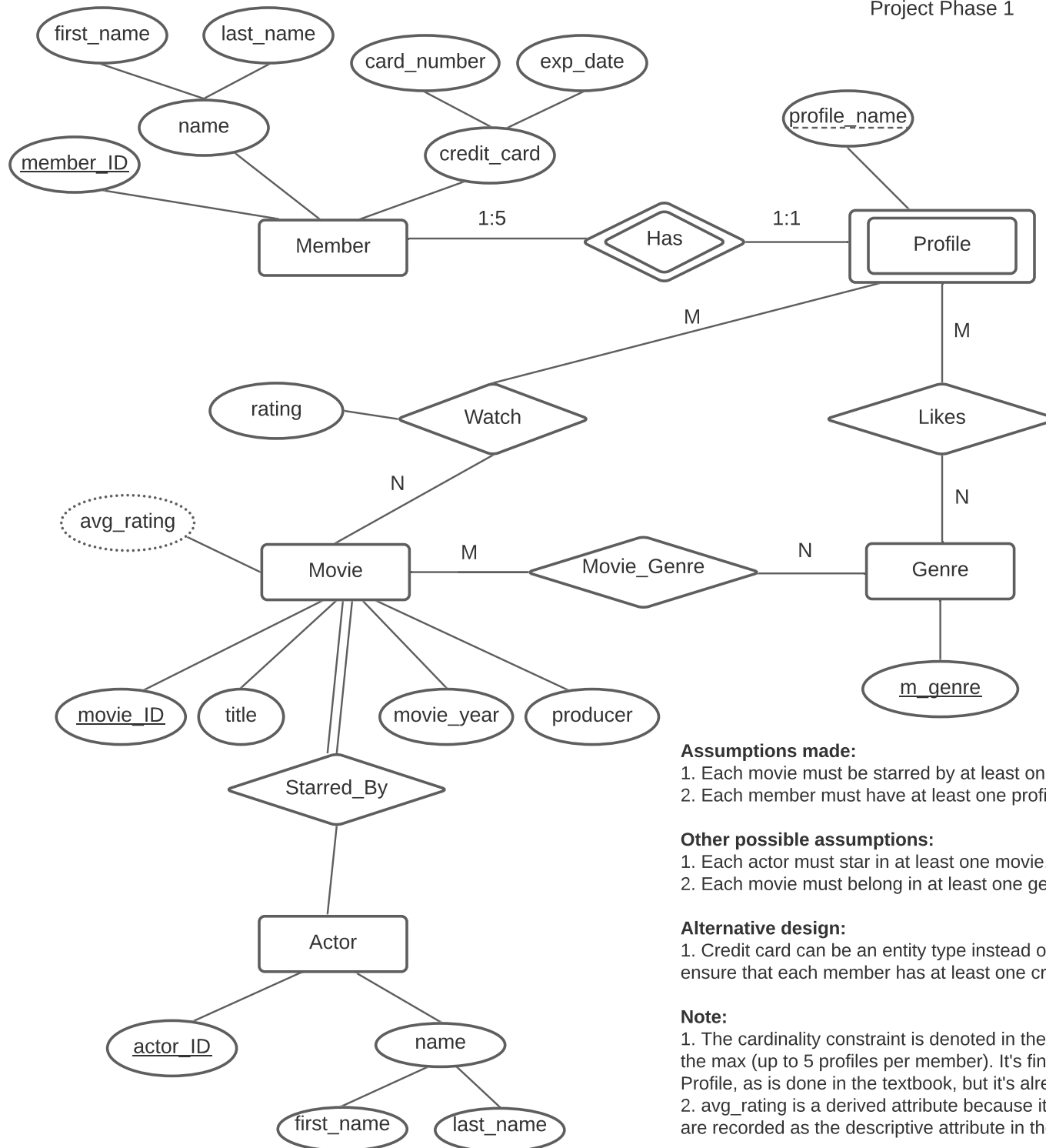


Project Phase 1



Assumptions made:

1. Each movie must be starred by at least one actor.
2. Each member must have at least one profile.

Other possible assumptions:

1. Each actor must star in at least one movie.
2. Each movie must belong in at least one genre.

Alternative design:

1. Credit card can be an entity type instead of a composite attribute (we would be able to ensure that each member has at least one credit card if we make it into an entity type).

Note:

1. The cardinality constraint is denoted in the min:max notation because we want to specify the max (up to 5 profiles per member). It's fine to also put a double line between Has and Profile, as is done in the textbook, but it's already implied by the 1:1.
2. avg_rating is a derived attribute because it can be calculated from individual ratings, which are recorded as the descriptive attribute in the Watch relationship type.