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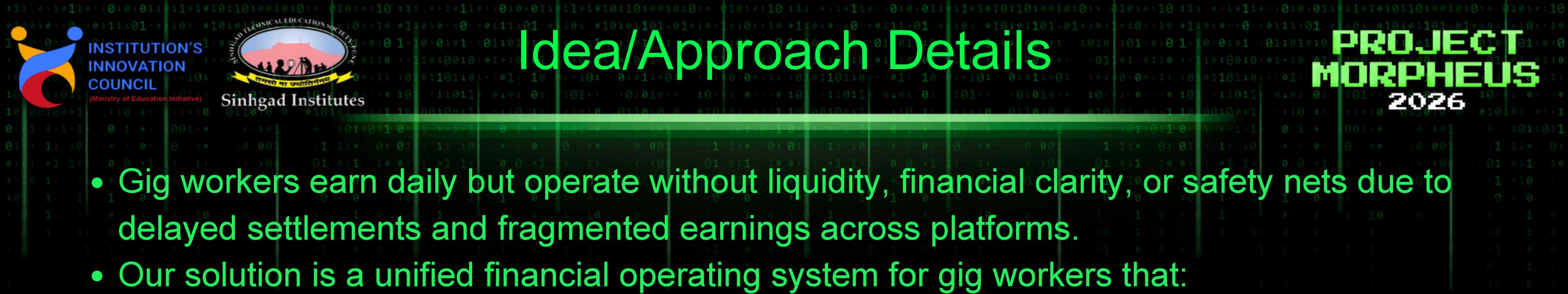
Sinhgad Institutes

(Ministry of Education Initiative)

TITLE PAGE

PROJECT
MORPHEUS
2026

- Problem Statement ID: **FT009**
- Problem Statement Title: **Gig Worker Payment & Benefits Platform**
- Domain: **Fintech**
- Team Name: **Finovators**
- Team Leader Name: **Nihal Mishra**



Idea/Approach Details

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- Gig workers earn daily but operate without liquidity, financial clarity, or safety nets due to delayed settlements and fragmented earnings across platforms.
- Our solution is a unified financial operating system for gig workers that:

Earnings Aggregation

Aggregates earnings from multiple gig platforms into one place.

Net Earnings Calculation

Calculates real net earnings after deducting all expenses.

Instant Withdrawal

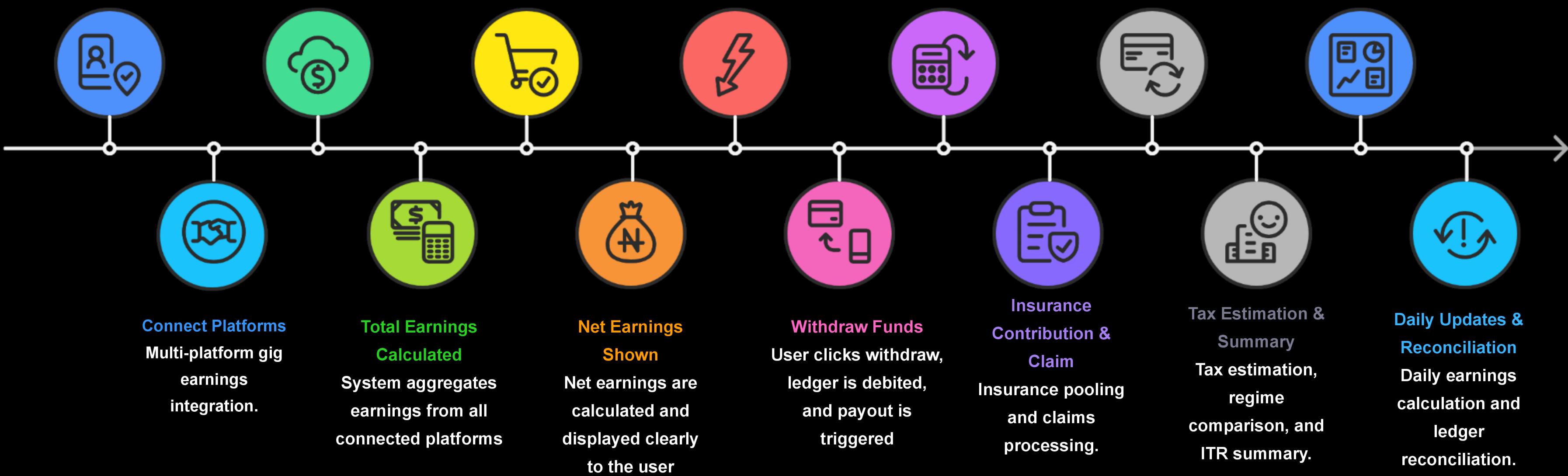
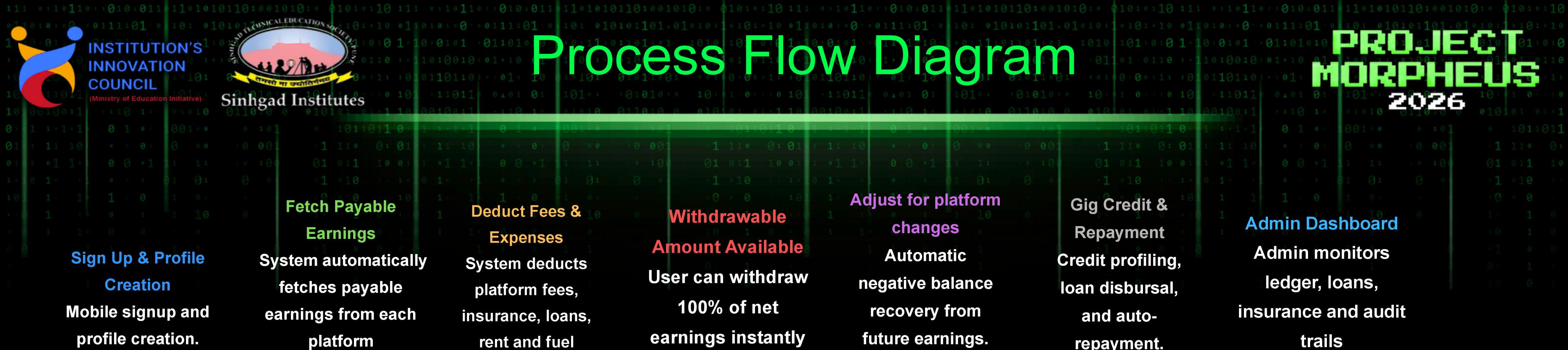
Enables instant withdrawal of net payable earnings.

Support Services

Provides expense tracking, micro-insurance, loans, and tax filing support.

- The platform is ledger-based and works without relying on bank transaction data or manual receipts, making it scalable and practical.

We compute instant liquidity from earnings data, not from bank balances or settlements.





Methodology Used



Platform-Reported Payable Earnings

Source of truth for earnings



Deterministic Ledger-Based Liquidity Calculation

Reliable liquidity calculation without credit scoring



Expense Estimation with User Override

Estimated expenses with user control



Pool-Based Micro-Insurance Model

Shared insurance pool for small risks



Partner-Based Loan Service (LSP Model)

Loan services through partners



Chatbot-Assisted Tax Calculation and Filing

Automated tax assistance

This methodology ensures low friction, financial accuracy, and scalability.

MVP focuses on ledger, earnings aggregation, and instant withdrawal; other services are built as modular extensions.



Solution Concept & Feasibility

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Solution Concept: A financial layer on top of gig platforms that converts earnings into usable money instantly, while also enabling long-term financial security.

Feasibility_(24-Hour Build)_

The solution is feasible within a hackathon timeframe because the **core innovation is rule-based and ledger-driven**, not integration-heavy.

- Gig platform data is **mocked/simulated** to validate logic
- No real money movement or regulatory integration is required
- The MVP focuses on **earnings aggregation, ledger calculation, and instant withdrawal simulation**
- Insurance, loans, and tax features are **ledger-powered demo flows**

The demo focuses on ledger + instant withdrawal; other services reuse the same ledger data..



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Use Cases & Description



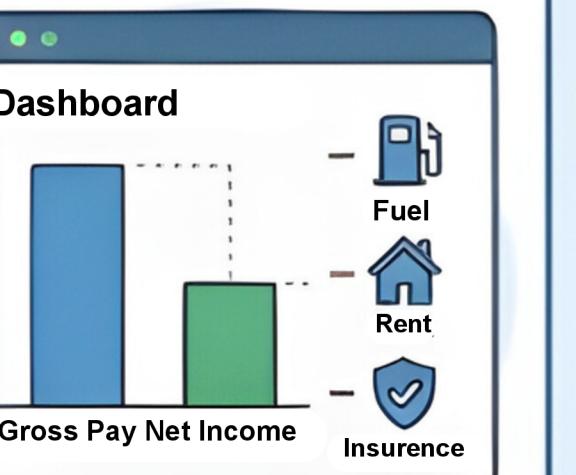
1. INSTANT ACCESS

Immediate withdrawal of net earnings. No waiting for cycles.



2. EXPENSE TRACKING

Shows real take-home income after deductions.



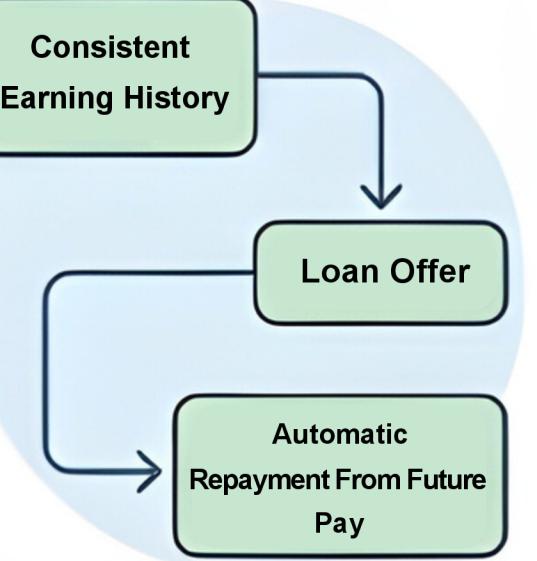
3. MICRO-INSURANCE

Accident & health coverage via shared pool



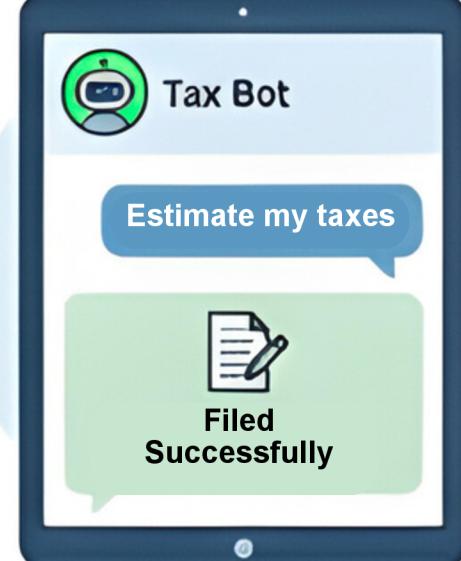
4. SHORT-TERM LOANS

Based on earnings consistency. Auto-recovery.



5. TAX FILING ASSISTANCE

Chatbot estimates & files using ledger data.





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Technology Stack Used

Frontend



HTML - CSS - JAVASCRIPT

Database



Postgre SQL

Backend



Python - FastAPI

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Challenges		Constraints	
Platform earnings adjustments		Expense estimation accuracy	
Financial risk from instant withdrawals		Regulatory compliance	
Withdrawals limited to platform-reported payable earnings		Ledger-based reconciliation against future earnings	
Partner-based insurance and lending model		User-editable expense estimates	