

Data and Application Homework 2

Team-50: Systum

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1 ER-Diagram

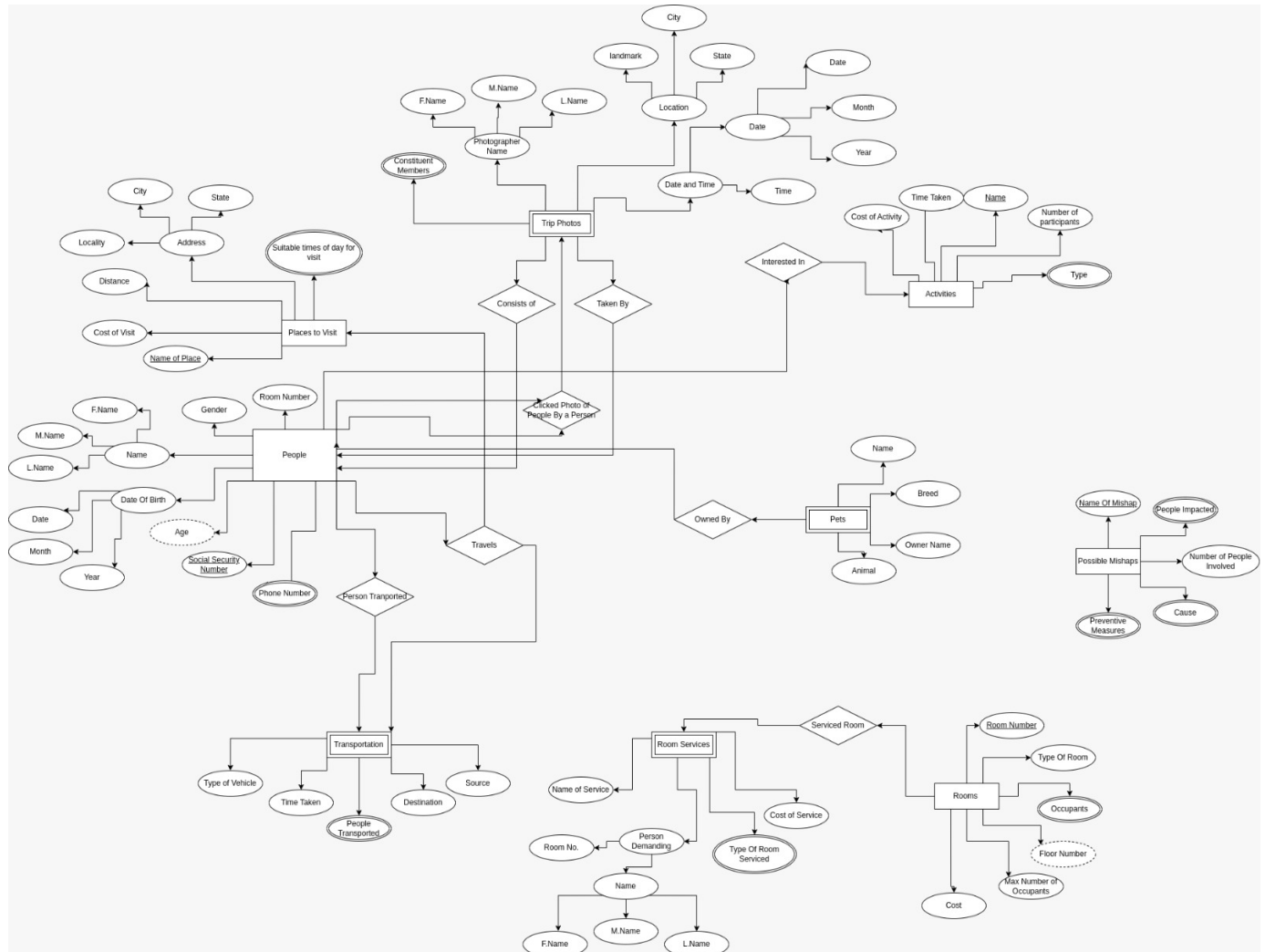


Figure 1: Entity-Relationship (ER) Diagram

ER Diagram

2 Changes

1. Removed redundant attributes "Preferences for Activities" from People Entity and "People Interested" from Activities and Introduced a Corresponding Relationship type "Interested In"
2. Changed "Name" attribute for Pet Entity from Composite to Simple

3 Critical Analysis

1. E-R diagram for corresponding requirement has multiple redundant instances for same data and hence is not NORMALIZED.
example: Trip-Photos Entity has Photographer as well as Constituent member as attributes which contains the same information as Its Relation "Clicked Photo of People by Person".

2. corresponding E-R diagram has Overlapping Relationship which convey same information.
example: "Taken-by" and "Clicked Photo of People by Person" have the same information.