



 Storing Clients Information on the Private Ethereum Blockchain

 Retrieve Clients Information automatically from the Policy Smart Contract



 Schedule the sending of Premium Payment Reminders to multiple Clients



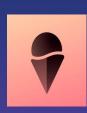
Quick Recap for Sprint 1 and 2

• Set up Besu Blockchain



 Deployed an Automated Smart Contract that emits an event every 25 seconds







 Store the Client's Smart Contract Address (document id)

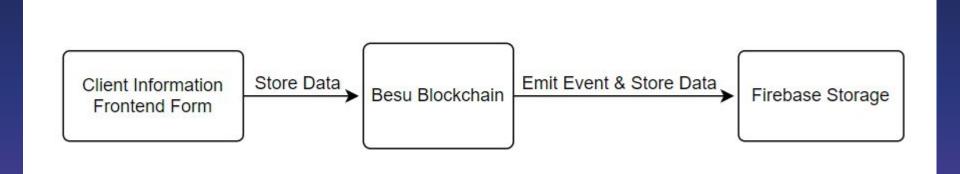
 Within a Collection with the format DDMM of the Client's Start Date of Policy



 Retrieve the Smart Contract Addresses from the specific collection based of the current date

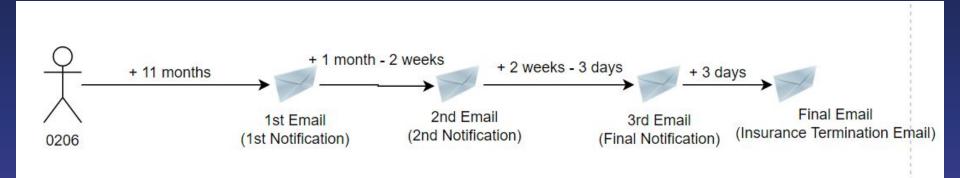
How do know when to Store into Firebase?

For Storing:



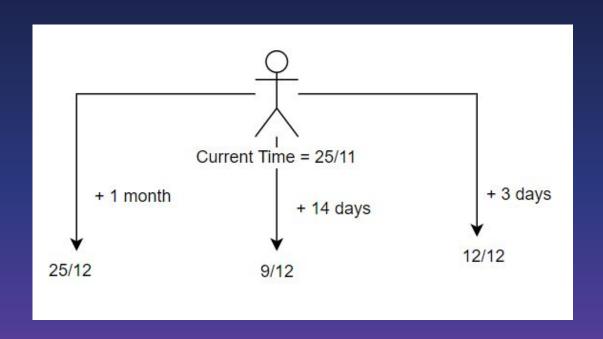
How do know when to Retrieve from Firebase?

Notification Process:

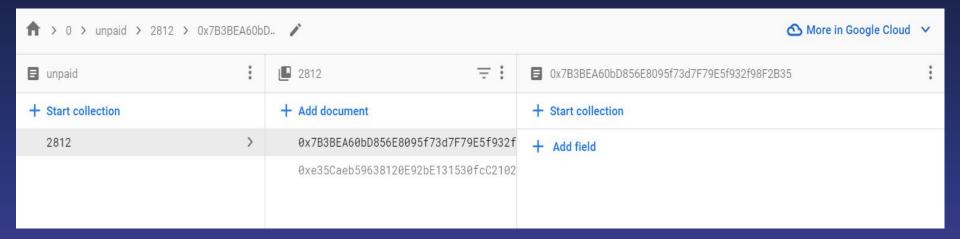


How do know when to Retrieve from Firebase?

Strategy:



Database Structure



Benefits of such a Database Structure?

No Paid Firebase Functions/Extensions needed

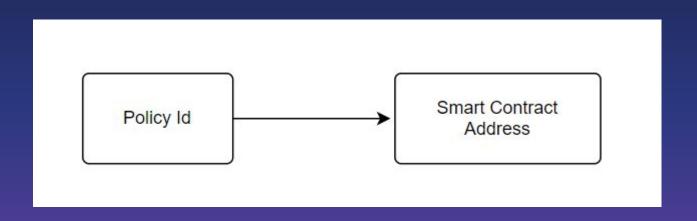
No Queries/Filters Needed



 Less Documents to read and the backend is able to update on the fly

How do we identify the Client's Policy Smart Contract Address?

Create a Mapping Smart Contract which maps:



Add a Payment UI for the Client

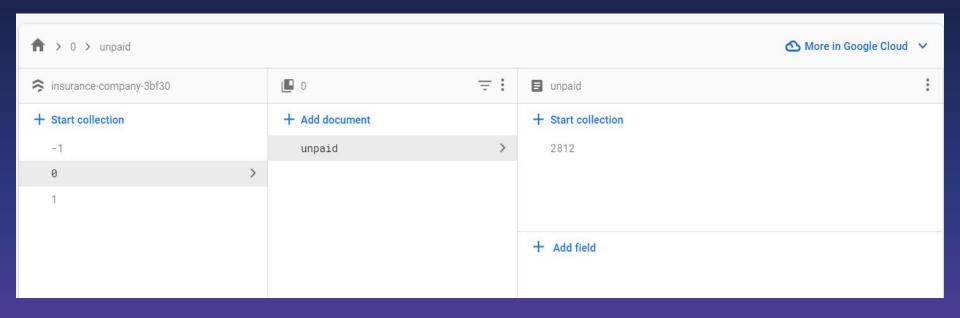
Client is prompted to input their Policy Id

 Retrieve Clients Policy Price based of their Smart Contract Address and prompt Client to make Payment



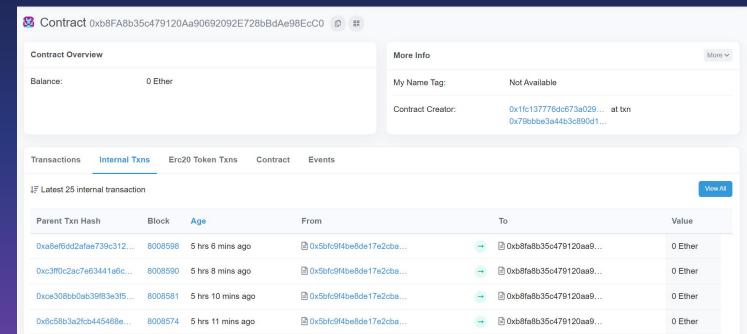
 Upon Payment, Fires an Event to the rpa code to update the payment status for the specific client based of their date of policy

Modify the Database Structure

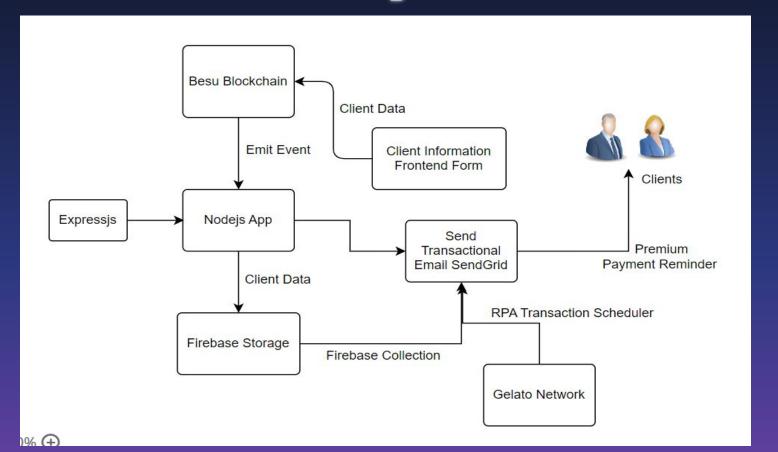


Integrate with the Gelato Subscription

Each Event Subscription fires automatically every 25 seconds, hence we can input our backend code into the subscription. (including hardhat, date objects and firebase code)



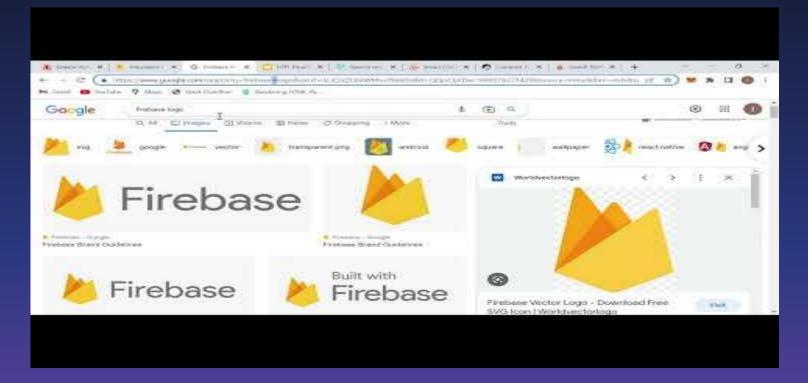
Overview of the Project



Demo (rpaDaily<u>.j</u>s)

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Demo (rpaDaily.js)





 Integrate Node.js Backend with React Frontend

 Send SMS Notification to the Client via Twilo and the Clients Phone Number



 Improve on the UI and Form Inputs with React

