

TEXAS A&M BLOCKCHAIN

TEXAS A&M BLOCKCHAIN DAY

REVPASS

DIGITIZING THE SPORTS PASS

WHO WE ARE

A multidisciplinary, student-led organization researching and developing the disruptive technologies of the future



Project Based Structure providing students with real world experience



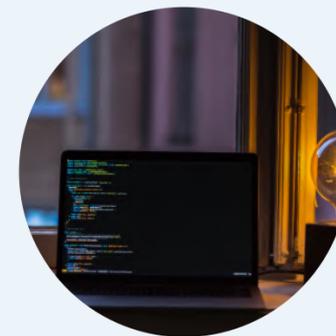
DeFi cohort

LEARN THE FUNDAMENTALS OF DECENTRALIZED FINANCE AND GET YOUR HANDS DIRTY WITH SWAPS, TRADES, AND MORE



Research/Writing

DIVE DEEP INTO NARRATIVES AND TRENDS AND WRITE LONG FORM BLOG POSTS AND TWITTER THREADS UNDER YOUR OWN NAME



Development Cohort

BUILD CHAIN-AGNOSTIC APPLICATIONS AND TACKLE REAL PROBLEMS FACED BY STUDENTS, COMPANIES, AND MORE

TEXAS A&M BLOCKCHAIN DEV COHORT

A team of student developers building real world solutions through a chain-agnostic approach



ISHAN DHANANI
PRODUCT OWNER



JEFF SLOBODKIN
DEVELOPER



DANNY CHEN
DEVELOPER



ALEXEY ZENIN
DEVELOPER



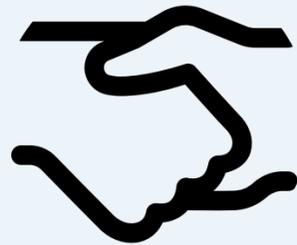
AAYUSH GARG
QA/TESTING



IAN BECKETT
QA/TESTING

Supported by Avalanche 

The Problem



Requires Trust

Must physically exchange and return sports pass



Unequal Access

Students with limited access to group chats cannot sell their pass and vice versa



Inconsistent Pricing

Sellers are expected to sell at face value but it is not enforced by A&M

SOLUTION

A digitized Sports Pass that allows students to safely and equitably exchange passes in a trustless, fairly-priced marketplace



RevPass

A digital sports pass tied to the owner that can be rented to other students



Digital Marketplace

A marketplace that lets buyers view listings and rent a sports pass for the week



Seamless Integration

Novel metadata architecture allows Kyle Field to check the current user of the sports pass and issue a ticket

1. TRUSTLESS

The entire process is digital and secured on-chain

RevPass metadata proves ownership via UIN and our smart contract logic removes a user once their access expires (without a second transaction)

```
self.file = None
self.fingerprints = set()
self.logdupes = True
self.debug = debug
self.logger = logging.get_logger(__name__)
if path:
    self.file = open(os.path.join(job_dir, path), 'w')
    self.file.seek(0)
    self.fingerprints.update([path])

@classmethod
def from_settings(cls, settings):
    debug = settings.getboolean('DEBUG')
    return cls(job_dir=settings.get('JOB_DIR', 'job_dir'))

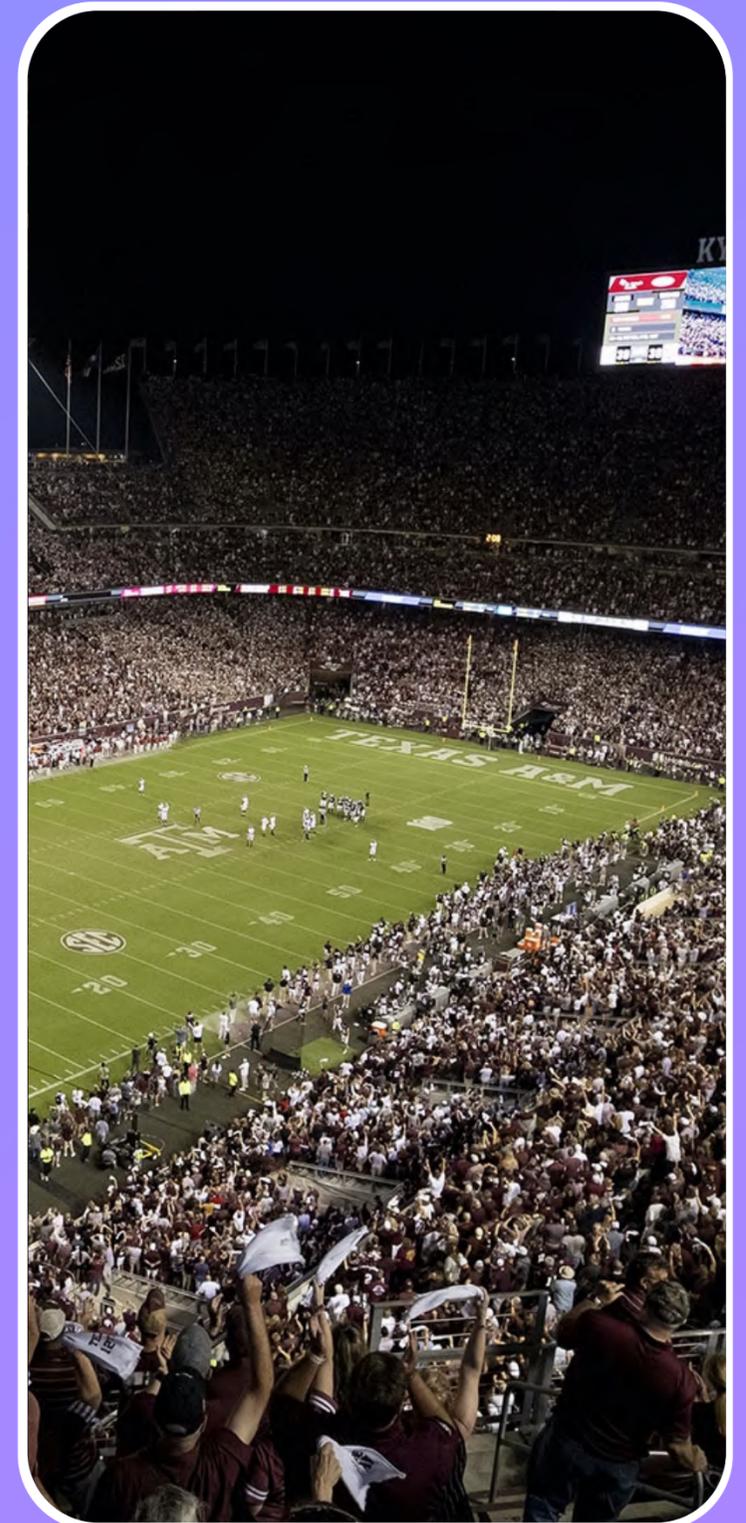
def request_seen(self, request):
    fp = self.request_fingerprint(request)
    if fp in self.fingerprints:
        return True
    self.fingerprints.add(fp)
    if self.file:
        self.file.write(fp + '\n')

def request_fingerprint(self, request):
    return request_fingerprint(request)
```

2. EQUAL ACCESS

Our marketplace is open and public to every Texas A&M student

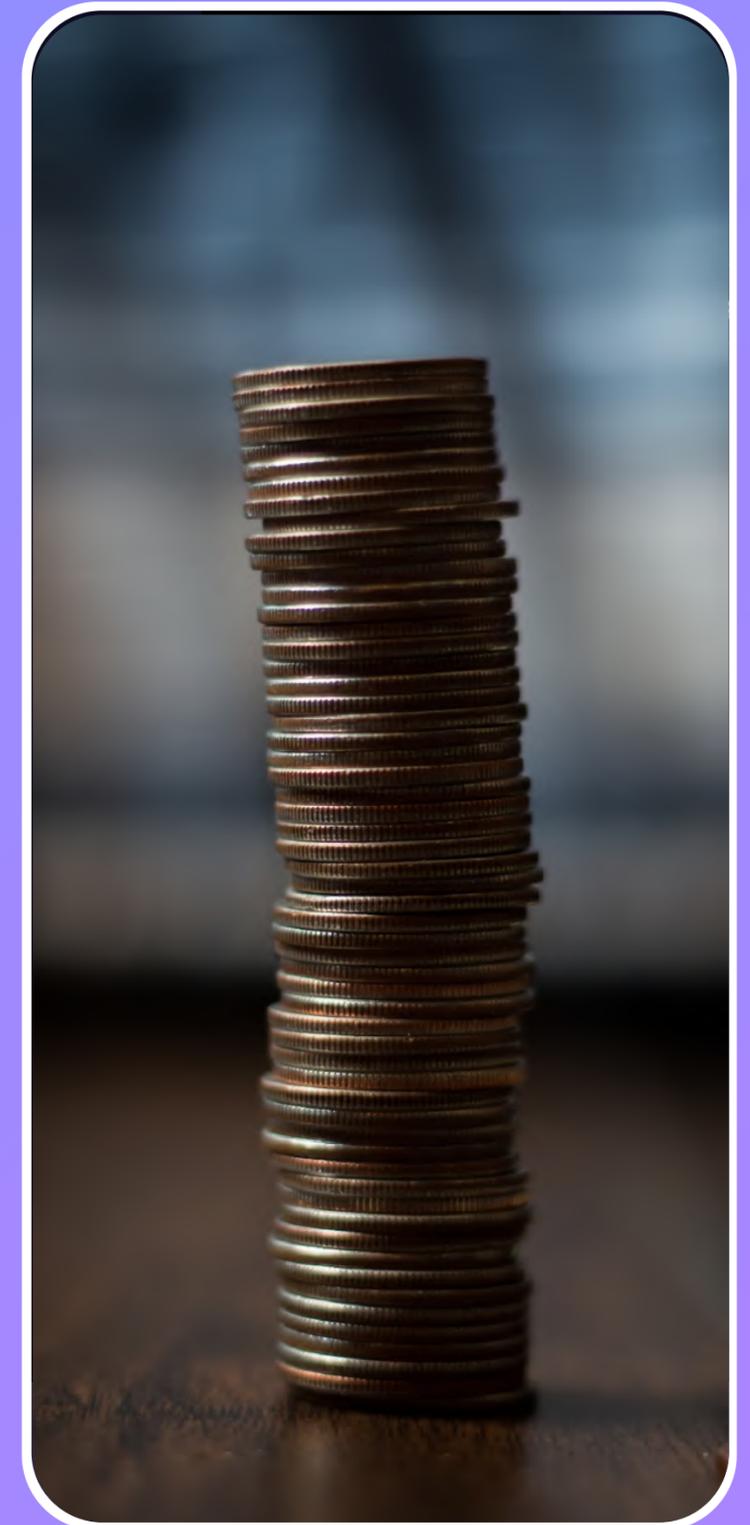
Renters have access to every sports pass in one central location eliminating gated access through GroupMe or Facebook marketplace



3. FAIR PRICING

Listing price is constant and set by the marketplace

Each student can buy their pass at a fair value ensuring compliance with A&M standards and eliminating price gouging



4. SEAMLESS ONBOARDING

The pass can be stored in each student's Texas A&M app

By leveraging Account Abstraction (EIP-4337), each student can have a wallet built into their 12th Man app protected by NetID log in. Our entire flow seamlessly plugs into existing infrastructure



5. FRICTIONLESS INTEGRATION

The ticket pull tradition stays!

Our architecture allows ticket agents to quickly check the state of each pass and use the students UIN to determine if they have access to that sports pass. Screenshots don't work



Benefits to Texas A&M

01

PROFIT INCREASE

More students have access to the games increasing profits for the University across concessions, merchandise, and more

02

NOVEL FAN INTERACTION

Harnessing blockchain technology opens Texas A&M to new ways of interacting with supporters of the 12th Man

03

SAFETY

Our product ensures that sellers are verified and students stay safe when renting a pass

Seamless integration

- Complete front end and final design
- Meet with Texas A&M stakeholders and get access to NetID suite

2023
Q2

- Dev Cohort v2 takes over and continues adding features
- Abstracted Wallet is developed and gated with NetID

Q3

- Abstract wallet implementation inside A&M app
- Official Texas A&M wallet is created
- Final contracts audited and launched on test-net

Q4

- Beta testing begins and some students are issued digital pass to trial
- Minting process is connected to Howdy
- Determine which chain to launch

2024
Q1

- Assess feedback and complete final audits and reviews
- Final testing for each component
- Ticket agents are trained on how to access metadata

Q2

- Final contracts deployed to main net
- Trial run first 2024 Fall semester with sports pass

Q3

OPEN CONTRIBUTIONS!

[HTTPS://GITHUB.COM/TAMUBLOCKCHAIN/REVPASS](https://github.com/TAMUBLOCKCHAIN/REVPASS)

NATSPEC COMMENTS, WHITEPAPER, CUSTOM TESTS

THANK YOU

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TAMUBLOCKCHAIN.XYZ

APPENDIX

MARKET RESEARCH BY TEXAS A&M
CONSULTING GROUP (TACG)