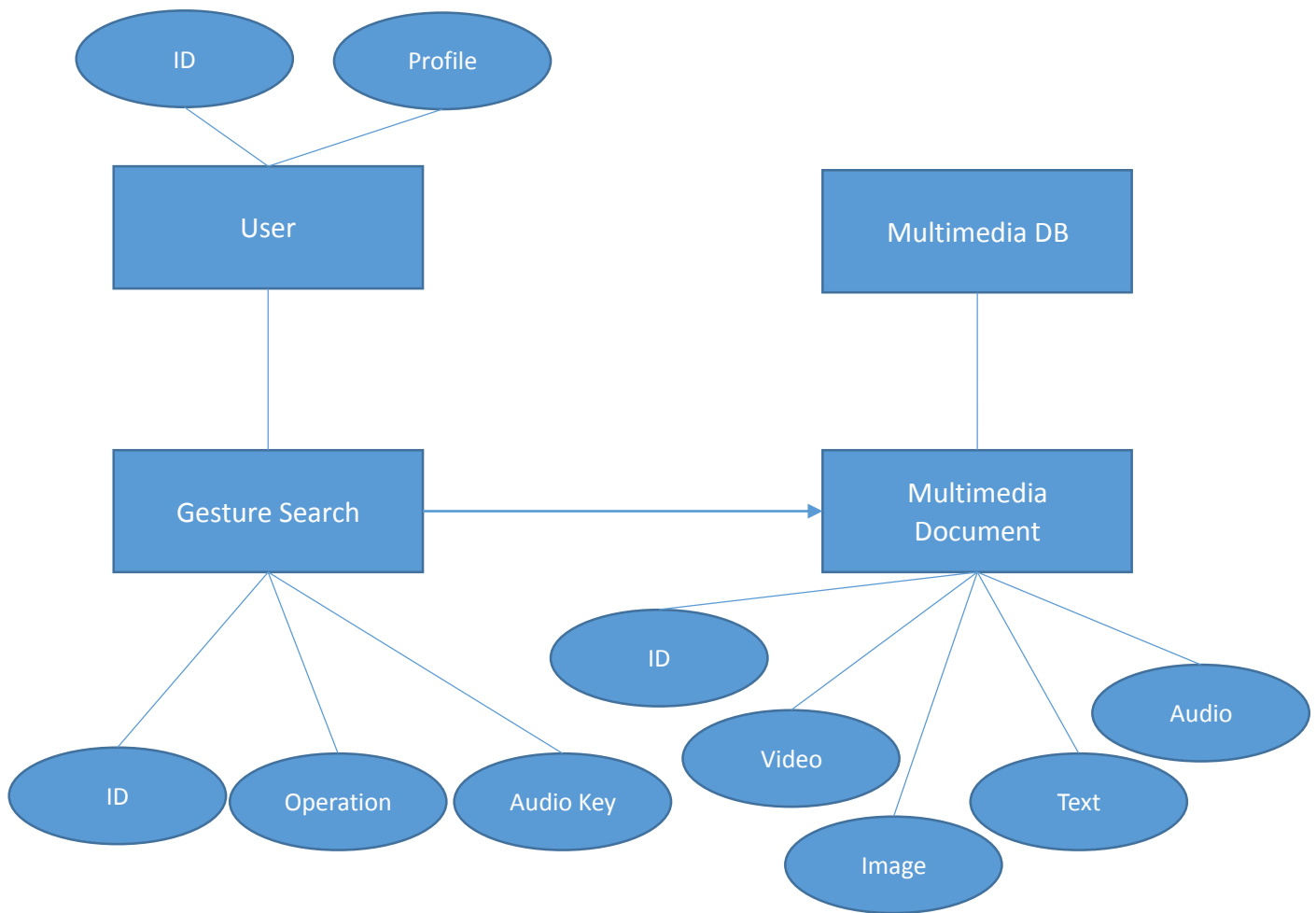


CS2310 Multimedia Software Engineering

Exercise 4

Junhui Chen



MFD:

1. $\{\text{Gesture Search ID, Gesture Operation, Audio Key}\}_{g1(t1)} \rightarrow \{\text{Document ID, Video, Audio, Image, Text}\}_{g2(t2)}$
2. $\{\text{Gesture Search ID, Gesture Operation, Audio Key}\}_{g1(t1)} \rightarrow \{\text{User ID, Profile}\}_{g3(t3)}$

IC Name	Gesture Search
Description	Generate a query based on gesture and audio key
Interaction Pattern	By myself with Interaction
My task	Recognize a gesture and takes in an audio key
Time Critical Condition	None
Name of Other IC	Multimedia DB
Message to Other IC	Search query
Other IC's Task	Ack of reception and prepare the result
Card	1 of 2

IC Name	Gesture Search
Description	Display the document received from Multimedia DB
Interaction Pattern	By myself with no Interaction
My task	Display the content of the document
Time Critical Condition	None
Name of Other IC	None
Message to Other IC	None
Other IC's Task	None
Card	2 of 2

IC Name	Multimedia DB
Description	Execute a search based on query received
Interaction Pattern	Mixed
My task	Locate the requested document and deliver to User
Time Critical Condition	None
Name of Other IC	Gesture Search
Message to Other IC	The requested document
Other IC's Task	Ack of reception
Card	1 of 1

IC Name	User
Description	Request document using gestures and audio key
Interaction Pattern	Mixed
My task	Make a gesture and select an audio key
Time Critical Condition	None
Name of Other IC	Gesture Search
Message to Other IC	Gesture and audio key
Other IC's Task	Ack of reception
Card	1 of 1