

Sejal + Yash: HackaVerse Production Sprint (2-Day Integration Build)

Objective

Build a dynamic, intelligent Hackathon system that automates event management (via AI agents + N8N + MCP) and presents a beautiful, responsive, futuristic UI consistent with BHIV and Uni-Guru aesthetics.

Part A — Backend (Sejal)

(Already detailed above — MCP modular backend + N8N automations + BHIV Core/Bucket integration.)

Deliverables:

- API with /agent, /reward, /logs
- N8N automation flows
- Integration with Nisarg (Core) & Nipun (Bucket)
- Fully tested, deployed, documented backend
Deadline: Day 2 – EOD

Yash, you must ensure you are done with the frontend by the time Sejal completes her sprint to make your build production ready and host it on render/vercel/netlify etc. The below task will be shared with Sejal as well.

Part B — Frontend (Yash)

1. Design & UX Inspiration

Aesthetic Goal:

- Visual & emotional tone of blackholeinfiverse.com → cosmic, minimal, immersive
- Simplicity and educational warmth of uni-guru.in → clarity, accessibility

Core Design Language:

- Black + deep gradient backgrounds (BHIV)
- Clean white panels + soft shadows (Uni-Guru)
- Luminous accent colors (cyan, purple, or gold tones)
- Fluid motion & hover feedbacks (subtle transitions)
- Font pairing: Inter / Manrope / Satoshi

2. Pages & Components

a. Landing Page

- Title: “HackaVerse — A Universe of Builders”
- Subtext: “AI-driven hackathons connecting creators across campuses.”
- CTA: Join Hackathon | View Leaderboard
- Animated background: subtle gradient motion (BHIV style)
- Section scrolls into About, Categories, How it Works

b. Registration Page

- Team name, members, emails
- Category selector (AI/ML, Gaming, Web3, Open Innovation)
- Submits directly to /register (Backend API)
- Confirmation message + trigger to N8N automation for email

c. Dashboard (Post-login / Public View)

- Tabs:
 - Teams & Projects
 - Judging & Scores
 - AI Mentor Feed (HackaAgent)
- Display:
 - Project cards (name, category, submission link)
 - Live judge scores (synced from backend /reward endpoint)
 - Mentor chatbox (interacts with Hackathon AI agent)

d. Admin Panel

- Login (simple token-based or Supabase Auth)
- Manage judges, monitor team registrations, send reminders
- Visualize live data via BHIV Bucket sync

e. Results Page

- Leaderboard with rank, score, and project highlight
- Confetti animation + gradient celebration overlay

3. Frontend Stack

- Framework: React + Tailwind CSS (lightweight, modular)
- Optional: R3F background scene (minimal space animation)
- Backend Integration: REST via Axios → Sejal’s API routes
- Auth & Storage: Supabase (if needed)
- Deployment: Vercel / Netlify (auto-deploy from GitHub main)
- Automation Hook: N8N Webhook integration for trigger-based actions (submissions, reminders)

4. Collaboration Workflow

Component	Owner	Integration
Backend APIs (MCP-based)	Sejal	Expose via /api endpoints
Frontend Interface	Yash	Consume API routes
N8N Automations	Sejal	Trigger UI events → automation flows
BHIV Core (Nisarg)	Sejal	Backend reasoning
BHIV Bucket (Nipun)	Sejal	Data persistence
UI Deployment	Yash	Frontend hosting on Vercel
Testing	Both + Vinayak	End-to-end QA report

5. Deliverables (by End of Day 2)

Backend (Sejal):

- Modular AI Agent backend
- Integrated N8N workflows
- Connected to BHIV Core + Bucket
- Deployed with live URL

Frontend (Yash):

- React + Tailwind UI
- Pages: Landing, Registration, Dashboard, Results, Admin
- Themed to BHIV + Uni-Guru
- API integration live
- Deployed via Vercel

Common:

- Final integrated demo (screen recording 3–5 mins)
- README: setup + run instructions
- Reflection + next-steps doc

Design Values + References

Keep the Sanatan + Futuristic aesthetic blend alive —

A calm cosmic canvas with light that symbolizes Knowledge (Guru) and Creation (Hackathon).
Uni-guru.in

Use subtle glows, motion gradients, and symbolic geometries (mandala or orbit lines) to carry BHIV's soul through the design. <https://blackholeinfiverse.com>