

Loss and Damage Funds

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REST-API

Final Project, Web Service Class

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January 20, 2024

1 Motivation

2 Loss & Damage Funds

3 Development Process

4 Work Done

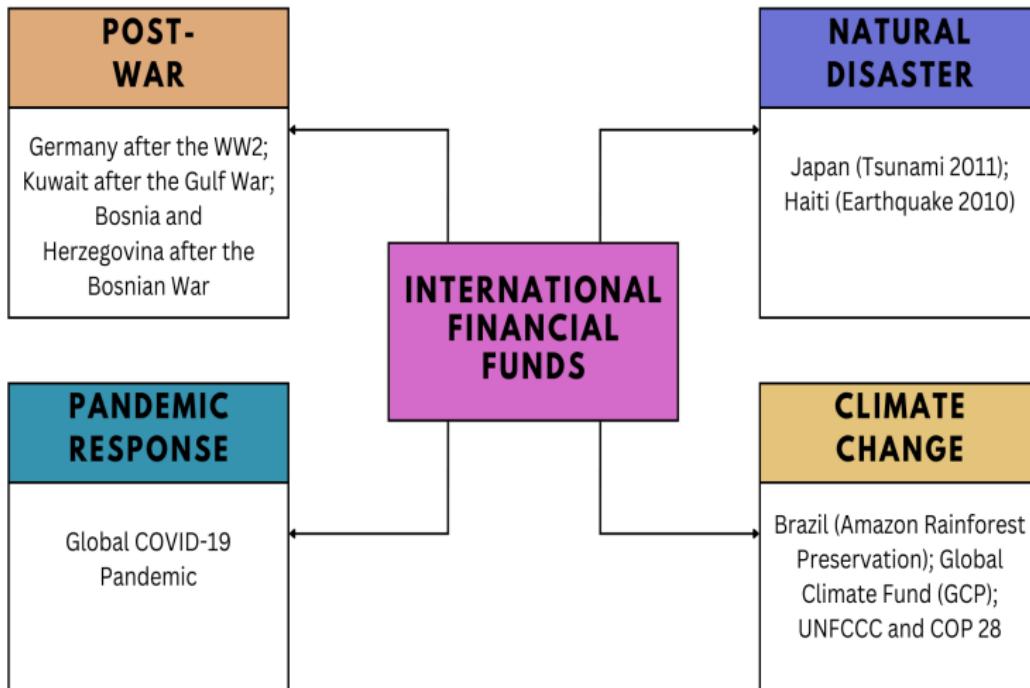
5 Work Plan

Motivation

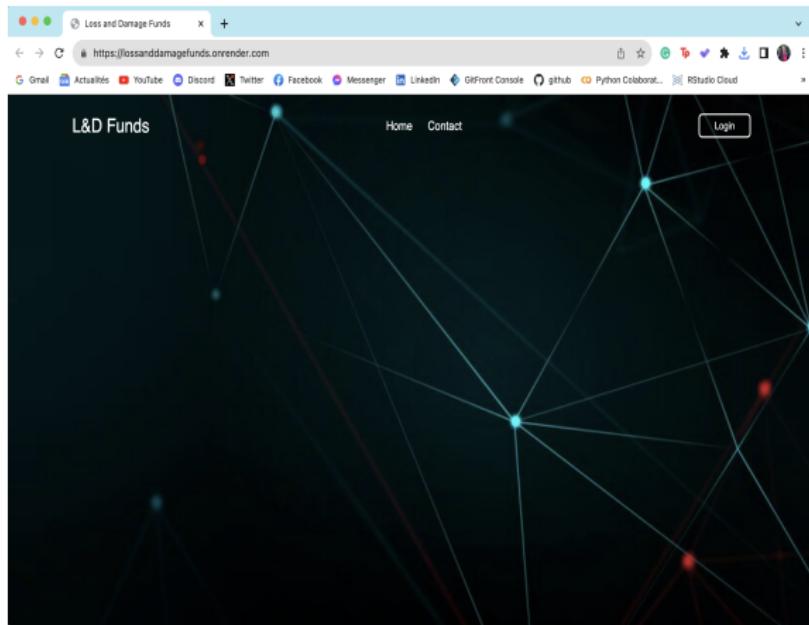


- ◀ How can a country rebuild itself after a destructive war?

Motivation

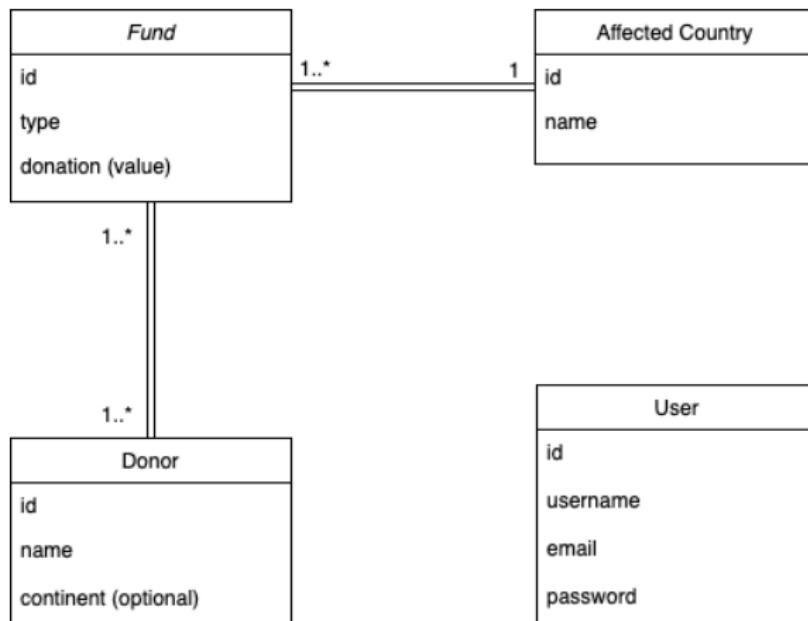


Loss & Damage Funds



- ▶ Web Service to manipulate international financial funds

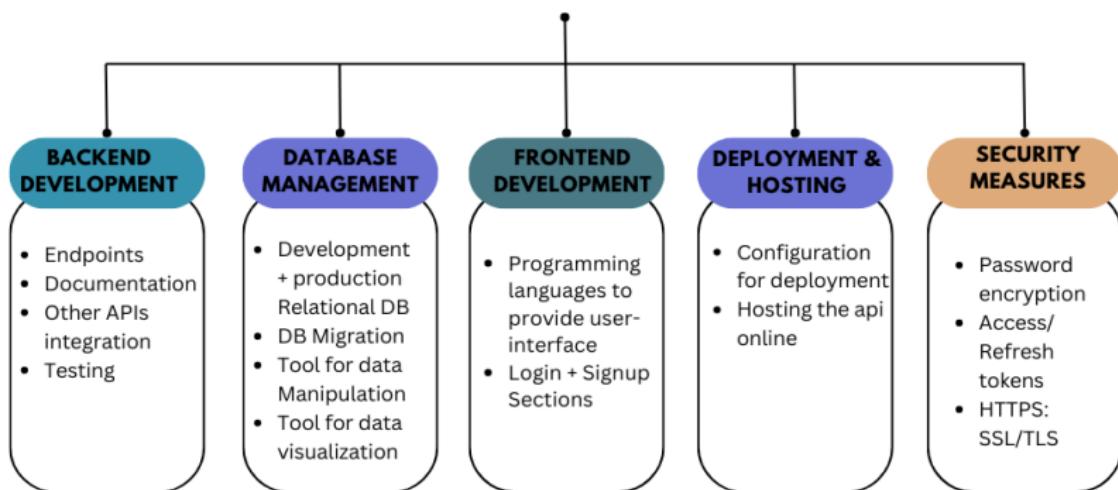
Loss & Damage Funds



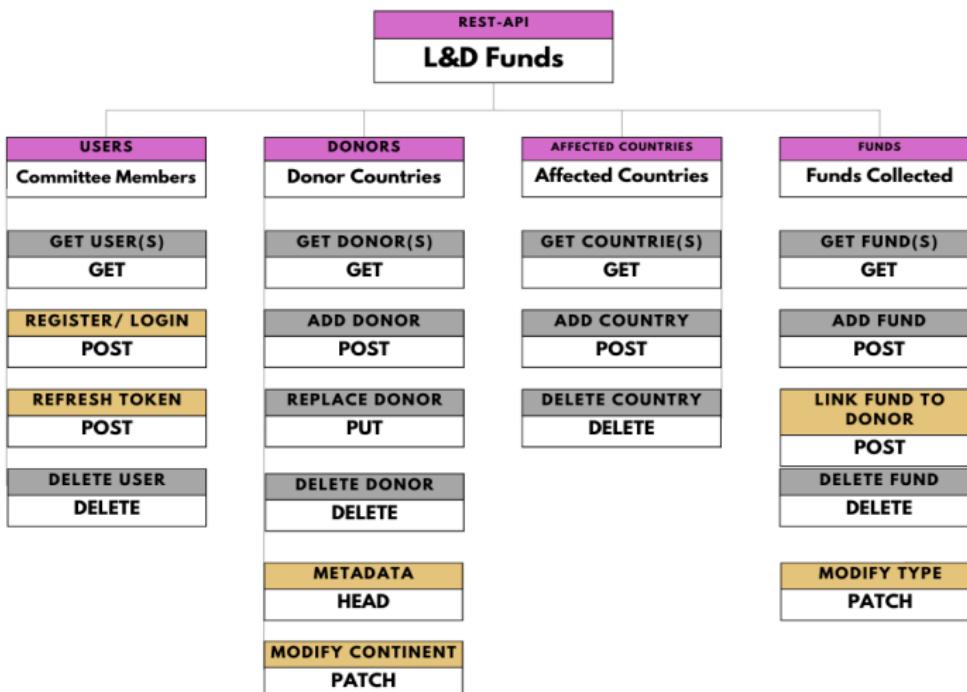
- ▶ Web Service that coordinates between 4 main databases.

Development Phases

5 Main Blocks



Backend Development



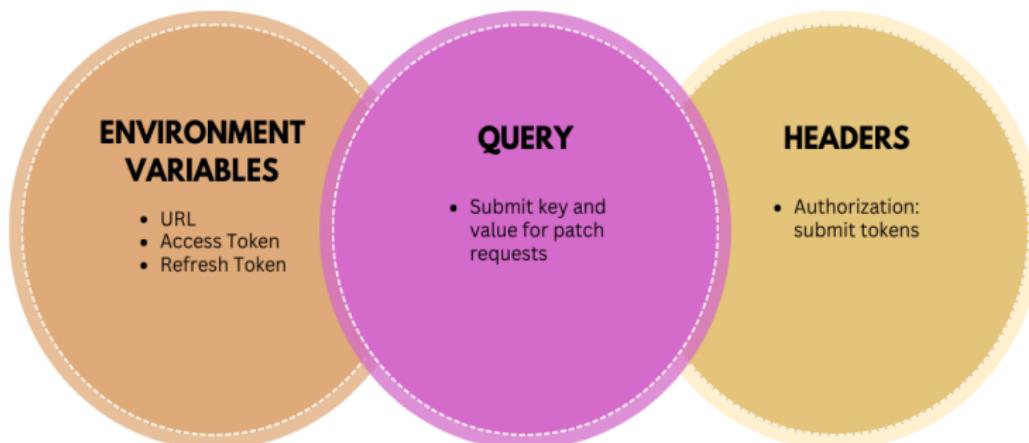
Backend Development

- ◀ Other APIs have been employed:



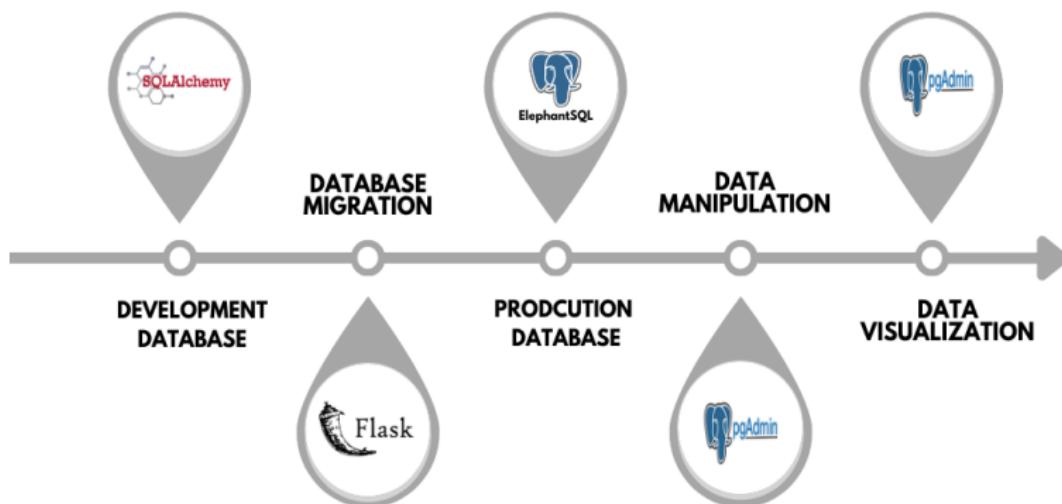
Backend Development

- ◀ Insomnia/ Postman for testing; Features employed:



Data Management & Visualization

- Different Python libraries and tools were implemented:

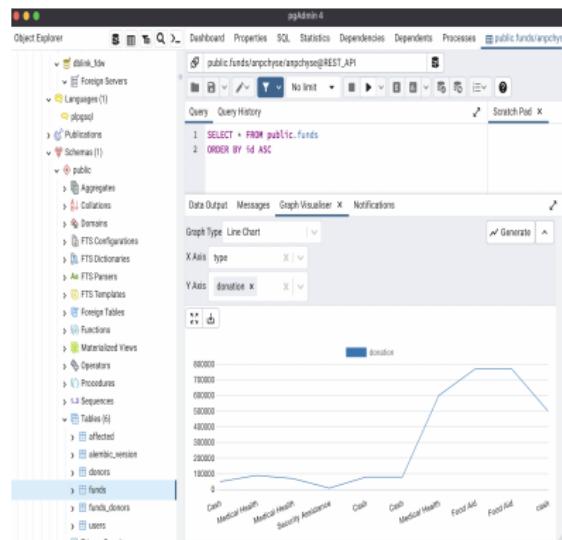


Data Management & Visualization

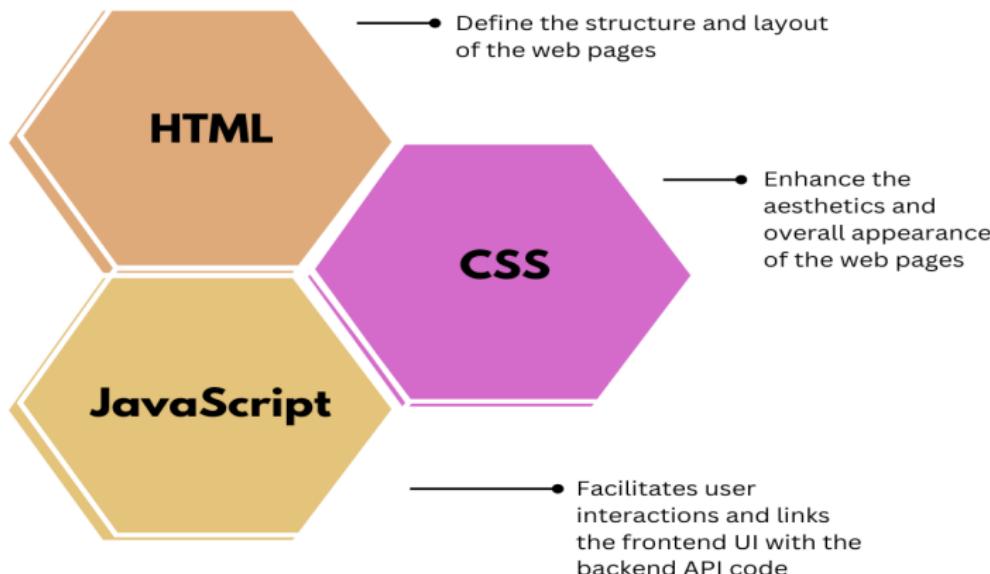
- ◀ Querying & Visualizing the production database:

The screenshot shows the pgAdmin 4 interface. On the left, the Object Explorer displays various database objects like Languages, Publications, Schemas, and Tables. A blue selection bar highlights the 'donors' table under the 'Tables' section. In the center, a query editor window shows a SELECT statement: 'SELECT * FROM public.donors ORDER BY id ASC'. Below it, a results grid displays the following data:

ID	Name	Country
1	Tunisia	
2	KSA	
3	UAE	
4	Qatar	
5	Egypt	
6	Algeria	
7	Morocco	

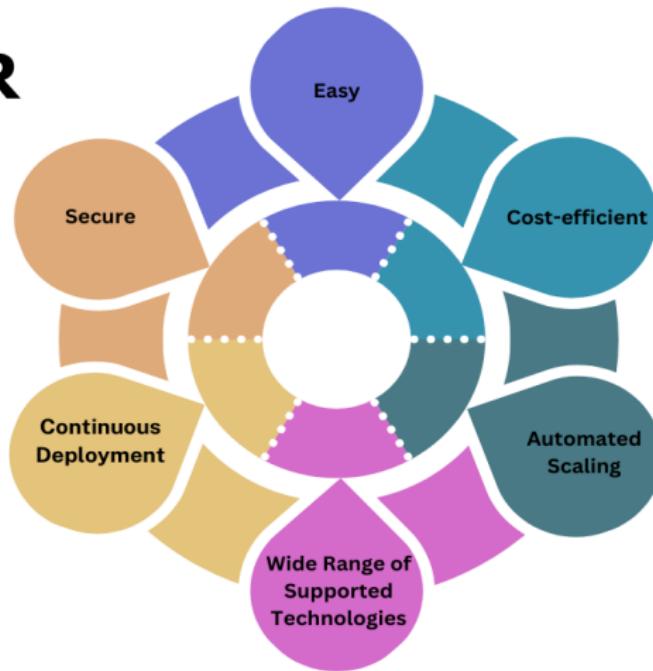


Frontend Development



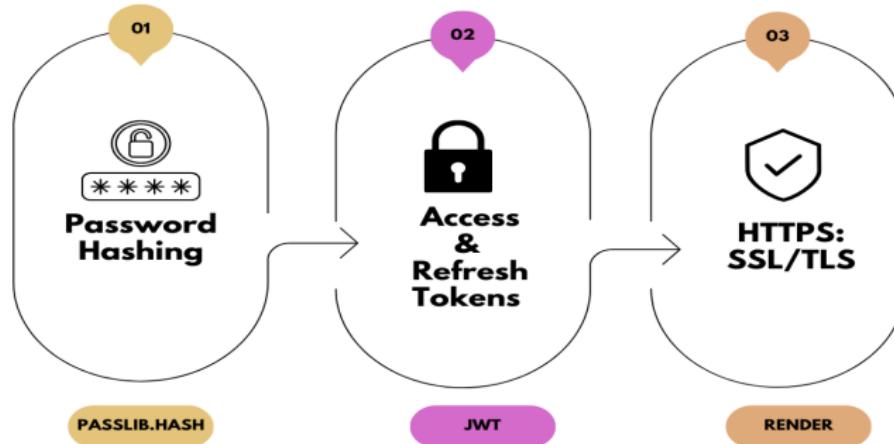
Deployment & Hosting

⚡ RENDER

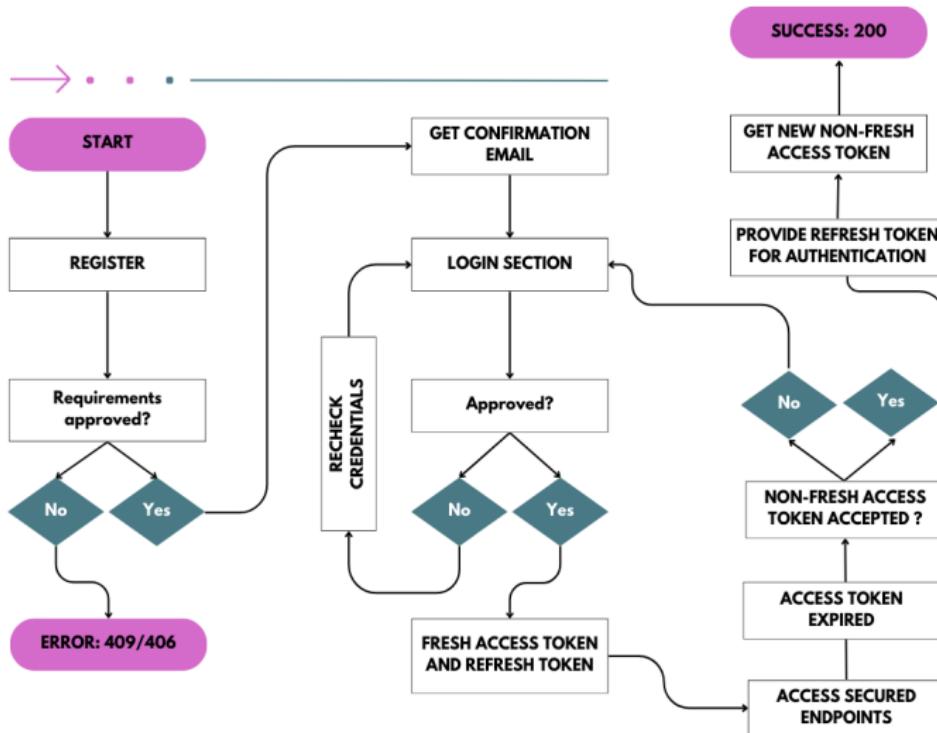


Cyber Security Measures

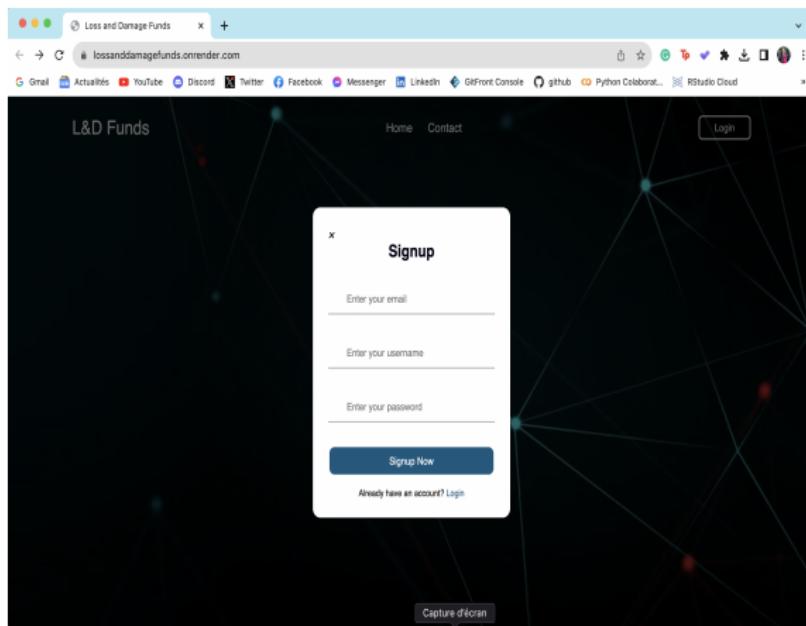
- Three different levels of security are integrated:



Access/Refresh Tokens Protocol:

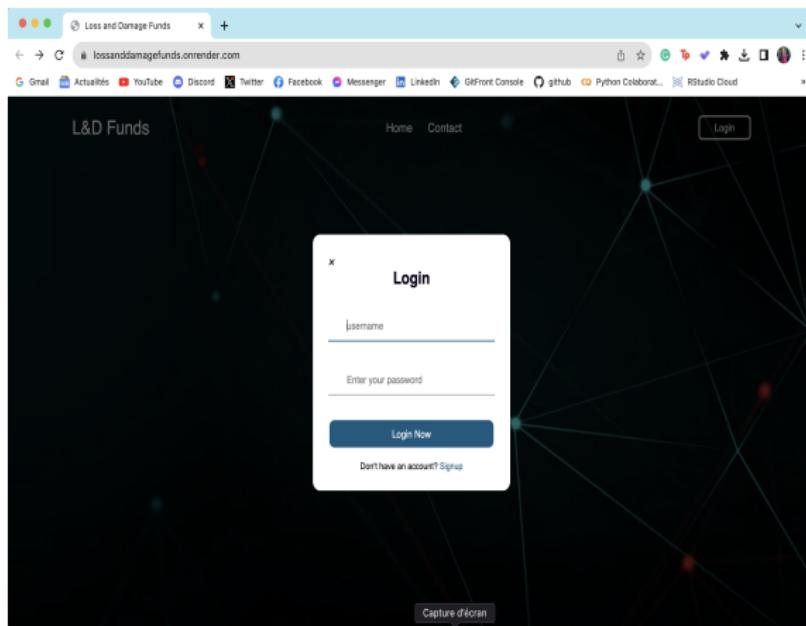


Work Done



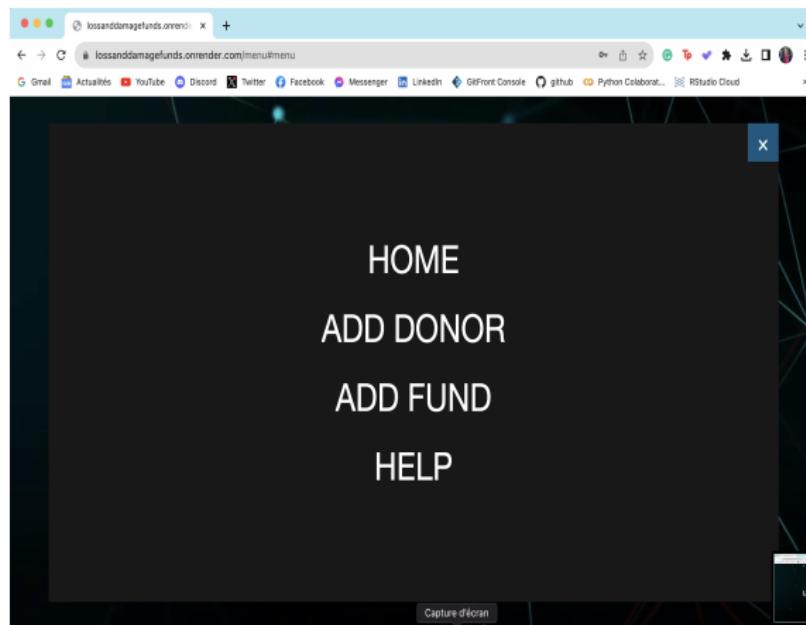
◀ Signup Section

Work Done



◀ Sign in Section

Work Done



◀ Menu Section

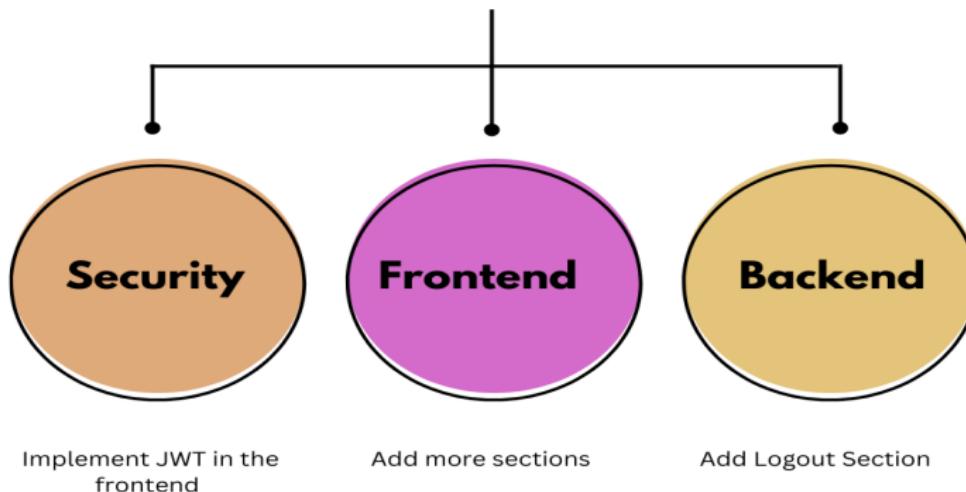
Work Done

The screenshot shows a donation form on a website. At the top, there is a placeholder for 'Donation in k\$' with a large input field. Below it, under 'Affected Country', there is a button labeled 'Palestine'. Under 'Donor', there are four buttons: 'UAE', 'QATAR', 'KSA', and 'EGYPT'. Under 'Type of Donation', there are two rows of buttons: 'Cash', 'Medical Health', 'Technical Assistance', and 'Infrastructure Development' in the top row, and 'Food Aid', 'Environmental Aid', 'Security Assistance', and 'Cultural Exchanges' in the bottom row. At the bottom right of the form area, there is a blue button labeled 'Send'.

◀ Funds Section

Work Plan

Next Steps



Motivation
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Loss & Damage Funds
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Development Process
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Work Done
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Work Plan
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Thank you for your attention!