

# ■# Alumni Portal: Complete Technical Verification and AWS Readiness Report

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Project path: C:/xampp/htdocs/alumni\_portal

## 1. Executive Status

- \* Local web stack: Apache running from XAMPP
- \* Local PostgreSQL: running and accepting connections on 127.0.0.1:5432
- \* DB smoke check: db\_test.php passes
- \* API syntax check: pass across all PHP files
- \* API runtime GET sweep: 0 runtime fatals across 77 endpoints
- \* AWS IaC scaffold: present (terraform/, deployment/, Dockerfile, GitHub workflow)
- \* Local fallback mode: configured and documented

## 2. Critical Fixes Applied

### 2.1 Legacy Auth/DB compatibility fixes

The following endpoints were upgraded from legacy patterns  
(new Auth(), authenticate(), Database->connect())  
to the active middleware/DB contract  
(new Auth(\$db), validateRequest(), getConnection()):

- \* api/apply\_job.php
- \* api/create\_event.php
- \* api/get\_events.php
- \* api/pin\_post.php
- \* api/unpin\_post.php

### 2.2 Functional bug fixes

- \* api/get\_messages.php
- Fixed typo: file\_get\_content() -> file\_get\_contents()
- \* api/search\_directory.php
- Fixed undefined role context (\$user was not defined)
- Added current-user role lookup and admin privacy behavior
- \* models/Event.php
- Aligned model queries/inserts with actual DB schema:
- creator\_user\_id (not creator\_id)
- start\_datetime/end\_datetime (not event\_date/event\_time)
- banner\_image\_url, location\_type, location\_address, virtual\_link
- Added compatibility aliases in select output (event\_date, event\_time, location, banner\_url)

### 2.3 Test tooling fixes

- \* test\_all\_features.ps1
- Fixed URL parsing bug caused by unescaped &
- \* Added local verification script: verify\_local.ps1
- DB check
- Public endpoint check
- Full API fatal sweep
- Optional authenticated check using TEST\_EMAIL/TEST\_PASSWORD

## 3. Verification Evidence

### 3.1 Database and endpoint checks

- \* C:/xampp/php/php.exe db\_test.php -> Connected to the alumni\_portal successfully
- \* GET /api/get\_active\_streams.php -> 200
- \* GET /api/get\_jobs.php -> 200
- \* GET /api/get\_events.php -> 200

### 3.2 Full API sweep snapshot

Saved to: docs/verification\_latest.json

#### Summary:

- \* Total APIs checked: 77
- \* Runtime fatal count: 0
- \* Status distribution without auth token:
  - 200: 11
  - 401: 62
  - 400: 4

This distribution is expected for authenticated endpoints called without bearer tokens.

## 4. PostgreSQL Auto-Start (Local Fallback)

Because Windows service registration was blocked in non-elevated shell,  
a user-level startup fallback was configured:

- \* Startup script:  
C:/Users/shiro/AppData/Roaming/Microsoft/Windows/Start Menu/Programs/Startup/start\_xampp\_postgres.bat
- \* Behavior:  
checks 127.0.0.1:5432 with pg\_isready and starts PostgreSQL only when down

Manual start command:

```
C:\xampp\pgsql\pgsql\bin\pg_ctl.exe -D C:\xampp\pgsql\data start -l C:\xampp\pgsql\logfile
```

## 5. AWS Readiness Review

### 5.1 Ready

- \* Terraform modules exist for VPC/ALB/ECS/RDS/S3/CloudFront
- \* Deploy scripts exist (deployment/deploy-aws.sh, deployment/migrate-to-rds.sh)
- \* Docker files exist (Dockerfile, docker-compose.yml)
- \* Environment templates exist (.env.example, .env.production)

### 5.2 Preflight gaps before deploy

- \* Ensure tools are available in PATH on deployment shell:
  - terraform
  - docker
  - composer
- \* Terraform backend S3 bucket must exist or backend config must be updated:
  - alumni-portal-terraform-state
- \* Confirm production domain and ACM certificate before enabling HTTPS listener.

## 6. Local-to-AWS Working Strategy

1. Keep local testing on XAMPP + PostgreSQL fallback.
2. Run local verification:  
`powershell -ExecutionPolicy Bypass -File .\verify_local.ps1`
3. Run auth verification by setting TEST\_EMAIL and TEST\_PASSWORD env vars.
4. Deploy with Terraform and deployment scripts from AWS-capable shell.

## 7. Final Assessment

The project is now stable for local testing with PostgreSQL fallback,  
and the previously crashing APIs were fixed. The repository is structurally  
AWS-ready, with deployment depending on machine/tooling prerequisites and  
final cloud configuration (backend bucket, domain, SSL).