# Flight Surety Report

## Setup and Run

### Install

This repository contains Smart Contract code in Solidity (using Truffle), tests (also using Truffle), dApp scaffolding (using HTML, CSS and JS) and server app scaffolding.

To install, download or clone the repo, then:

npm install truffle compile

### Develop Client

To run truffle tests:

truffle test ./test/flightSurety.js truffle test ./test/oracles.js

To use the dapp:

truffle migrate npm run dapp

To view dapp:

http://localhost:8000

### Develop Server

npm run server truffle test ./test/oracles.js

### Deploy

To build dapp for prod: npm run dapp:prod

Deploy the contents of the ./dapp folder

### Resources

* [How does Ethereum work anyway?](https://medium.com/@preethikasireddy/how-does-ethereum-work-anyway-22d1df506369)
* [BIP39 Mnemonic Generator](https://iancoleman.io/bip39/)
* [Truffle Framework](http://truffleframework.com/)
* [Ganache Local Blockchain](http://truffleframework.com/ganache/)
* [Remix Solidity IDE](https://remix.ethereum.org/)
* [Solidity Language Reference](http://solidity.readthedocs.io/en/v0.4.24/)
* [Ethereum Blockchain Explorer](https://etherscan.io/)
* [Web3Js Reference](https://github.com/ethereum/wiki/wiki/JavaScript-API)

## Use Cases

## Class Diagram

## Operation Design

### Initial DApp Web Page

### Register Airline

### Approve Airline

### register Flight

### Buy Insurance

### Update Flight Status