Technical Architecture:

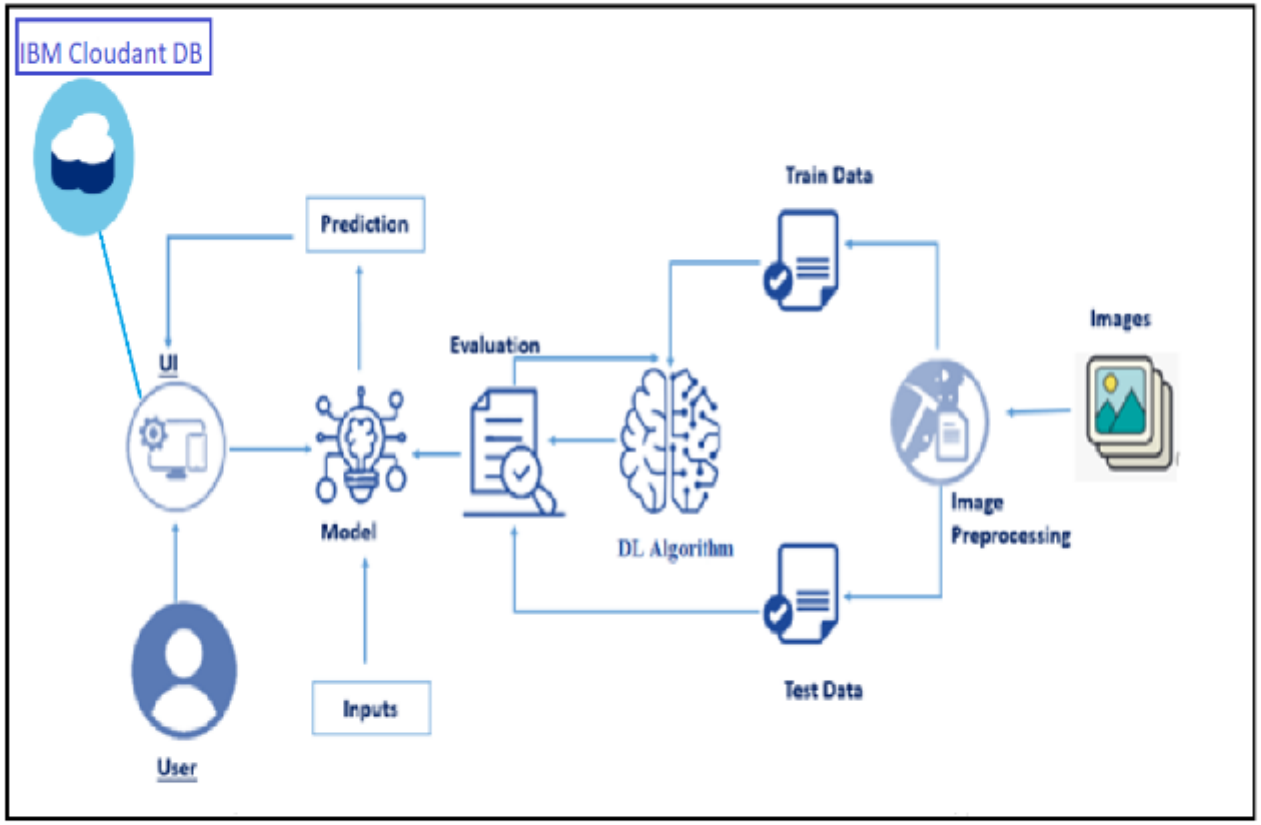

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS, JavaScript,Python
2	Application Logic-1	Data Preprocessing	
3.	Application Logic-2	CNN Model Creating	
4.	Application Logic-3	Web Application(UI)	
5.	Database	Images(Jpeg,PNG,Jpg,etc..,)	Keras, Tensorflow,Numpy(Importing Essential Libraries)
6.	File Storage	File Storage requirements	IBM Cloud Storage
7	External API	Keras	Image processing API
8.	Deep Learning Model	Inception v3Architecture	network
9.	Infrastructure (Server / Cloud)	Application Deployment on Webserver	

Pretrained convolutional neural model that is 18 layers deep.
Flask- A python WSGI HTTP server

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Flask	Werkzeug,Jinja2,Sinatra Rubyframework
2	Security Implementations	CSRF protection,secure flag for cookies	Flask-WTF, SESSION_COOKIE_SECURE
3	Scalable Architecture	Micro Services	Micro web application framework by Flask
4.	Availability	Development server and fast debugger Support for unit testing RESTful request Dispatching Jinja2 template Unicode	Werkzeug,Jinja2,Sinatra Rubyframework
5.	Performance	ORM-agnostic,web framework,WSGI 1.0 complaint,HTTP request handling functionality high flexibility	SQLAlchemy,extensions,Werkzeug,Jinja2,Sinatra Rubyframework

References:

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/