

CSC 540 - Fall '16

The Design & Implementation of a Personal Health Management (PHM) Database Application

Deliverable 1

1. Team Members:

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2. List of Entities and Relationship:

Entity Name	Attributes	Entity Typde(Strong/Weak)
PATIENT	<u>ssn</u> , name, date_of_birth, address, gender	
WELL PATIENT (IS A PATIENT)	<u>ssn_primary_supporter</u> , <u>ssn_secondary_supporter</u>	
SICK PATIENT (IS A PATIENT)	<u>ssn_primary_supporter</u> , <u>ssn_secondary_supporter</u>	
HEALTH SUPPORTER	<u>ssn</u> , address, phone_number	WEAK
DISEASE	<u>disease_id</u> , disease_name, metric_name	
HEALTH OBSERVATION	<u>disease_id</u>	
ALERT	<u>alert_id</u> , disease_id, alert_type, status, timestamp	

Relation Name	Participating Entities	Attributes of the relation(if any)	Relationship type
RECOMMENDATION ON	PATIENT, DISEASE	frequency, recommended_by_ssn, recommended_upper_limit, recommended_lower_limit	Binary
SUPPORTED BY	WELL PATIENT, HEALTH SUPPORTER	<u>date_of_authorization,status</u>	Binary
SUPPORTED BY	SICK PATIENT, HEALTH SUPPORTER	<u>date_of_authorization,status</u>	Binary
HAS OBSERVATIONS	PATIENT, OBSERVATION	observed_value, limit_violation_flag, time_of_recording, <u>time_of_observation</u>	Binary
GENERATE ALERTS	PATIENT, ALERT		Binary

3. We have read the project description and asked all the doubts for clarification.