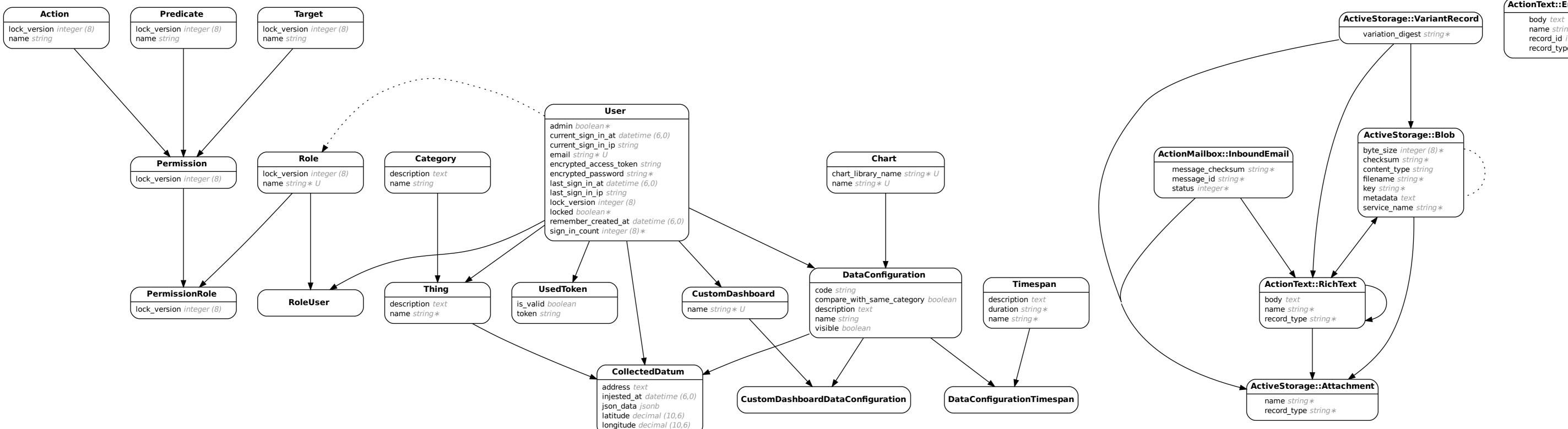Backend domain model