**1. Hook (30 sec)**

*“Have you ever been blocked because the backend API wasn’t ready? Or you needed mock data but spent hours writing dummy responses manually?”*  
*We’ve all been there. That’s exactly the problem we set out to solve.”*

**🟠 2. Problem (45 sec)**

“In any software project, API dependencies are a bottleneck — especially during early-stage development or integration testing.  
Frontend teams are blocked. QA teams can’t test. Journey builds fail.  
There’s no dynamic way to spin up realistic mock APIs quickly, without backend readiness.”

**🟢 3. Solution (1 min)**

“We built an AI-powered tool that takes any OpenAPI/Swagger spec as input, and automatically generates:

* Synthetic mock responses using schema
* A live mock API server with real routes
* A downloadable Postman collection  
  All of this in just 2 clicks, no backend needed!”

**🔵 4. Demo Flow (2 min)**

Let me show you how it works:

**Step 1**: Upload a Swagger file  
**Step 2**: Select an endpoint → See mock response generated using Faker  
**Step 3**: Click “Run Mock Server” → API live at localhost:5000  
**Step 4**: Test in browser/Postman  
**Step 5**: Download the Postman collection and share with frontend or testers

✅ All fake responses are schema-accurate, realistic, and ready-to-use.

**🟡 5. Tech Stack (30 sec)**

* 🧠 Python + Faker for synthetic response generation
* 📦 Streamlit for UI
* 🔌 Flask for live mock server
* 📜 YAML/JSON Swagger parsing with PyYAML
* 🧪 Optional: Local LLMs (Ollama) if needed in future

**🟤 6. Impact + Use Cases (45 sec)**

* 🚀 Frontend devs: Unblock UI builds
* 🧪 QA teams: Test flows before real backend is ready
* 🔄 DevOps: Integrate with CI pipelines for contract-first testing
* 🔍 PMs/Architects: Validate APIs and flows early

**🟢 7. What’s Next? (30 sec)**

* Support multiple endpoints at once
* Add auth/token simulation
* Integrate optional LLM for smart test data
* Deploy as internal utility or developer productivity booster

**🎯 Closing Line**

*“This isn’t just a demo — it’s a productivity booster. We’re solving real problems for real teams. Thank you!”*

**Title Slide**  
**GenAI-Powered API Mock Generator**

Hackathon Project | Team: [Your Name]

**Slide 1: The Problem**

* API backend not ready blocks frontend teams
* Manual mocking is slow and inconsistent
* Journey builds often fail due to missing APIs

**Slide 2: The Vision**

Generate realistic, schema-valid mock APIs from Swagger specs using AI

* Upload Swagger ✔
* Generate fake response ✔
* Launch live mock server ✔
* Export Postman Collection ✔

**Slide 3: Demo Flow**

1. Upload OpenAPI/Swagger file
2. Select endpoint (e.g., GET /users)
3. View generated mock response
4. Click "Run Mock Server" → Flask serves the endpoint
5. Test in browser/Postman
6. Export Postman collection

**Slide 4: Tech Stack**

* Python + Faker (mock data generation)
* Streamlit (UI)
* Flask (mock server)
* PyYAML / JSON parsing
* Optional: Ollama for offline LLM

**Slide 5: Use Cases & Benefits**

* 🚀 Frontend: Build without backend dependencies
* 🔢 QA: Test flows with mock data
* ✈️ DevOps: CI integration for contract-first dev
* 📈 Business: Faster release velocity, fewer blockers

**Slide 6: What’s Next?**

* Multi-endpoint mock support
* Token/auth simulation
* Smart data via LLMs
* Deploy internally as dev productivity tool

**Slide 7: Thank You!**

"Build faster. Test smarter. Launch sooner."

Let's demo!