

# **PROGRESS SO FAR...**

**Presented By : 320**

# PROJECT OVERVIEW

**Project Objectives:** Creating a blockchain-based aircraft maintenance system to enhance its transparency, increased security, and integrity for a streamlined process.

## **Timeline:**

1. Wrote smart contracts using solidity
2. We are developing a front-end model of the website.
3. Deployment of smart contract using remix IDE(as of now)

# FEATURES AND ANALYSIS

1

**Add aircraft to the existing list:** We added aircraft as a struct data type in solidity smart contracts, which takes brand installation date, last Maintenance date, and next maintenance date as parameters.

2

**Create Maintenance:** We used the same approach to add maintenance details and it gets triggered when we click on check maintenance details.

3

**Complete Maintenance:** It is a function that checks whether the maintenance of an aircraft has been done or not if it isn't then it marks it done

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# VALUE TO STAKEHOLDERS

1

**Data Security:** Enhanced security measures provided by blockchain technology.

2

**Cost Savings:** By the use of IPFS we will save gas fees for processing blocks by storing the aircraft images in this way.

3

**Aftermarket Service:** Gives authentic proof for the maintenance records.

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# SCALABILITY

- 1** Eliminate the need for third-party apps for authentication and login process.
- 2** International recognition and standard for the aircrafts maintenance
- 3** Real Time 3D model view of the currently under maintenance airplane parts.

# CHALLENGES AND MILESTONES

## ● Challenge 1

Integrating between different tech stacks.

## ● Challenge 2

Deploying blockchain on a local host.

## ● Milestone 1

Successfully written the smart contracts that form the core of the ethereum development.

## ● Milestone 2

Teamwork and successful collaboration to figure out the solutions to our problems.