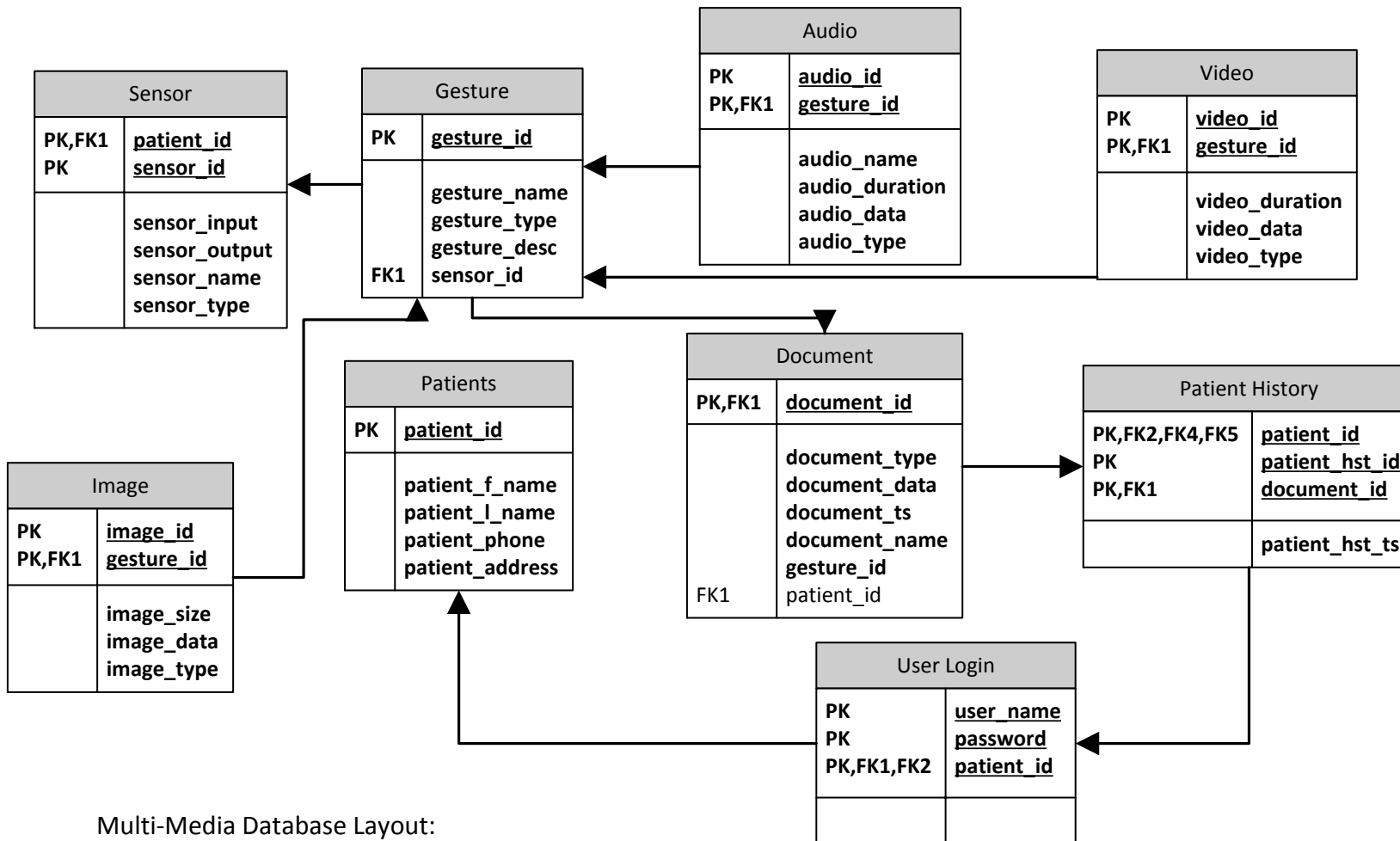


Multi-Media Health Care System Database

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Exercise 4



Multi-Media Database Layout:

- A Patient ID is identified according system credentials
- Sensor input determines a particular gesture type
- There are multiple audio, video and images gestures
- Each gesture has an associated document
- Patients can generate multiple documents for each gesture type
- A gesture document can be generated by multiple patients
- A patient history record is created according to the Patient ID and the document gesture

Multi-Media Functional Dependency

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Exercise 4

User Login = {user name, password} -> {patient}

Secure Access(t1)

Authentication(t2)

Sensor = {sensor} -> {gesture}

Input processor(t1)

Biometric software(t2)

Gesture = {gesture} -> {video, audio, image}

Biometric software(t1)

Multi-media software(t2)

Document = {document} -> {gesture}

Data processor(t1)

Biometric software(t2)

Patient History = {history} -> {patient, document}

Insert query(t1)

History retrieval query(t2)

IC Card	IC Name: Multi-Media Database
Description: Generates document from patient gesture Interaction Pattern: 	
Mixed	
My Task: Accept patient gesture and retrieve corresponding document Time Critical Condition: 10 seconds Name of Other IC: gesture_sensors Message to Other IC: Process Patient Gesture Other IC's Task: Process document for type of gesture Card 1of 4 (If necessary please use several IC cards to describe an IC)	

IC Card	IC Name: Multi-Media Database
Description: Generate document for correspond gesture Interaction Pattern: 	
Mixed	
My Task: Accept patient gesture and retrieve corresponding document Time Critical Condition: 2 seconds Name of Other IC: gesture_document Message to Other IC: store document for patient gesture type Other IC's Task: generate document for patient gesture Card 2of 4 (If necessary please use several IC cards to describe an IC)	

IC Card	IC Name: Multi-Media Database
Description: Generate document from patient gesture Interaction Pattern: 	
Mixed	
My Task: Accept patient gesture and retrieve corresponding document Time Critical Condition: 2 seconds Name of Other IC: patient Message to Other IC: generate document via gesture Other IC's Task: use credentials to access system and make a gesture Card 3of 4 (If necessary please use several IC cards to describe an IC)	

IC Card	IC Name: Multi-Media Database
Description: Generate document per patient gesture Interaction Pattern: 	
Mixed	
My Task: Accept patient gesture and retrieve corresponding document Time Critical Condition: 2 seconds Name of Other IC: history_report Message to Other IC: retrieve patient gesture history report Other IC's Task: generate report of gesture documents for patient Card 4of 4 (If necessary please use several IC cards to describe an IC)	

IC Card	IC Name: image_gesture_recognizer
Description: Senor that processes images for system input Interaction Pattern: 	
By Myself with Interaction	
My Task: Retrieve document from image gesture Time Critical Condition: 2 seconds Name of Other IC: Document retrieval query Message to Other IC: Retrieve document with gesture id and patient id Other IC's Task: Generate document for patient per image gesture Card 1of 1 (If necessary please use several IC cards to describe an IC)	

IC Card	IC Name: video_gesture_recognizer
Description: Video gesture sensor to retrieve patient document Interaction Pattern: 	
By Myself with Interaction	
My Task: Retrieve video gesture document for patient Time Critical Condition: 2 seconds Name of Other IC: Document Retrieval Query Message to Other IC: Retrieve document with gesture id and patient id Other IC's Task: Generate video document per gesture document Card 1of 1 (If necessary please use several IC cards to describe an IC)	

IC Card	IC Name: audio_gesture_recognizer
Description: Audio senor that process video input Interaction Pattern: 	
By Myself with Interaction	
My Task: Retrieve document with audio gesture Time Critical Condition: 2 seconds Name of Other IC: Document retrieval query Message to Other IC: Retrieve document with gesture id and patient id Other IC's Task: Generate document per audio gesture Card 1of 1 (If necessary please use several IC cards to describe an IC)	

