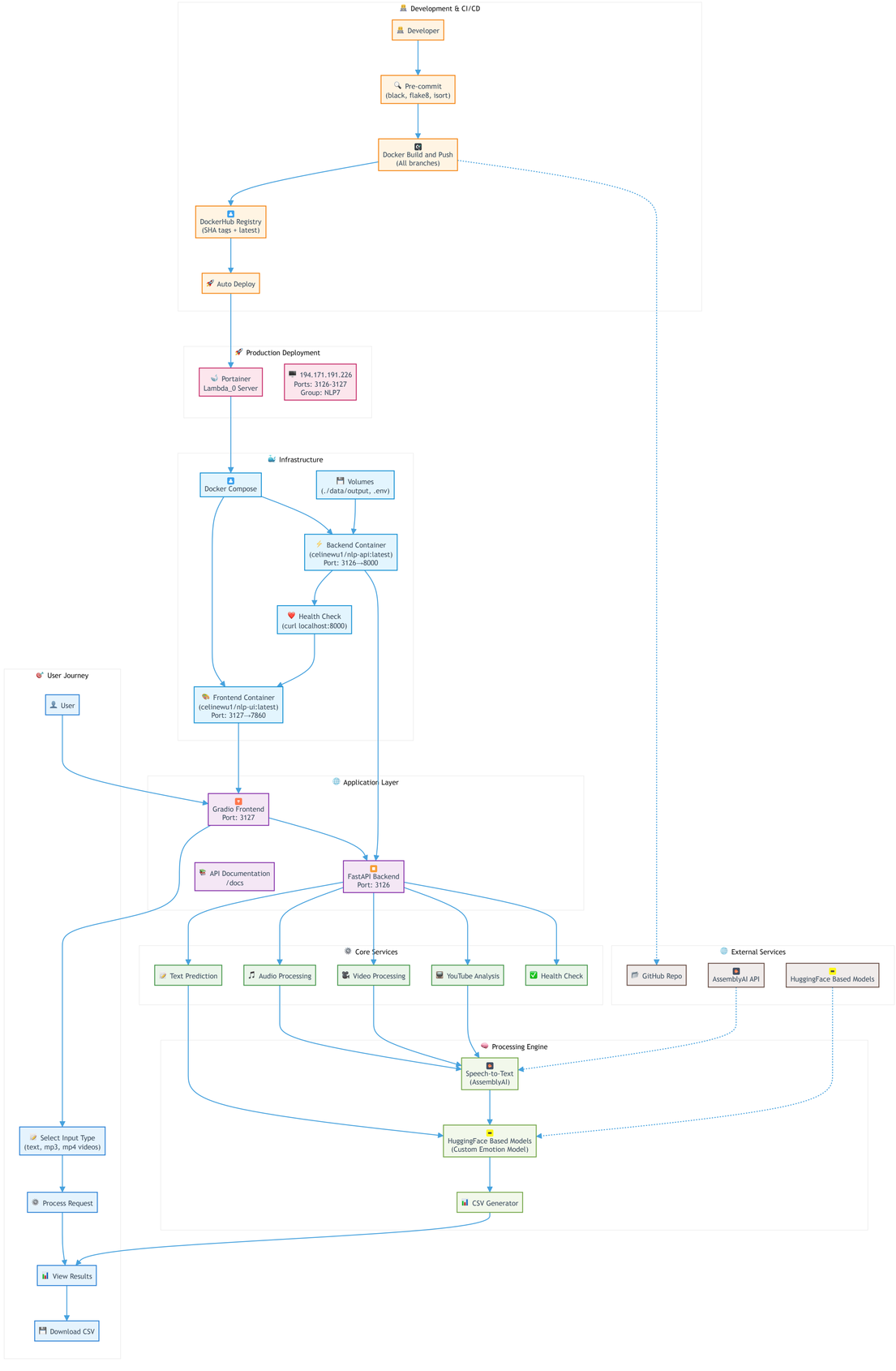
🚀 Emotion API Local Deployment

Docker deployment with FastAPI backend + Gradio frontend



📖 How to Read This Diagram

🔗 **Solid Arrows:**	Direct data flow or process execution
Dotted Arrows:	External service dependencies or triggers
📦 **Colored Sections:**	Different layers of the architecture (Dev, User, App, Services, etc.)
🏷️ **Service Logos:**	Actual tools/platforms used with their official logos
❤️ **Health Check:**	Frontend waits for backend health before starting
🐋 **Containers:**	Dockerized services with specific image tags and port mappings

🛠️ Tools & Technologies

FastAPI	High-performance Python web framework for REST endpoints
Gradio	Python library for building ML web interfaces
Docker	Containerization platform for consistent deployments
AssemblyAI	Speech-to-text API for audio transcription
HuggingFace	ML model hub for transformers and custom emotion models
GitHub Actions	CI/CD automation platform for continuous integration
Portainer	Docker container management UI for production deployment