

OFFLINE EVALUATION PHASE



Vietnamese sentence
preprocessing

Trained
model



Caption
descriptions

Matching

offline
performance
assessment

Image
descriptions

(a)

TRAINING PHASE



Human
Parsing
Network



Vietnamese sentence
preprocessing

Feature extraction
& segmentation

ViTAA
Network

Global
branch

Local
branch

Bi-LSTM

(b)

ONLINE EVALUATION PHASE



Web-based

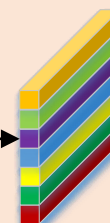
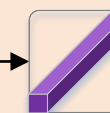
Query collecting

Results displaying & retrieval
performance assessment

Vietnamese sentence
preprocessing

Trained
model

Image set



Matching

(c)