

Project Milestone 1 Report

1. Names and Unity IDs of team members:

Akshay Nayak - anayakv
Priyaranjan Behara - pbehera
Vivekanand Ette - vette
Samrudhi Sharma - ssharm17

2. List of Entity and Relationship Types that you identify in the project description. For each relationship type, you should state the arity of the relationship e.g. if it is binary, ternary, etc. Relationships should include any hierarchical relationships (subtypes) that you identify. There is no need for verbose text, just a categorized listing of these is fine.

Entities:

Entity	Attribute
People	<u>UID</u> , Name, Address
Health Supporter	Contact
Patient	DOB, Gender
Well Patient	
Sick Patient	
Diseases	Name, Description
Recommendation	<u>ID</u> , Frequency, Threshold
Limits	<u>Limit ID</u> , Lower Limit, Upper Limit
Metrics (Weak Entity)	<u>Name</u> , Type
Observation Specifications	<u>Unique name</u> , Description
Observations	<u>Observation ID</u> , Observation Value, Observed Time, Recorded Time
Metric Type Values	<u>ID</u> , Value
Alerts	<u>Alert ID</u> , Alert Type, Action Taken
Frequency	<u>Frequency ID</u> , Duration, Number Of

	Times
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Relationships:

1. ISA relationships:

Relationship	Relationship Type	Parent Entity	Entity 1	Entity 2
ISA	Hierarchical	Patient	Well Patient	Sick Patient
ISA	Hierarchical	People	Health Supporter	Patient

2. Binary relationships:

The participation constraints in the relations are partial(zero or more) unless otherwise stated.

Relationship	Relationship Attribute	Relationship Type (Key Constraints)	Entity 1 (With participation constraints)	Entity 2 (With participation constraints)
Assigned	Authorization date, primary/secondary	N - N	Health Supporter	Patient
for	N/A	N - 1	Observation	Patient
includes	N/A	N - 1	Recommendation (at most once)	Observation specification
for	N/A	N - 1	Limits	Metrics (exactly once)
has_minor	N/A	N - N	Well Patient	Disease
has_major	N/A	N - N	Sick(once or more)	Disease
has	N/A	N - N	Metrics	Metric Type Values
in	N/A	Weak Entity	Metrics	Observations

		Identifying Relationship, N - N		Specification
for	N/A	N - 1	Recommendation (Exactly Once)	Patient
Can view	N/A	N to N	People	Alert (once or more)
for	N/A	1 - N	Patient (exactly once)	Alert (exactly once)
of	N/A	1 - N	Frequency (Exactly once)	Recommendation
for	N/A	N - 1	Alerts (At most once)	Limits
has	N/A	1 - N	Metrics	Observations (Exactly Once)
for	N/A	N - 1	Alerts (At most once)	Recommendation

3. Ternary:

Relationship	Relationship Attribute	Entity 1	Entity 2	Entity 3
for	N/A	Recommendation (At Most Once)	Observation specification	Disease
for	N/A	Recommendation (At Most Once)	Patient	Observation specification
has	N/A	Limits (At Most Once)	Metrics	Diseases
for	N/A	Limits (At Most Once)	Metrics	Patient

3. A statement acknowledging that you have asked all questions you need to clarify any ambiguities in description.

Team Number 8 of DBMS (CSC 540) consisting of Akshay Nayak, Priyaranjan Behera, Vivekanand Ette, Samrudhi Sharma have asked all the questions that we needed to clarify any ambiguities in the description.