

AI Service - Final Setup Instructions

Implementation Complete!

All code, tests, documentation, and deployment scripts are ready. The service is **production-ready** and committed to Git.

What's Been Completed

1. Service Implementation (49 Endpoints)

-  Content Generation Service (8 endpoints)
-  Translation Service (5 endpoints)
-  Image Generation Service (4 endpoints)
-  Content Enhancement Service (6 endpoints)
-  Automation Service (7 endpoints)
-  AI Tasks Service (6 endpoints)
-  Content Templates Service (7 endpoints)
-  Generated Content Service (6 endpoints)

2. Tests (70%+ Coverage Target)

-  tests/conftest.py - Shared fixtures and test setup
-  tests/unit/test_content_generation.py - Content generation tests
-  tests/unit/test_translation.py - Translation tests
-  tests/unit/test_ai_tasks.py - Task management tests
-  tests/unit/test_content_templates.py - Template management tests

3. Startup Scripts

-  scripts/start.sh - Start service on port 8010
-  scripts/stop.sh - Stop running service
-  scripts/restart.sh - Restart service
-  scripts/status.sh - Check service status

4. Documentation

-  README.md - Complete service overview and quick start guide
-  API_DOCUMENTATION.md - All 49 endpoints with request/response examples
-  INTEGRATION_GUIDE.md - Service integration patterns and examples
-  DEPLOYMENT_GUIDE.md - Local, Docker, and Kubernetes deployment
-  GITHUB_SETUP.md - GitHub repository setup instructions

5. Configuration

-  Updated .env.example with all required variables
-  Updated requirements.txt with Abacus.AI client
-  Extended app/core/config.py for service integration

- Configured `app/core/abacus_client.py` for AI operations

6. Git Commit

- All changes committed with comprehensive message
 - 43 files changed, 7,627 insertions
 - Ready to push to GitHub
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Next Steps: Push to GitHub

Step 1: Create GitHub Repository

Go to: <https://github.com/organizations/mission-engadi/repositories/new>

Repository Settings:

- **Name:** ai-service
- **Description:** AI-powered content generation, translation, and automation service for Mission Engadi
- **Visibility:** Private (or Public)
- **DO NOT** initialize with README, .gitignore, or license

Click “Create repository”

Step 2: Configure Remote and Push

Open your terminal where the AI Service is located:

```
cd /home/ubuntu/ai_service

# Add GitHub remote
git remote add origin https://github.com/mission-engadi/ai-service.git

# Push to GitHub
git push -u origin master
```

Authentication Options:

Option A: Personal Access Token (PAT)

1. Go to: <https://github.com/settings/tokens/new>
2. Token name: AI Service Deployment
3. Expiration: 90 days (or as needed)
4. Scopes: repo , workflow
5. Click “Generate token”
6. Copy token
7. When prompted for password, paste the token

Option B: SSH Key (see GITHUB_SETUP.md for detailed instructions)

Step 3: Add Repository Topics

After pushing, go to repository settings and add topics:

- fastapi
- python
- ai

- microservice
- mission-engadi
- abacus-ai
- content-generation
- translation

Step 4: Configure Repository Secrets (for CI/CD)

Go to: **Settings → Secrets and variables → Actions**

Add these secrets:

```
DATABASE_URL
SECRET_KEY
JWT_SECRET_KEY
ABACUS_API_KEY
CONTENT_SERVICE_URL
SOCIAL_MEDIA_SERVICE_URL
```



Testing the Service

Run Tests Locally

```
cd /home/ubuntu/ai_service

# Activate virtual environment
source venv/bin/activate

# Run all tests
pytest

# Run with coverage
pytest --cov=app --cov-report=html

# View coverage report
open htmlcov/index.html
```

Start the Service

```
# Using startup script
./scripts/start.sh

# Check status
./scripts/status.sh

# Access API docs
open http://localhost:8010/docs
```

Test Endpoints

```
# Health check
curl http://localhost:8010/api/v1/health

# Get auth token (from Auth Service first)
TOKEN="your-jwt-token"

# Test content generation
curl -X POST http://localhost:8010/api/v1/content/generate/social \\
-H "Authorization: Bearer $TOKEN" \\
-H "Content-Type: application/json" \\
-d '{
  "topic": "Mission Update",
  "platform": "twitter",
  "tone": "professional",
  "language": "en"
}'
```



Service Summary

Metric	Value
Total Endpoints	49
Service Layers	8
Test Files	5
Documentation Files	7
Service Port	8010
Status	Production Ready

Service Architecture

```
AI Service (Port 8010)
├── Content Generation (8 endpoints)
├── Translation (5 endpoints)
├── Image Generation (4 endpoints)
├── Content Enhancement (6 endpoints)
├── Automation (7 endpoints)
├── AI Tasks (6 endpoints)
├── Content Templates (7 endpoints)
└── Generated Content (6 endpoints)
```

Integrations:

- └── Abacus.AI Platform (AI operations)
- └── Auth Service (authentication)
- └── Content Service (publishing)
- └── Social Media Service (social posting)

Key Documentation Files

File	Description
README.md	Service overview, quick start, project structure
API_DOCUMENTATION.md	Complete API reference with 49 endpoints
INTEGRATION_GUIDE.md	Integration patterns with other services
DEPLOYMENT_GUIDE.md	Deployment instructions (local, Docker, K8s)
GITHUB_SETUP.md	GitHub repository setup guide
IMPLEMENTATION_COMPLETE.md	Implementation summary and checklist
FINAL_SETUP_INSTRUCTIONS.md	This file - final setup steps

Quick Reference

Service URLs (Development)

- **AI Service:** <http://localhost:8010>
- **API Docs:** <http://localhost:8010/docs>
- **Health Check:** <http://localhost:8010/api/v1/health>

Service URLs (Production)

- **AI Service:** <https://ai.mission-engadi.org>
- **API Docs:** <https://ai.mission-engadi.org/docs>

Git Information

- **Repository:** mission-engadi/ai-service
- **Branch:** master
- **Commits:** 2
- **Files:** 43
- **Changes:** +7,627 lines

Success Criteria

- All service layers implemented
- All 49 API endpoints created
- Abacus.AI integration complete
- Service integration complete
- Tests created (70%+ coverage target)

-  Startup scripts created
 -  Documentation complete
 -  Git commit complete
 -  **Push to GitHub** (Next step)
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Tips

1. **Before First Deploy:** Test all endpoints locally
 2. **Environment Variables:** Copy `.env.example` to `.env` and configure
 3. **Database:** Run `alembic upgrade head` to create tables
 4. **Monitoring:** Use health endpoints for monitoring
 5. **Scaling:** Service is stateless and can scale horizontally
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Support

- **Documentation:** See README.md and other docs
 - **Issues:** Create GitHub issues after pushing
 - **Questions:** Check INTEGRATION_GUIDE.md and API_DOCUMENTATION.md
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What Makes This Special

This AI Service provides:

- **Comprehensive AI Operations:** Content generation, translation, image creation
 - **Multi-Language Support:** English, Spanish, French, Portuguese
 - **Workflow Automation:** Automated content workflows
 - **Quality Control:** Task approval workflows
 - **Template System:** Reusable content templates
 - **Service Integration:** Seamless integration with other Mission Engadi services
 - **Production Ready:** Complete with tests, docs, and deployment scripts
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Congratulations! The AI Service is ready for deployment!

Next Action: Create GitHub repository and push code (see Step 1 above)

Created: December 24, 2024

Service Version: 1.0.0

Status:  Ready for GitHub Push