

Gurukul Live Today!

VINAYAK — 15-MIN FULL SYSTEM TEST CHECKLIST

(This is the entire Gurukul pipeline tested in 15 minutes. No technical knowledge needed. You can ask Vedang, Nikhil, Karan to test as well. Just to see if responses are consistent.)

SECTION A — STARTUP CHECK (2 minutes)

1. Run Frontend (localhost:3000 or 5173)

✓ Page loads

✓ Login/Register works (even fake login is fine)

✓ Dashboard opens

2. Run Backend (localhost:8000 or as given)

- ✓ API server running
 - ✓ No startup errors
 - ✓ LM → TTS → TTV services reachable
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SECTION B — LESSON FLOW CHECK (5 minutes)

1. Open any subject → any lesson

- ✓ Lesson text loads
- ✓ Images load (if any)
- ✓ Audio button visible
- ✓ “Ask Doubt” visible
- ✓ MCQ available (if lesson has MCQs)

2. Press “Ask Doubt / Ask Question”

- ✓ Enter any question
- ✓ Response should come back

✓ **No errors**

✓ **Response should be meaningful**

3. Press “Play Audio / Vaani”

✓ **Audio plays**

✓ **No glitch**

✓ **Latency < 3 seconds**

4. Press “Generate Video / TTV”

✓ **Video loads.**

✓ **It may be simple — just check it loads.**

5. Try Next/Previous lesson

✓ **Smooth navigation**

✓ **No broken links**

**SECTION C — GURUKUL CORE CHECK
(4 minutes)**

1. Curriculum Generator

✓ Give class + subject → Generates curriculum outline

✓ No errors

2. MCQ Generator

✓ Ask “Generate 5 MCQs on Photosynthesis”

✓ MCQs + answers appear

3. Assessment Flow

✓ Attempt quiz

✓ Score is shown

✓ Score stored (backend logs)

SECTION D — LM / TTS / TTV PIPELINE CHECK (4 minutes)

Text → LM → TTS

Ask: “Explain gravity for class 5”

✓ LM responds

✓ Click Audio → speech plays

Text → LM → TTV

Ask: “Show video about water cycle”

✓ Video produced

✓ Plays without freeze

Language Test

Ask in Hindi:

“गुरुत्वाकर्षण समझाओ”

✓ Response in same language

✓ Audio in Hindi works

SECTION E — BUG REPORT (0 min, checklist auto-ready):

Vinayak only marks:

✓ Works

✗ **Broken**

⚠ **Slow**

❓ **Confusing UI**

Send list to: Me + Soham + Akash + Yashika + Noopur

Total time: 15 minutes exactly.

SYNC PLAN (ULTRA-SHORT)

Here is the exact communication + task flow, simple and unstoppable.

 **TEAM SYNC — 5-PERSON LOOP**

1. Vinayak → Finds Issues

He sends ONE message to group:

Format:

- ✓ Works
 - ✗ Bugs
 - ! Slow
 - ? Confusing
-

**2. Soham → Fixes LM, MCP, KSML,
Language Issues**

Tasks he handles:

- Wrong answers
- Language not working
- Audio mismatch
- Lesson answer unclear

- **Backend crashes from LM**
- **API integration issues**

Timeline: Fix inside 1–2 hours per issue.

3. Akash → Fixes API Wiring & Backend Routes

He handles:

- **Wrong endpoints**
- **Broken backend logic**
- **Missing request / response mapping**
- **Lesson → API not calling LM**
- **Doubt resolution flow**
- **Curriculum generator flow**

Timeline: Fix inside 1–2 hours per issue.

4. Noopur → Fixes TTV / Media Pipeline

Noopur handles:

- **Video not generating**
- **Video glitch**
- **Video not loading in frontend**
- **Wrong or empty output**
- **TTV slow (optimize TTV micro-model)**

Timeline: Fix inside 2–4 hours per issue.

5. Yashika → Infra + Docker + Yotta

Yashika Handles:

- **Model not running on GPU**
- **Container errors**
- **Build size issues**
- **Deploy on Yotta**

- **Logged token usage**
- **System health under load**

Timeline: Fix inside 1-1:30 hours per issue.

SYNC RHYTHM FOR 8 HOURS

Every 2 hours → 5-minute check-in

- **Vinayak posts new bugs**
 - **Others pick & fix**
 - **Confirm once resolved**
 - **No long meetings**
 - **Continue cycle**
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Final Goal

By Monday 6 PM → Gurukul working end-to-end → Demo ready.

Every part will be:

- **Working**
- **Stable**
- **Clean**
- **Fast**

Here is the clean solution plan for the auth issue—simple, fast, and guaranteed to work TODAY without breaking anything.

Short, clear, and fully actionable for Nikhil + Akash + Yashika.

AUTH FIX PLAN — FOR TODAY (Fastest + Zero Breakage)

OPTION WE WILL USE: Simple Email/Password Auth (No Google, No OAuth)

This is the fastest, most stable way to get Gurukul LIVE today.

We temporarily disable Google / OAuth / Firebase confusion and use a simple form-based login that stores users in the backend and issues a session token.

This removes:

Google OAuth redirect issues

Firebase key mismatch

Supabase row-level permission headaches

Vercel domain → Yotta domain CORS issues

And gives us:

full control

zero external dependency

no billing risk

works with any frontend + backend

deploy-ready TODAY

What The Auth System Will Be Today (Temporary for Demo)

1. User signs up with:

- name
- email
- password

2. Backend (Yotta) returns:

```
{ token: "JWT_TOKEN", user_id: "xyz123" }
```

3. Frontend saves token in localStorage.

4. All APIs send:

Authorization: Bearer <token>

5. No Google login required. No OAuth flows.

TASK BREAKDOWN (Who does what)

Nikhil — Frontend Changes (1.5 hours)

1. Disable Google Login UI

Hide/remove button.

2. Add simple form-based login:

- email
- password

3. Call the new backend route:

POST /auth/login

4. Save token in localStorage:

```
localStorage.setItem("gurukul_token", token)
```

5. For every API request:

Attach the Authorization header.

Output:

Working email/password login on Vercel.

Akash — Backend Auth API (2 hours)

Add 3 simple routes (FastAPI or Node):

POST /auth/register

- hash password (bcrypt)
- store in DB (Mongo/Qdrant/Simple JSON/SQLLite — doesn't matter today)

POST /auth/login

- verify password
- return JWT

GET /auth/me

- verify token
- return user object

JWT Payload:

```
{  
  "user_id": "...",  
  "role": "student"  
}
```

JWT Lifetime:

12 hours (demo-safe).

Output:

Working auth system on Yotta backend.

Yashika — Yotta Deploy + CORS Fix (1 hour)

1. Enable CORS on Backend:

Allow origin:

`https://<your-vercel-app>.vercel.app`

2. Expose new /auth endpoints.

3. Confirm login works with Postman.

Output:

Yotta backend ready for frontend auth.

The Result

By today evening you will have:

- ✓ Frontend on Vercel
- ✓ Backend on Yotta
- ✓ Simple, reliable login
- ✓ Token-based protection on all routes
- ✓ No OAuth headaches

And Gurukul is demo-ready.

Why NOT OAuth today?

Because it requires:

- Google Console App
- verified brand domain
- redirect URIs
- login consent screen approval
- HTTPS domain
- matching credentials across Yotta + Vercel

= 2–5 days of configuration (not happening today).

What we can do AFTER demo

Once stable, we can add:

- Google Login
- Class-level Access
- Teacher dashboards
- Role-based permissions
- Passwordless magic-links
- Federated identity

But today, we go with simple JWT-based login.