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Rukayya — EMS + Gurukul User Tracking System Task

PRANA-E (Enterprise Cognitive Telemetry Engine for EMS)  
Work honesty & engagement intelligence for BHIV

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READ THIS FIRST (MANDATORY)

You are not building productivity software.  
You are not building time-tracking.

You are building truth detection for human work.

This system will determine:

- Who is actually working
- Who is idle but claiming time
- Who is focused vs distracted

Your system becomes the behavioral backbone for:

- Karma scoring
- Payroll trust
- Student integrity
- Corporate governance

You must:

- Capture real human activity
- Eliminate fake “open tab” work
- Feed clean data into the BHIV Bucket
- Never spy invasively
- Never guess or fake signals

This must be deterministic, ethical, and reliable.

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## INTEGRATION BLOCK

You will integrate with:

- Rukayya — PRANA-G (Student & learning telemetry)
- Ashmit — BHIV Bucket (PRANA ingest + ledger)
- Siddhesh — Karma Tracker (scoring & trust)
- Yashika — EMS Backend (employee\_id, task\_id)
- Soham — EMS Frontend (hooks + UI events)

You produce PRANA-E packets that merge cleanly with PRANA-G.

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## TIMELINE

Total: 2 days

Hard integration deadline: Friday

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## DAY-BY-DAY EXECUTION PLAN

### DAY 1 — EMS Signal Layer

Capture these signals inside EMS:

Signal	Meaning
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window_focus	working vs background
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keystroke_rate	real activity
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mouse_movement	engagement
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scroll_depth	content interaction
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task_tab_active	real task
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idle_time	inactivity
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app\_switch distraction  
browser\_hidden pretending

Deliverables:

- `ems_signals.js`
- `signal_spec.md`
- Console logs proving live capture

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DAY 2 — PRANA-E + Bucket Bridge

Build PRANA-E packets:

```
{  
  "employee_id": "...",  
  "task_id": "...",  
  "timestamp": "...",  
  "state": "WORKING",  
  "active_seconds": 5,  
  "idle_seconds": 0,  
  "away_seconds": 0,  
  "integrity_score": 0.91,  
  "raw_signals": {...}  
}
```

States:

WORKING

IDLE

AWAY

DISTRACTED

FAKING

Then send to:

POST /bucket/prana/ingest

Deliverables:

- prana\_e\_packet\_builder.js
- bucket\_bridge.js
- ems\_prana\_test.md
- Screenshot of packets in Bucket

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## LEARNING KIT

Video / Keywords

- “Idle detection web apps”
- “Browser activity tracking”
- “Workplace telemetry systems”

Reading

- Page Visibility API
- KeyboardEvent + MouseEvent best practices
- Ethical monitoring design

LLM Prompts

- “How to detect fake work using browser signals?”
- “How to distinguish real engagement from idle tab?”

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## DELIVERABLES (MANDATORY)

- ems\_signals.js
- prana\_e\_packet\_builder.js
- bucket\_bridge.js
- signal\_spec.md
- ems\_prana\_test.md
- Live EMS running with PRANA-E active
- 2–3 min demo video

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