**LongiTumorSense Architecture**

├── **Frontend (Streamlit/Flask)**

│ ├── User Authentication

│ ├── MRI Upload Interface

│ ├── Results Visualization

│ └── Admin Panel

├── **Backend Services**

│ ├── Tumor Detection Module

│ ├── Segmentation Module

│ ├── Progression Analysis

│ └── Clinical Prediction

├── **Machine Learning Models**

│ ├── nnUNet (Segmentation)

│ ├── DenseNet (Classification)

│ └── Survival Prediction Model

└─**─ Database**

├── User Credentials

├── MRI Metadata

└── Analysis Results

**LongiTumorSense Architecture**

├── **Google Colab (Model Training)**

│ ├── Data Preparation

│ ├── Model Training (nnUNet, DenseNet, Survival Model)

│ └── Model Export

**└── VS Code (System Implementation**)

├── Flask Backend

│ ├── Authentication

│ ├── MRI Processing

│ └── API Endpoints

└── **Streamlit Frontend**

├── User Interface

├── Visualization

└── Admin Panel