# Flask UI Access Instructions

Date: June 3, 2025 – 15:00 PDT

## Overview

This document provides instructions for accessing and using the Flask UI for GBP14-15 components. The UI provides access to task routing, CLI hooks, and metrics visualization.

## Local Deployment

### Prerequisites

1. Python 3.13.3
2. Redis server running locally
3. Environment variables set:

* export GITBRIDGE\_ENV=development  
  export REDIS\_HOST=localhost  
  export REDIS\_PORT=6379  
  export FLASK\_SECRET\_KEY=your\_secret\_key

### Setup Steps

1. Install dependencies:

* pip install -r requirements-webhook.txt

1. Start Redis server (if not running):

* redis-server

1. Launch Flask server:

* python -m scripts.run\_server.py

1. Access UI:
   * URL: http://localhost:8888
   * Default credentials:
     + Username: admin
     + Password: gbp\_admin\_2025

## UI Features

### 1. Task Management

* **Route**: /tasks
* **Features**:
  + View task queue
  + Monitor task status
  + View task details
  + Cancel tasks
  + Retry failed tasks

### 2. Agent Management

* **Route**: /agents
* **Features**:
  + Register new agents
  + View agent status
  + Monitor agent capacity
  + View agent metrics

### 3. Vote Sequence

* **Route**: /votes
* **Features**:
  + View vote history
  + Monitor consensus status
  + View vote distribution
  + Export vote data

### 4. Metrics Dashboard

* **Route**: /metrics
* **Features**:
  + Real-time queue depth
  + Latency metrics
  + Error rates
  + Resource utilization
  + Performance graphs

### 5. CLI Integration

* **Route**: /cli
* **Features**:
  + Web-based CLI interface
  + Command history
  + Auto-completion
  + Help documentation

## API Documentation

### Task API

POST /api/v1/tasks  
- Create new task  
- Requires authentication  
- Returns task ID  
  
GET /api/v1/tasks/{task\_id}  
- Get task status  
- Requires authentication  
- Returns task details

### Agent API

POST /api/v1/agents  
- Register new agent  
- Requires authentication  
- Returns agent ID  
  
GET /api/v1/agents/{agent\_id}  
- Get agent status  
- Requires authentication  
- Returns agent details

### Metrics API

GET /api/v1/metrics  
- Get system metrics  
- Requires authentication  
- Returns metrics data

## Authentication

### Token-based Authentication

1. Get token:

* curl -X POST http://localhost:8888/api/v1/auth/token \  
   -H "Content-Type: application/json" \  
   -d '{"username": "admin", "password": "gbp\_admin\_2025"}'

1. Use token:

* curl http://localhost:8888/api/v1/tasks \  
   -H "Authorization: Bearer {token}"

### Session Management

* Session timeout: 1 hour
* Max concurrent sessions: 5
* Auto-refresh enabled

## Troubleshooting

### Common Issues

1. Connection Refused

* # Check Redis status  
  redis-cli ping  
    
  # Check Flask server  
  ps aux | grep run\_server.py

1. Authentication Failed

* # Reset admin password  
  python scripts/reset\_admin.py

1. Metrics Not Loading

* # Clear metrics cache  
  redis-cli del metrics:\*

## Security Notes

1. Change default credentials immediately
2. Use HTTPS in production
3. Enable rate limiting
4. Monitor access logs

## Support

For technical support: - Email: support@gitbridge.erudite.com - Slack: #gbp-support - Documentation: http://localhost:8888/docs