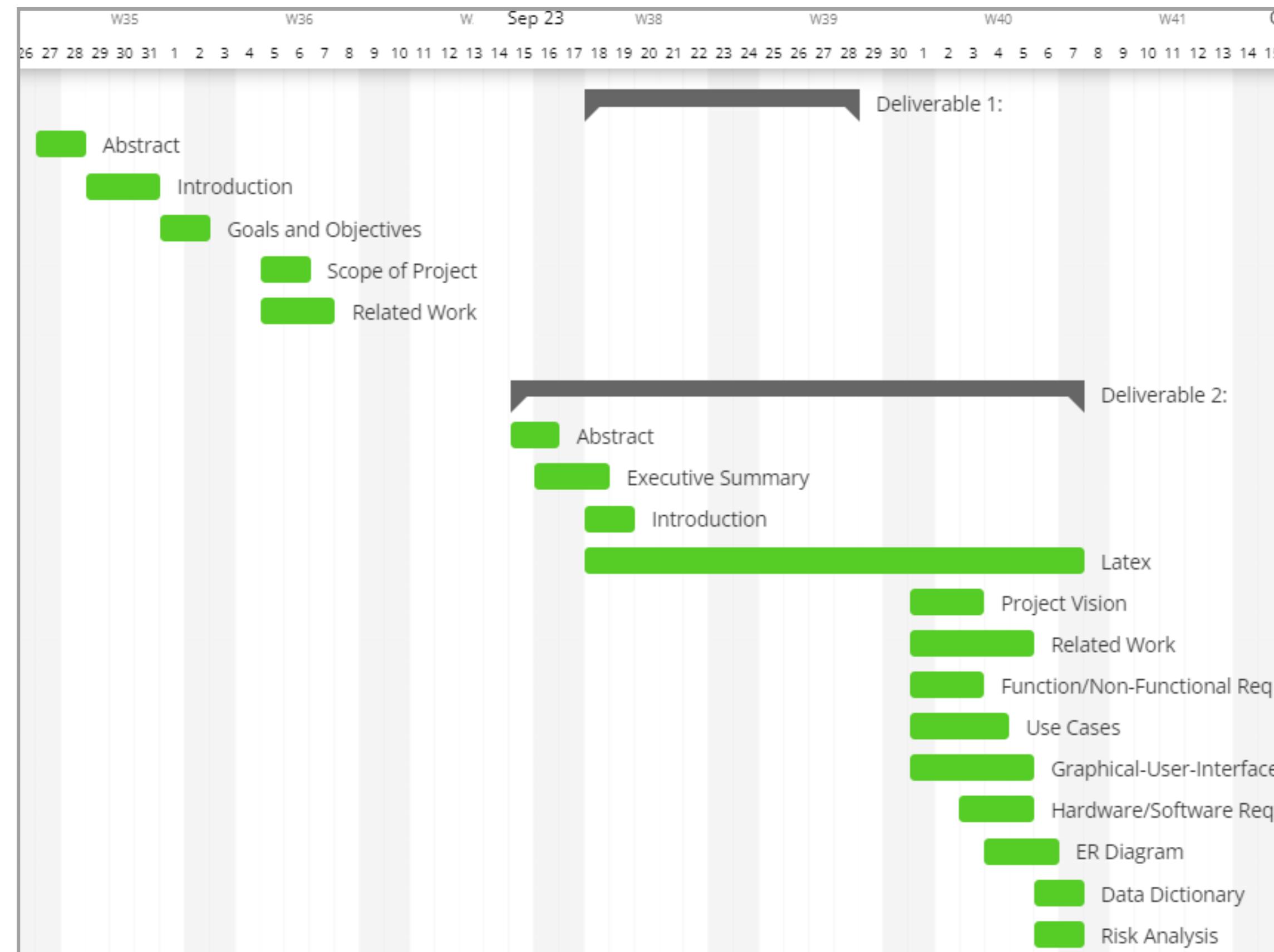
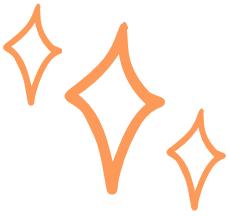


Work Breakdown

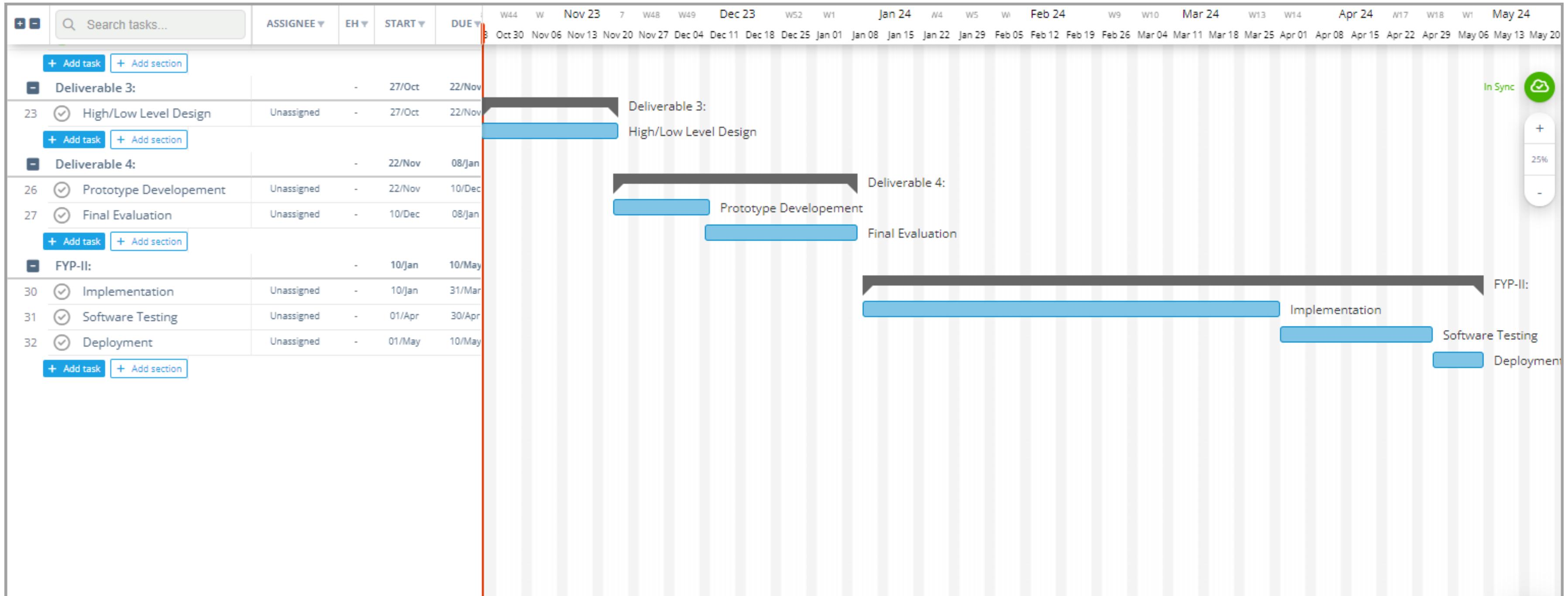
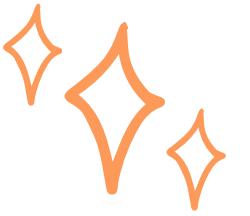


Student Name	Tasks	Status
Javaria	Deliverable 1: Abstract, Related Work Deliverable 2: Abstract, Executive Summary, Related Work, Use Cases, Functional/Non-Functional Requirements, Latex	
Ibtasam	Deliverable 1: Introduction, Project Scope Deliverable 2: Introduction, Functional/Non-Functional Requirements, Graphical-User-Interface, ER Diagram, Data Dictionary, Latex	
Usaid	Deliverable 1: Introduction, Goals and Objectives Deliverable 2: Introduction, Project Vision, Functional/Non-Functional Requirements, Hardware/Software Requirements, Data Dictionary, Risk Analysis, Latex	

TIMELINE

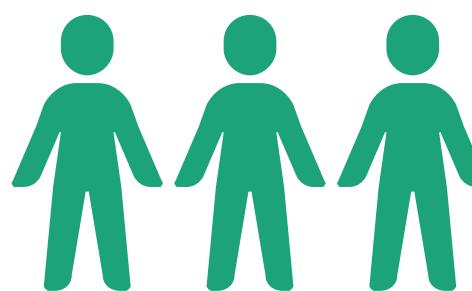


TIMELINE



Concluded with thanks!

Any Questions?



References

- [1] Notarize, "How Online Notarization Works Using Notarize," YouTube, Feb. 12, 2019. [Online]. Available: [Link](#). [Accessed: Oct. 26, 2023].
- [2] DocuSign, "DocuSign Notary," YouTube, 27-Apr-2022. [Online]. Available: [Link](#). [Accessed: October 25, 2023].
- [3] NotaryCam, "NotaryCam V4 Demo," YouTube, Jan. 18, 2022. [Online]. Available: <https://youtu.be/LBHN9EM-CfU?si=84GspxkZKJHG-ria>. [Accessed: Oct. 25, 2023]