Project Proposal

Samed Kahyaoglu & Guris Ozen

Project

Title	Tweet Verification Service On Ethereum
Summary	Twitter is a platform that brings opinion leaders together with the public. Opinion leaders should be accountable since they have political and social impacts. People use screenshots to mention deleted tweets; however, deleted tweets are not verifiable anymore. The proposed project keep immutable copies of tweets on Ethereum to overcome the ‘deleted tweets’ problem.
Problem	Deleted tweets do not have proof of existence anymore although people need it.
Motivation	The project aims to prevent digitally generated fake tweet screenshots and increase common sense by increasing the sense of responsibility.
Solution	Using in-block storage of Ethereum creates a proof of existence for each tweet.
Keywords	Tweeter, blockchain, Ethereum
Duration	4 Weeks with 2 People

Feasibility

The project aims to solve a basic problem rather than bring out profits. It is a small-scale project focused on social benefit. Since Twitter does not update its structure, it rarely needs maintenance.

The project is planned as open source and can be maintained and supported by open source community. Data is stored in Ethereum, people who wants to save tweets pay for it with gas fees. Back-end server and database are not needed. Gas fee to deploy contract is the only significant expenditure.

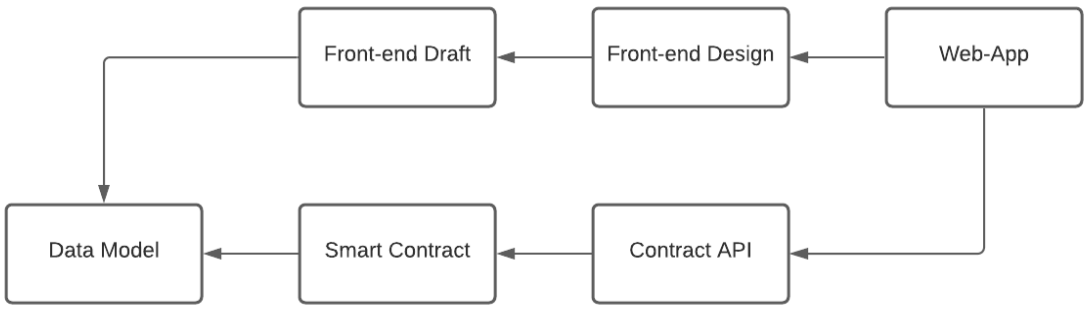
In short, Tweet Verification Service On Ethereum is a viable social responsibility project.

Workforce Plan

Task*	Outcome	Asignees	W1	W2	W3	W4
Design The Application	Data Model, Guide Materials	**Front-end Developer (Guris)** Blockchain Developer (Samed)	**X**			
Implement Smart Contract	Smart Contract	Blockchain Developer (Samed)		**X**		
Make Front-end Draft Design	Front-end Draft	Front-end Developer (Guris)		**X**		
Code API Interface For Smart Contract	Contract API	Blockchain Developer (Samed)			**X**	
Implement The Front-end App	Front-end Design	Front-end Developer (Guris)			**X**	
Integrate Smart Contract To App	Web-app / Tweet Verifier	**Blockchain Developer (Samed)** Front-end Developer (Guris)				**X**

Project Plan

*Each task is a work package



Dependency Graph of Outcomes

Work Packages

Package Name	Design The Application
Objective	Developers agree on details about what to do and how. They clarify their expectations about outputs.
Activities	• Determine the scope of the project • Decide on tech stack • Decide the application architecture
Workforce Cost	2 Developers / 1 Week
Output	Data Model & Guide Materials
Assignees	• Front-end Developer (Guris) • Blockchain Developer (Samed)
Dependencies	-

Package Name	Implement Smart Contract
Objective	Create and deploy a solidity smart contract that can verify tweets.
Activities	• Implement the contract • Deployment • Tests
Workforce Cost	1 Developer / 1 Week
Output	Smart Contract
Asignees	• Blockchain Developer (Samed)
Dependencies	• Data Model & Guide Materials

Package Name	Make Front-end Draft Design
Objective	Determine and implement visual characteristics of the project.
Activities	• Visual design • Implement a model • Take feedbacks
Workforce Cost	1 Developer / 1 Week
Output	Front-end Draft
Asignees	• Front-end Developer (Guris)
Dependencies	• Data Model & Guide Materails

Package Name	Code API Interface For Smart Contract
Objective	Create a contract API to interact with smart contract.
Activities	• Implement API for contract using web3.js • Tests
Workforce Cost	1 Developer / 1 Week
Output	Contract API
Asignees	• Blockchain Developer (Samed)
Dependencies	• Smart Contract

Package Name	Implement The Front-end App
Objective	Complete front-end visual & functional implementation.
Activities	• Improve visual implementation • Implement functionality • Deployment
Workforce Cost	1 Developer / 1 Week
Output	Front-end Design
Asignees	• Front-end Developer (Guris)
Dependencies	• Front-end Draft

Package Name	Integrate Smart Contract To App
Objective	Make the app complete, working & deployed.
Activities	• Integration • Tests & Improvements • Updating deployed version
Workforce Cost	2 Developers / 1 Week
Output	Web-App
Asignees	• Blockchain Developer (Samed) • Front-end Developer (Guris)
Dependencies	• Front-end Design • Contract API

Deliverable Schedule

Date	Deliverable	Person In Charge
3 November 2021	Data Model	Guris Ozen
3 November 2021	Guide Materials	Guris Ozen
10 November 2021	Smart Contract	Samed Kahyaoglu
10 November 2021	Front-end Draft	Guris Ozen
17 November 2021	Contract API	Samed Kahyaoglu
17 November 2021	Front-end Design	Guris Ozen
24 November 2021	Web-App	Samed Kahyaoglu