

# AI Service - Final Setup Instructions

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## Implementation Complete!

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

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## ✓ What's Been Completed

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### 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

## 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
```

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## 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	<div><div></div> Production Ready</div>

## 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)

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## Key Documentation Files

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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

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## Quick Reference

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### 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
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## Success Criteria

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- ✓ 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

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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

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- **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

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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)

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**Created:** December 24, 2024

**Service Version:** 1.0.0

**Status:** ✓ Ready for GitHub Push