**Scope Document Of FYP**

**Title:** Secure Business Investment platform on Solana

**Members:**

Jawad Asif - 221074

Mahnoor Haider - 221078

M.Aashir - 221112

**Supervisor:**

Mr. Muhammad Sagheer Ahmed

Department of Computer Science

Air University Islamabad (AU)

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15. **Introduction**

Emerging entrepreneurs and small businesses find it increasingly difficult to obtain cash at tight timeframes. For example, cash during series A and series B financing is extremely hard to come by. This project aims to solve this problem by creating a single-use business blockchain crowdfunding platform. The blockchain is implemented using a low-cost system such as Solana, enabling low-transaction fee trading of investments to global users via a dedicated token based system— free from the bounds of NFTs, musicians, and irrelevant intermediaries. It is designed to promote trust and scalability, along with innovation through the embedding of smart contracts and AI based scam detection, which provides a safe environment for both the investors and business founders through milestone-based fund distribution, KYC verification at various tiers, and controlled access within predefined limits.

**Key Areas Of Focus:**

**Purpose:** Invest publicly for profit, not donation here is no charity or donation spend.

**Foundation:** Operated by a low fee system such as Solana.

**Investment Model:** Purely on tokens, purchases made through NFTs contradict this. Milestone focus, defines the cross-section of solution escrow smart contracts, fraud detection AI security cybersecurity autonomy trust.

**User Group:**

Launching verified funding campaigns for entrepreneurs.

Invest and react to the business growth simulation with platform tokens.

## **2. Related System Analysis & Weaknesses**

**Kickstarter:** Creative-project crowdfunding (arts/tech), fiat pledges, all-or-nothing funding, centralized moderation. Trust via an internal “Trust & Safety” team and all-or-nothing rule. Weak on investor protection beyond this. [businessmodelanalyst.com](https://businessmodelanalyst.com/kickstarter-business-model/?srsltid=AfmBOoorKobWGrL8ONUIQcJZ81BJl7B_57qSZDJ3h4sN2Uhzcj1uecKA#:~:text=If%20the%20project%20reaches%20its,collected%2C%20the%20creator%20completes%20the) [help.kickstarter.com](https://help.kickstarter.com/hc/en-us/articles/115005028854-What-does-Kickstarter-do-to-protect-its-community#:~:text=We%20have%20a%20dedicated%20Trust,not%20align%20with%20Our%20Rules).

**GoFundMe:** Personal/charity fundraising, fiat donations, keep-what-you-raise, minimal fees (2.9%+$0.30), donor protection guarantee with refunds if fraud. Centralized; no funding goals or rewards; protection exists but only as goodwill guarantee. [d3.harvard.edu](https://d3.harvard.edu/platform-digit/submission/go-fund-me-free-fundraising-for-the-people-and-causes-you-care-about/#:~:text=donors%20against%20fraud%20through%20mechanisms,Fund%20Me%20will%20donate%20the) [gofundme.com](https://www.gofundme.com/c/blog/gofundme-fees#:~:text=GoFundMe%20charges%20one%20transaction%20fee,fees%20on%20our%20pricing%20page)

**Indiegogo:** General crowdfunding (tech, creative, business), fiat pledges, flexible or fixed funding, 5% fee. Central trust team with KYC and fraud reviews. Weaker protections on flexible campaigns (no refunds unless failed fixed funding). No decentralized oversight. [support.indiegogo.com](https://support.indiegogo.com/hc/en-us/related/click?data=BAh7CjobZGVzdGluYXRpb25fYXJ0aWNsZV9pZGkE2MEvDDoYcmVmZXJyZXJfYXJ0aWNsZV9pZGkEVyg6DDoLbG9jYWxlSSIKZW4tdXMGOgZFVDoIdXJsSSJbL2hjL2VuLXVzL2FydGljbGVzLzIwNDQ1NjQwOC1GZWVzLVByaWNpbmctZm9yLUNhbXBhaWduZXJzLUhvdy1tdWNoLWRvZXMtSW5kaWVnb2dvLWNvc3QGOwhUOglyYW5raQY%3D--ee1c80e36347e709a7c9ee82d557476661c40472#:~:text=To%20support%20your%20campaign%20and,work%20and%20what%20to%20expect) [learn.indiegogo.com](https://learn.indiegogo.com/trust/#:~:text=Your%20trust%20in%20Indiegogo%20is,online%20and%20prevent%20unauthorized%20access)

**Juicebox (Web3):** Ethereum-based DAO-style crowdfunding, crypto contributions (ETH) for project tokens, dynamic tokenomics (discounts, redemption). Community-owned platform. On-chain transparency but no formal escrow or legal recourse; security depends on smart-contract robustness. Innovative token governance but unproven investor safety. [medium.com](https://medium.com/ethsign/whats-juicy-about-juicebox-74251dcc744#:~:text=The%20Juicebox%20protocol%20is%20one,our%20product%20design%20and%20roadmap)[medium.com](https://medium.com/ethsign/whats-juicy-about-juicebox-74251dcc744#:~:text=Fundraising%20on%20Juicebox%20is%20organized,minted%20for%20every%20ETH%20contribution)

**CoinStarter (Web3):** Ethereum ICO launchpad, crypto funding for new tokens. Largely centralized service for token sales with minimal oversight. No integrated milestone or refund mechanism; high risk of pump-and-dump scams. [cryptoslate.com](https://cryptoslate.com/coins/coinstarter/#:~:text=CoinStarter%20is%20a%20first%20of,the%20development%20of%20the%20company)

**Giveth (Web3):** Ethereum donation platform for public goods, crypto gifts (ETH/ERC-20) only. Verifies projects via community vouches, no fees (gas only). Lack of traditional investment model: donors get no share or product, and funds are released immediately to causes. Relies on social vetting rather than legal guarantees.

[docs.giveth.io](https://docs.giveth.io/projectverification#:~:text=Giveth%20is%20progressively%20decentralizing%20its,be%20boosted%20with%20%209)

## **3. Problem Statement**

Conventional crowdfunding stages such as Kickstarter, GoFundMe, and Indiegogo have empowered millions of makers and business visionaries to raise stores. In any case, these Web2 stages endure from a few essential impediments that influence straightforwardness, responsibility, and financial specialist security. In parallel, rising blockchain-based (Web3) crowdfunding stages offer decentralization and token motivations but still drop brief in basic ranges such as believe instruments, milestone-based payment, and real-world trade appropriateness.

**Need of Financial specialist Assurance and Support Misuse**

Most stages (Kickstarter, Indiegogo, CoinStarter) dispense reserves to extend makers without satisfactory shields. Supporters have small or no plan of action on the off chance that the venture falls flat or in the event that stores are abused. There's no upheld escrow or milestone-based discharge framework, coming about in a tall chance of tricks and unfulfilled promises.

**Centralized Control and Manual Oversight**

Web2 stages depend intensely on centralized Believe & Security groups for extortion location and campaign endorsement. This approach is constrained in versatility and inclined to human blunder or predisposition. Moreover, these stages can delist ventures or solidify stores at will, raising concerns almost censorship and need of transparency.

**No Genuine Proprietorship or Administration Rights for Backers**

Crowdfunding supporters ordinarily get as it were rewards or typical tokens with no real utility. There's no progressing administration component to include sponsor in decision-making or turning point endorsements, coming about in a detached speculator involvement with constrained impact over venture success.

**Limited Utilize of Shrewd Contracts and Automation**

Despite the guarantee of blockchain innovation, numerous Web3 stages come up short to completely utilize shrewd contracts for straightforward, rule-based finance administration. A few depend on outside instruments or off-chain coordination, which debilitates believe and makes vulnerabilities.

**No Centered Stage for Commerce Crowdfunding**

Existing stages cater to a wide assortment of utilize cases (craftsmanship, charity, individual causes, crypto new companies), making them ill-suited for organized trade speculation. Business people looking for proficient, adaptable, and reliable subsidizing channels confront a divided and wasteful environment.

## **4. Problem Solution / Objectives of the Proposed System**

**Gaps Addressed by the Planned Solana Platform:**

**Business-Only Focus:** Unlike GoFundMe or Giveth (charities) or Kickstarter (creative projects), it targets entrepreneurial businesses and startups only. This specialization allows tailored features (e.g. legal structure, tax compliance) and avoids the donation/charity conventions of other platforms.

**Crypto-native (SPL Token) Funding:** Backers invest in the platform’s native Solana SPL token, aligning incentives via tokenomics. This provides the speed and low fees of Solana, unlike fiat Web2 payments, and avoids the NFT gimmick (non-NFT tokens keep governance simple). Compared to Juicebox’s Ethereum (ETH) donations, the SPL token can have built-in utility/governance and be easily listed on Solana DEXs.

**Milestone-Based Escrow:** Funds are held in smart contracts and released only when predefined milestones are met. This directly addresses a key weakness of Kickstarter/Indiegogo, where funds go all at once and backers have no control if projects stall. By contrast, our platform’s contract ensures progress-dependent disbursement, giving investors legal-backed assurance of accountability (on-chain and visible to all).

**AI-Driven Risk Analysis:** Where existing platforms rely on manual reviews (Kickstarter’s Trust & Safety team, Indiegogo’s mixed automated/manual checks, the planned app employs AI to scan proposals and backers. This advanced due-diligence aims to flag red flags automatically (e.g. unrealistic timelines, plagiarized content) and assess fraud risk, going beyond the human-limited oversight of current systems. [help.kickstarter.com](https://help.kickstarter.com/hc/en-us/articles/115005028854-What-does-Kickstarter-do-to-protect-its-community#:~:text=We%20have%20a%20dedicated%20Trust,not%20align%20with%20Our%20Rules)

**Token Governance for Investors:** Backers receive project tokens with governance rights. This gives investors a voice (voting on updates or milestone acceptance), a feature absent in all listed platforms. In effect, investors help steer the project through decentralized governance, improving transparency and engagement beyond the passive pledge models of Kickstarter/GFM and even beyond Juicebox’s one-way token issuance.

**Enhanced Trust via Decentralization:** By building on a permissionless blockchain, the platform avoids single-point-of-failure of Web2 services. All project code and milestone outcomes are public and tamper-resistant. Combined with the community-governance token model, trust does not rest on a central company or a single verifier. (For example, Giveth’s vouching is community-driven, but our system adds algorithmic checks and binding contracts.) [docs.giveth.io](https://docs.giveth.io/projectverification#:~:text=Giveth%20is%20progressively%20decentralizing%20its,be%20boosted%20with%20%209)

**No Charities/Donations:** Unlike Giveth or The Giving Block (which focus on philanthropy), the new platform is explicit about commercial fundraising. This avoids the complication of “public good” funding rules and focuses on investor protection and ROI. [blog.giveth.io](https://blog.giveth.io/the-best-crypto-fundraising-platforms-in-2023-cf234227d36a?gi=2a39dd8f362b#:~:text=3)

## **5. Scope**

This extend will convey a full-stack, Solana-based crowdfunding stage custom fitted only for trade financing. It envelops all components from on-chain token mechanics and smart-contract driven escrow, through AI-powered believe and proposal administrations, to natural role-based dashboards and administration instruments. The scope is planned to guarantee straightforwardness, financial specialist security, and consistent client experience without NFTs, centering exclusively on a local SPL token.

**In Scope:**

User & Personality Management:

Wallet-based onboarding (Apparition) + discretionary email/KYC flows

Role-based get to for Financial specialists, Makers, and Admins

PlatformToken (SPL) Service:

Create, mint, burn, and oversee the local SPL token

On-chain staking, locking, and voting mechanics

Campaign Lifecycle

Project accommodation with turning points, media transfers, and roadmap

Admin endorsement workflow and Verified identification by means of layered KYC

Public posting, look, and AI-driven personalized recommendations

Investment & Escrow

Token-only ventures, real-time wallet integration

Milestone-based support locking and automated/DAO-voted release

Auto-refund for neglected goals

AI-Enhanced Believe & Intelligence

Scam-detection models hailing hazardous proposition or behaviors

NLP scoring of pitches (Trust & Feasibility score)

Personalized “You Might Like venture” recommendations

GPT-powered chatbot for client bolster and campaign copy-assistance

Governance & Community Controls

On-chain DAO for platform-level recommendations and voting

Public Q&A, upvote/downvote on upgrades, and community feedback

Admin control instruments, manual abrogates, and delisting flows

**Out of Scope:**

NFT stamping, administration, or marketplaces

Fiat installment rails past discretionary on-chain swap integrations

Non-business-focused campaigns (charity, individual causes)

Legacy blockchain back (Ethereum mainnet, Bitcoin)

**6. Modules**

**1. User Authentication & Access Control**

**Scope**: Sign-up/login via wallet (e.g., Phantom), email (optional), and role-based access (Investor / Project Creator / Admin).

**Features**:

* + Wallet authentication (Solana SPL)
  + Role-based dashboards
  + Email/KYC onboarding (optional)

**2. Creator KYC & Business Verification System**

**Scope**: Tiered KYC process to build trust.

**Features**:

* + Basic KYC: Email, phone, ID
  + Advanced KYC: Business docs, tax ID, address
  + "Verified" badge for trusted creators

**3. Project Creation & Submission**

**Scope**: Project creation with roadmap, funding goal, media, milestones.

**Features**:

* + Submit roadmap with milestone details
  + Upload media (video, images, documents)
  + Set funding goal, token ratio, deadlines
  + Choose payout model (milestone-based)

**4. Milestone-Based Smart Contract Escrow System**

**Scope**: Fund locking and milestone payouts on Solana.

**Features**:

* + Funds locked via smart contract
  + Triggered payouts on milestone verification
  + Refund/vote system if milestones fail

**5. Token (Coin) Management System**

* **Scope**: Your platform’s native token, replacing NFTs and enabling investments.
* **Features**:
  + SPL token creation and distribution
  + Token staking, rewards, and voting power
  + Token locking for long-term perks

**6. Investment & Funding Mechanism**

* **Scope**: Investors can fund businesses using your native token.
* **Features**:
  + Token-based funding with real-time wallet interaction
  + Minimum/maximum investment limits
  + Auto-conversion if other crypto accepted (optional)

**7. AI-Driven Scam Detection & Risk Analysis**

* **Scope**: AI models to detect scam patterns or fake campaigns.
* **Features**:
  + Risk scoring on new projects
  + Detect fake uploads, copied content, risky text
  + Flag suspicious wallet behavior

**8. Trust & Review System (Voting + Escrow Release)**

* **Scope**: Crowd-based trust system for milestone fund release.
* **Features**:
  + Upvote/downvote on updates and progress
  + Voting for fund release or refund
  + Escrow tied to consensus verification

**9. Public Q&A + Comment Threads**

* **Scope**: Transparency through open communication.
* **Features**:
  + Public questions per campaign
  + Creator answers + reputation points
  + Moderation tools for spam or abuse

**10. Progress Tracking & Roadmap Enforcement**

* **Scope**: Creator must post updates to claim next milestone.
* **Features**:
  + Mandatory text, image, video proof per milestone
  + GitHub link, factory/media uploads
  + Auto-reminder for deadlines

**11. AI-Based Project Recommendation System**

* **Scope**: Personalized suggestions for investors using AI.
* **Features**:
  + Suggest projects based on wallet behavior
  + Match preferences: region, funding stage, category
  + Risk-level filtering

**12. Education & Risk Awareness Module**

* **Scope**: Educate users on investing safely.
* **Features**:
  + Risk disclaimers & investing guides
  + “Red flags” checklist
  + Interactive tooltips for first-time users

**13. Admin Panel + Moderation Tools**

* **Scope**: Admin dashboard for managing content, bans, reviews.
* **Features**:
  + Delist non-compliant campaigns
  + Review AI flags and user reports
  + Ban/suspend users or projects
  + Manual milestone override in disputes

**14. Reputation & History System**

* **Scope**: Score businesses on transparency & performance.
* **Features**:
  + Public performance history of creators
  + Score based on on-time delivery, updates, backer ratings
  + Highlight “Trusted Founders”

**15. Token-Based Utility & Reward System**

* **Scope**: Unlock benefits using tokens alone (no NFTs).
* **Features**:
  + Early access for top token holders
  + Governance votes on platform decisions
  + Platform fee discounts for stakers

**16. Analytics & Reporting Dashboard**

* **Scope**: Real-time stats for both investors and creators.
* **Features**:
  + Portfolio tracking for investors
  + Funding progress, backer stats for creators
  + Platform-wide charts and insights

**17. Community Reporting & Feedback System**

* **Scope**: Crowdsourced moderation to identify scam patterns early.
* **Features**:
  + “Report this project” button
  + Reputation deduction on verified false flags
  + Manual + AI-based pattern analysis

## **7. System Limitations / Constraints**

**Blockchain Throughput & Availability**

Solana network congestion or outages can delay transactions (investments, milestone releases).

Dependence on external RPC providers (QuickNode, public endpoints) may introduce rate limits or downtime.

**KYC & Data Privacy**

Tiered business verification requires handling sensitive PII; compliance with GDPR/CCPA or other data-protection regulations is mandatory.

Storage of documents (even if off-chain) must be secure and encrypted.

**AI Model Accuracy & Bias**

Scam-detection and pitch-scoring models can produce false positives/negatives, requiring human review workflows.

Training data must be continually updated to adapt to new fraud patterns and business domains.

**Token Liquidity & Market Dynamics**

PlatformToken’s value may fluctuate, affecting investor confidence and campaign economics.

Reliance on Solana DEXs or swap integrations introduces slippage and counterparty risks.

**Regulatory & Legal Constraints**

Business equity or revenue-share mechanisms may trigger securities regulations in some jurisdictions.

Ongoing legal review is essential before enabling advanced perks or governance-token utilities.

## **8. Data Gathering Approach**

**On-Chain Data:**

Transaction Streams: Real-time bolsters of PlatformToken exchanges, wallet equalizations, escrow locks, and turning point payouts (through Solana RPC).

DAO Voting Logs: Proposition entries, vote counts, and execution occasions for administration analytics.

Smart-Contract Occasions: Campaign creation, overhaul entries, venture records, and discount triggers.

**Off-Chain Data:**

KYC & Confirmation Records: Scrambled personality archives, trade enrollments, and badge-issuance history.

User Interaction Measurements: Clickstreams, time-on-page, cart/pledge forsake rates, and support/chatbot transcripts.

Community Criticism: Open Q&A strings, up/down-votes on upgrades, Report Project banners, and arbitrator actions.

**AI Preparing & Enhancement Data:**

Fraud Design Store: Curated illustrations of trick pitches, phishing endeavors, and on-chain pump-and-dump behaviors.

Pitch & Guide Corpus: Amassed, anonymized content and interactive media from past campaigns tagged with results (fruitful vs. failed).

Market & Assumption Nourishes: Outside social media and news assumption on ventures, segments, and key wallet addresses.

**Security & Compliance Measures:**

Data Minimization: As it were collect fundamental KYC areas and pseudonymize identifiable information where possible.

Secure Capacity: Off-chain reports and logs put away scrambled, with strict get to controls and review trails.

Consent & Straightforwardness: Clients unequivocally select in for AI-driven proposals, and are educated how their information is utilized.

## **9. Tools and Technologies**

**Blockchain & Smart Contracts:**

Solana & Anchor (Rust framework) for SPL token, escrow and DAO contracts

Phantom Wallet & Solana Wallet Adapter for user wallet integration

QuickNode (or self-hosted Solana RPC) for reliable on-chain access

**Frontend:**

Next.js for a responsive dApp UI

Tailwind CSS for rapid styling

Solana Web3.js for blockchain interactions

**Backend & APIs:**

Node.js / Express or Firebase Functions for off-chain services (KYC, user profiles)

PostgreSQL (or Firestore) for transactional and user data

IPFS / Arweave via Pinata or NFT.Storage for secure media/metadata storage

**AI & Data Science:**

Python with TensorFlow / PyTorch for scam-detection and pitch-scoring models

OpenAI GPT API (via LangChain) for chatbot assistant and recommendation orchestration

Pinecone (vector DB) for embedding-based project search and “You Might Like” engine

**KYC & Verification:**

Sumsub or Veriff for tiered identity/business document checks

**DevOps & Monitoring:**

GitHub Actions for CI/CD pipelines (smart contracts, frontend, backend)

Docker / serverless for containerized services

**Security & Compliance:**

OpenZeppelin audits for smart contracts

SSL/TLS, encrypted storage, and role-based access control

**10. Project Stakeholders and Roles**

| **Project**  **Sponsor** | Air University Islamabad |
| --- | --- |

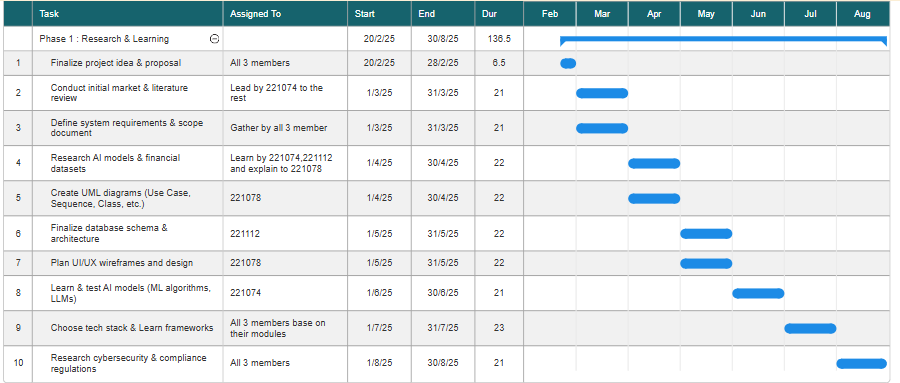
| **Stakeholder** | ● Jawad Asif - Project Leader (Full Stack & AI, ML Engineer)  ● Mahnoor Haider - UI,UX (Designer, Researcher & Analyser)  ● M.Aashir - Devops Engineer (also Database core working)  ● Mr. Muhammad Sagheer Ahmed - Supervisor  ● Final Year Project Committee: Evaluation of project |
| --- | --- |

**11. Module based Work Division**

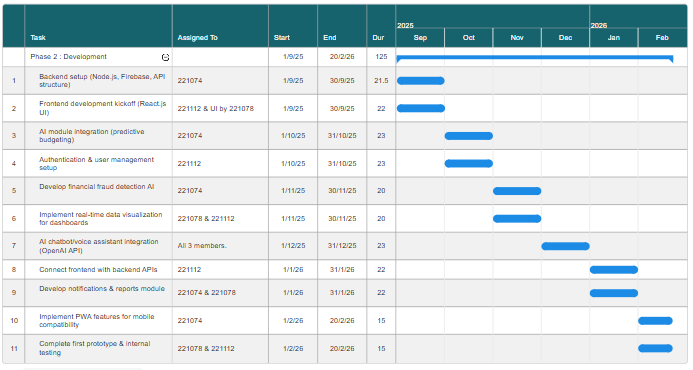
| **Student Name** | **Student Registration Number** | **Responsibility/ Module / Feature** |
| --- | --- | --- |
| Jawad Asif | 221074 | 1. **Smart Contracts & Token Logic**  • SPL Token mint/burn & management  • Escrow & milestone-release contracts  • Investment locking & refund workflows  2. **AI Core Services**  • Scam-detection ML models  • NLP “Trust & Feasibility” scoring  • Recommendation engine embeddings (via Pinecone)  3. **Backend & API**  • Node.js/Express integrations (KYC, off-chain data)  • GPT-powered chatbot & copy assistant APIs  4. **Frontend Implementation**  • React/Next.js development (wallet connect, PWA)  • Solana Web3.js calls & state management |
| Mahnoor Haider | 221078 | 1. **UX/UI Design**  • Wireframes & high-fidelity mockups for all dashboards and public pages  • Responsive design for desktop & mobile  2. **User-Facing Modules**  • Auth & Identity flows (wallet + KYC)  • Project submission & discovery pages  • Public Q&A, feedback threads & education modules  3. **Data Visualization & Documentation**  • Analytics dashboard charts/reports design  • User guides, onboarding tooltips, “red-flags” checklist  • Literature review & final project report |
| M. Aashir | 221112 | 1. **Database & Off-Chain Storage**  • PostgreSQL / Firestore schema for users, projects, votes  • IPFS/Arweave integration for media & metadata  3. **Performance & Deployment**  • CI/CD pipelines (GitHub Actions, Docker)  • Solana RPC setup (QuickNode) & monitoring (Sentry/Logflare)  • Infrastructure as code & uptime/alerting configuratio |

**12. Gantt Chart**

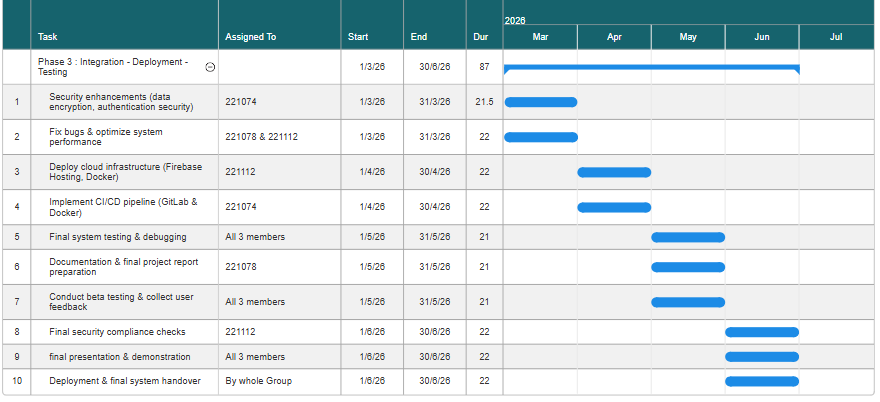
* **Phase 1: FYP - 1**



* **Phase 2: FYP - 2**



* **Phase 3: FYP - 3**



## **13. Mockups**

## [MockUp Link](https://www.canva.com/design/DAGoxRCu58I/FSk1G4A5Kow6SGQ-9fvOkA/edit?utm_content=DAGoxRCu58I&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton)

## **14. References**

**Solana Documentation:**  
 https://docs.solana.com/

**Phantom Wallet Developer Docs:**  
 https://docs.phantom.app/

**OpenZeppelin & Anchor Patterns:**  
 OpenZeppelin Contracts: https://docs.openzeppelin.com/  
 Anchor Framework: https://project-serum.github.io/anchor/

**QuickNode Solana RPC:**  
 https://www.quicknode.com/chains/solana

**IPFS & Arweave Storage:**  
 IPFS:<https://ipfs.io/> NFT.Storage:<https://nft.storage/> Arweave:<https://www.arweave.org/>

**OpenAI GPT API:**  
<https://platform.openai.com/docs/api-reference>

**TensorFlow & PyTorch:**  
 TensorFlow:<https://www.tensorflow.org/> PyTorch:<https://pytorch.org/>

**LangChain & Pinecone:**  
 LangChain: https://python.langchain.com/  
 Pinecone Vector Database:<https://www.pinecone.io/>

**Sumsub & Veriff (KYC Providers):**  
 Sumsub:<https://sumsub.com/> Veriff:<https://veriff.com/>

**GitHub Actions (CI/CD):**  
<https://docs.github.com/actions>

**Sentry & Logflare (Monitoring & Logging):**  
 Sentry:<https://sentry.io/> Logflare:<https://logflare.app/>

**Kickstarter Trust & Safety:**  
 https://help.kickstarter.com/hc/en-us/categories/360002042453-Trust-Safety

**Juicebox Protocol**:  
<https://juicebox.money/> https://docs.juicebox.money/

**Giveth & DeVouch:**  
 Giveth:<https://giveth.io/>

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