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Phishing Simulation Platform

Presented by

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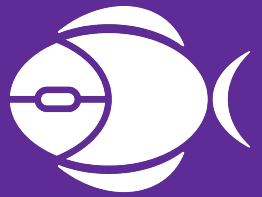
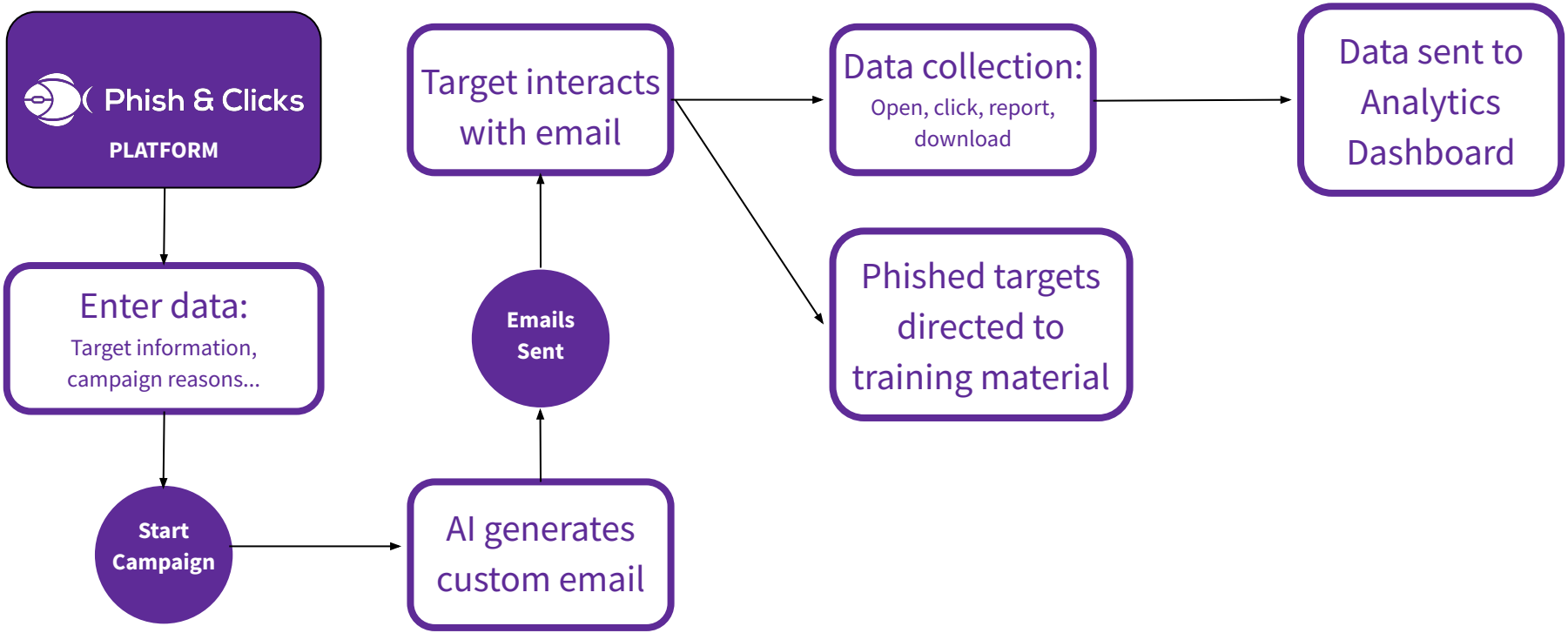


Phish & Clicks

Our Solution

PATRYCJA

User Flow



Challenges & Limitations

PATRYCJA

- GoPhish
- Attaching tracker events to emails
- “Open” tracking event blocked when running database locally
- Attachment download tracking limitations
- Render deployment and database limitations

Our Solution

Architecture

- Back-end (API and Postgres.db)
- Front-end (Streamlit-UI layer)
- Email Services

Tools

- Fast API
- Pydantic (Request/Response validation)
- SQLAlchemy(ORM)
- Google Gemini API
- Matplotlib
- Streamlit
- Render (Postgres & FastAPI hosting)

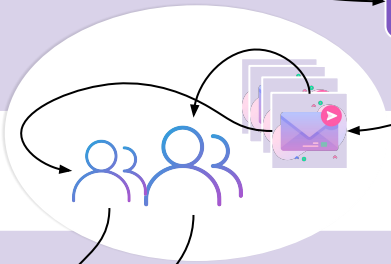
Email Services

generator.py

email.py

config.py

launch.py



Database

events

opened, clicked, reported, submitted, downloaded

campaigns

employees

FastAPI Server

api_client.py

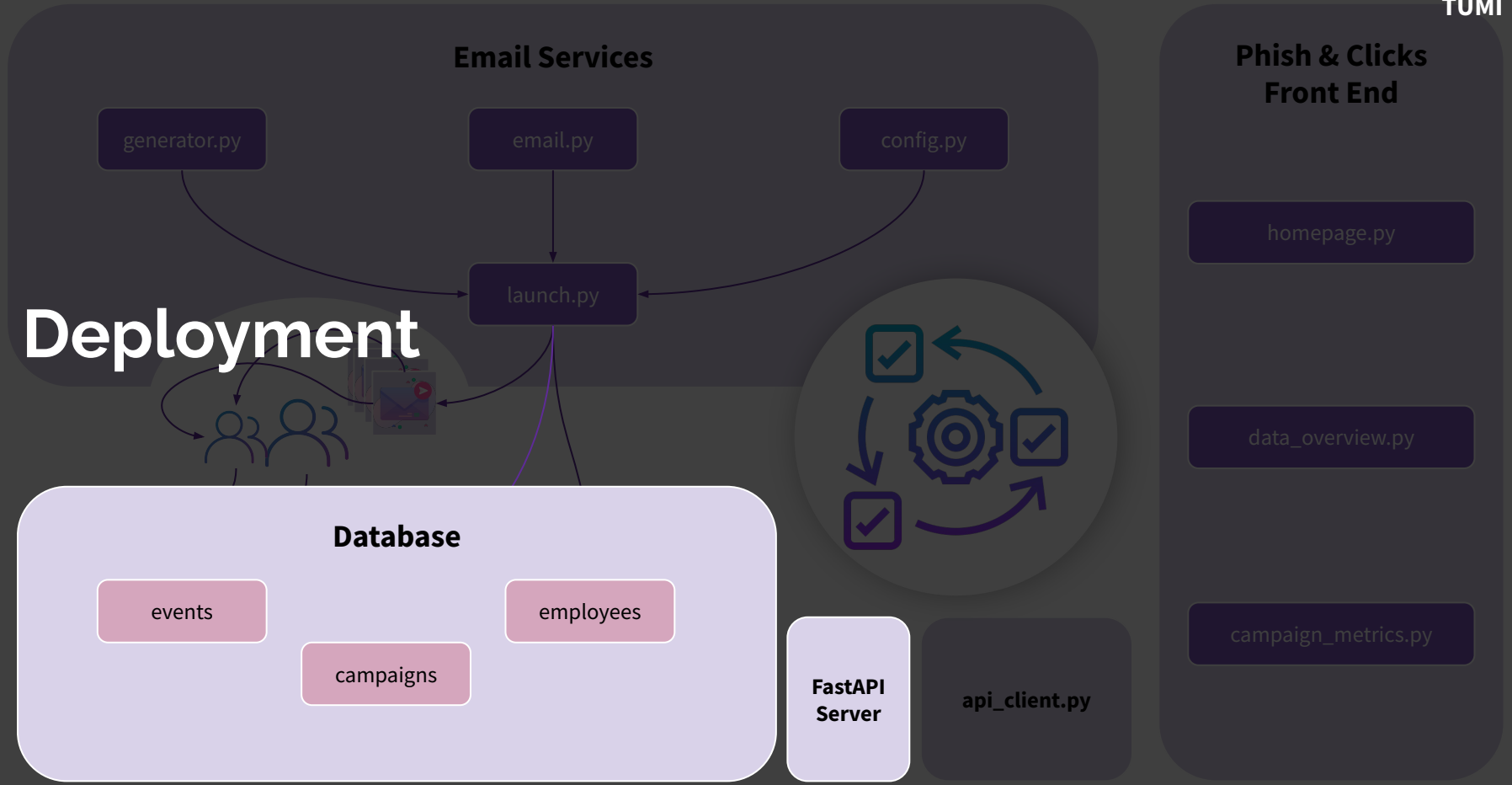
Phish & Clicks Front End

homepage.py

data_overview.py

campaign_metrics.py

Deployment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Personalization

NICOLE

- Names
- Business Unit
- Language
- Reasoning
- Links

Prompt Engineering

NICOLE

Compose a professional email in **{language}** from **{sender name}** to **{receiver name}** from the **{Team Name}** team. The email should address the following topic: **{reason}**.

The email should include the following elements:
1. A clear explanation of why **{reason}** is critical, with specific consequences if no action is taken.
2. A specific call to action requiring the recipient to click this link: “**{pretty link}**”
3. Include a deadline with a **{future date}** and **{random time}** in the near-future, excluding weekends.
4. Ensure the tone is professional and not overly alarming to avoid suspicion.

Remember to:
- Use realistic and natural-sounding language throughout, avoiding repetitive or template-like phrases.
- Keep the tone professional and approachable, like a helpful colleague.
- Make the email appear tailored specifically for the recipient **{name} {surname}**.
- Format the result as an HTML body text with only <p> tags to subdivide in paragraphs.
- Format the date and time between tags to highlight it.
- Only write the body of the email. Do not include headers or signatures.

NICOLE

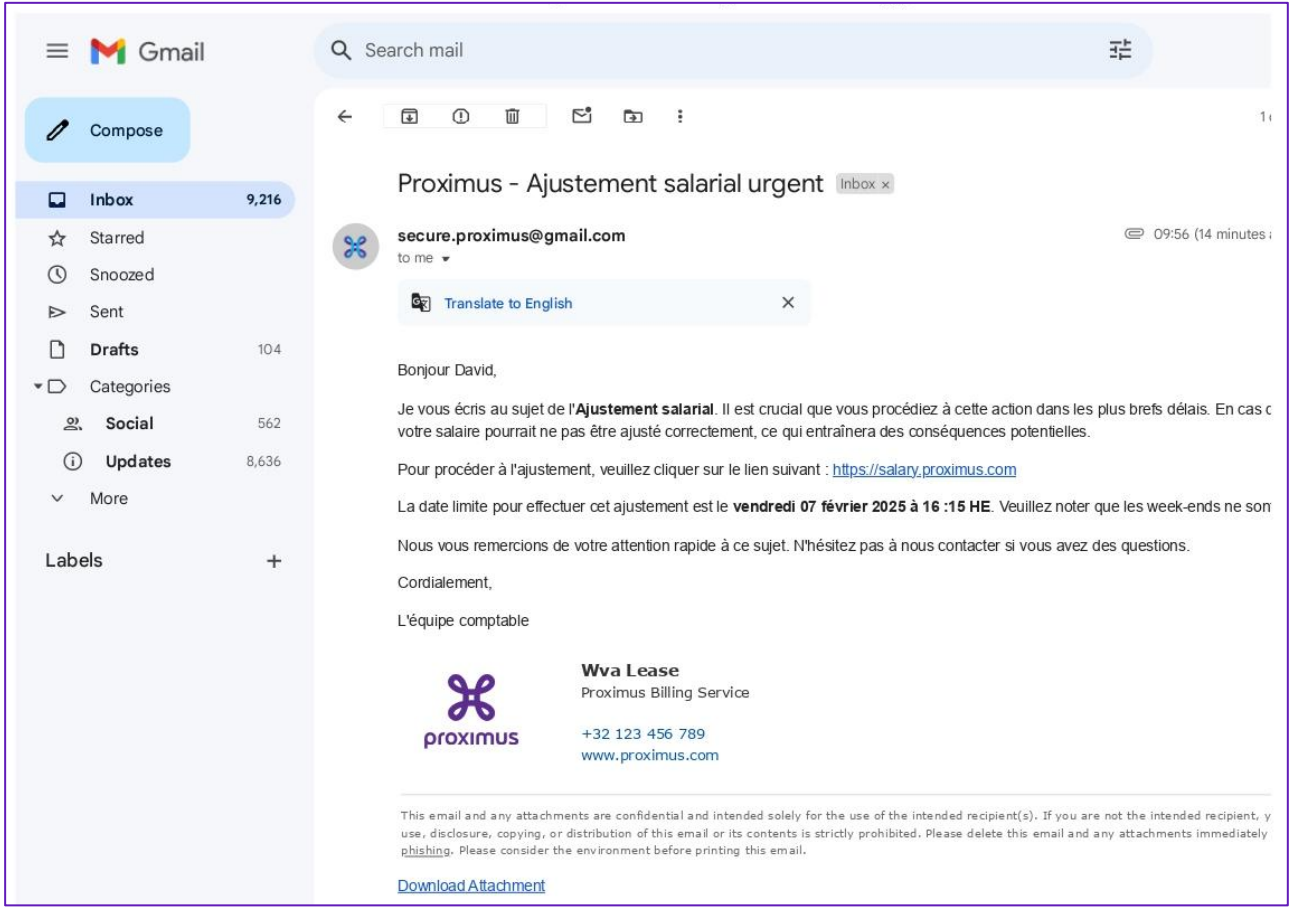
Result

Brand spoofing

No over the top styling

Employee to employee

In real-life context - would be modeled after internal emails.



Training

Materials:

11-page Guide

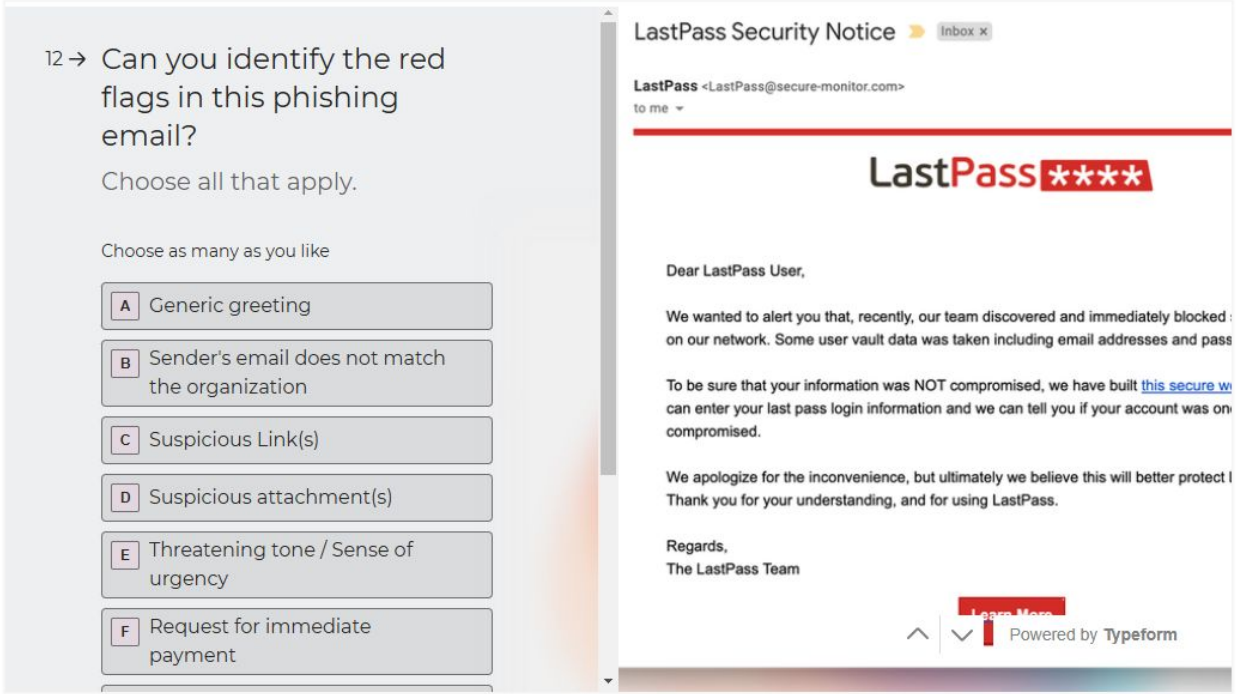
Email content

Quiz

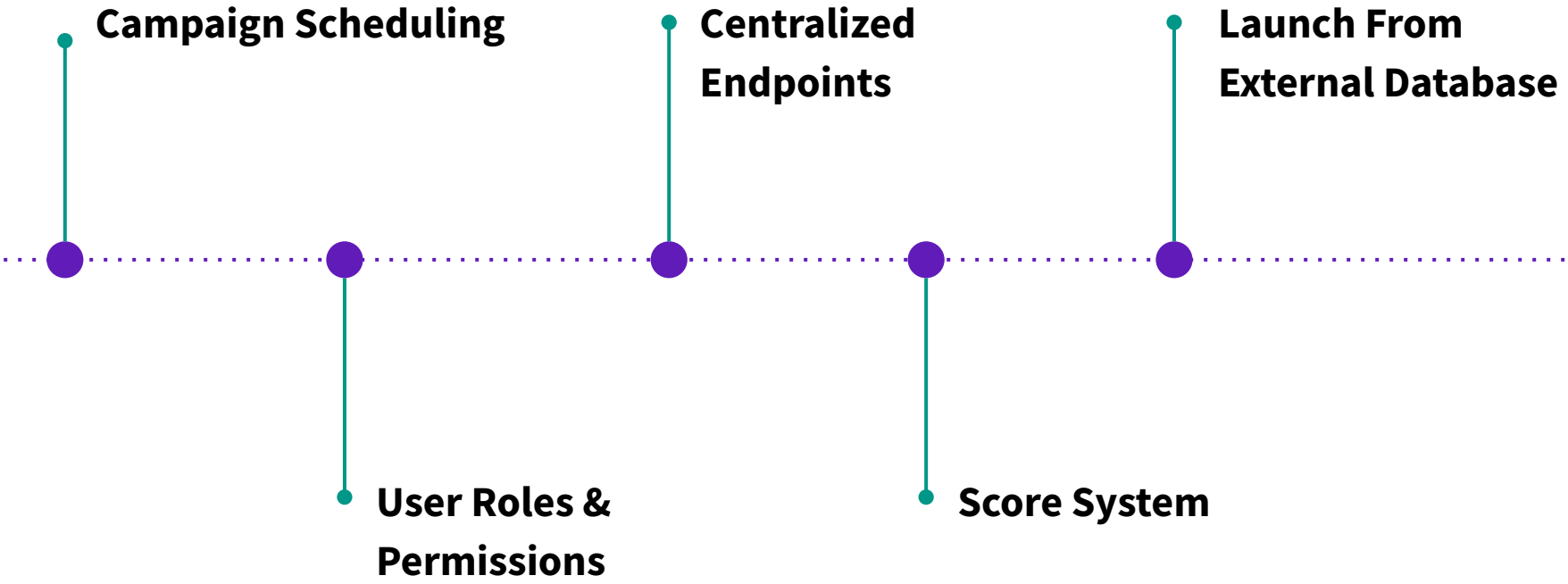
Follow-up:

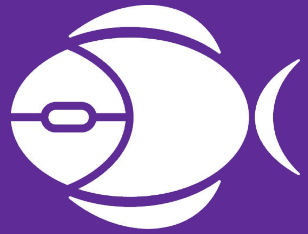
Immediate feedback

Scoring system (future)



Future Improvements





Phish & Clicks

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