

# **Al Portal - Web Surfing Studios**

# **Unified Visibility + Access Control for Al Usage Across WSS**

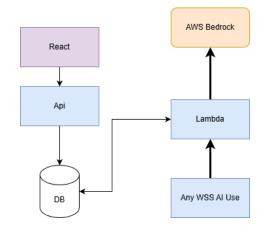
# The Problem

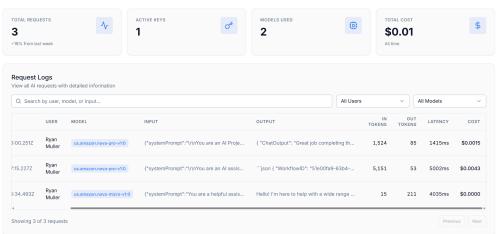
Multiple WSS apps call multiple AI models — but nothing shows who is using what, or how much spend each person drives.

#### Today we have:

- No unified location where access keys live
- No history of prompts or responses
- No way to link usage (and cost) back to a specific person

Because of that, we cannot measure usage, ROI, waste, or abuse.





## The Idea

# One Key Per User

Each developer receives a personal access key — simple to issue, simple to rotate, simple to revoke.

#### **Automatic Expiration**

Keys expire every 30 days by default — this enforces rotating discipline without manual policing.

#### Centralized Gateway

All Al traffic flows through the Portal. External apps call the Portal, and the Portal calls the Al model. This guarantees 100% visibility.

#### **Unified Usage Logs**

Every request is logged in one place — inputs, outputs, model ID, token counts, latency, and cost. Nothing is lost in random services.

#### **Full Transparency**

No private log modes. All members can view all requests. This teaches real-world cost management and audit discipline.

### Instant Offboarding

Disabling one key  $\bar{\text{d}}$  isables a user everywhere — no hunting down hidden config files.

The Portal turns Al usage from a black box into a governable resource.

# **Architecture**

#### React App + API

Front-end portal and REST API layer used for:

- Generating & managing access keys
- Viewing usage logs
- Managing users and revocation

#### **AWS Lambda Gateway**

Serverless execution layer that:

- Receives AI requests from WSS systems
- Validates keys + permissions
- Calls AWS Bedrock models
- Logs full request/response into the DB

# **Strategic Goal**

The AI Portal gives WSS a scalable foundation for AI usage at any size. As more systems, bots, and developers start calling models, we don't have to worry about governance falling apart — because identity, access, and cost are all controlled and visible in one place. This lets WSS grow AI usage confidently, without losing governance or control..

## **Future Ideas**

- Automated cost alerts and quotas per user or per team
- Anomaly detection to spot sudden spikes or abuse
- Model performance comparisons and ranking
- Usage-based billing or chargeback for project budgets
- Quality-of-output scoring to evaluate which prompts or models perform best
- Automatic detection of repeated prompt patterns that can be optimized into reusable templates
- Per-model or per-domain access control (e.g. only PMs can call certain models)
- Key rotation automation every 30 days without manual admin
- Latency / reliability benchmarking across providers to identify best-fit models
- Centralized model version tracking for historic reproducibility and audit

