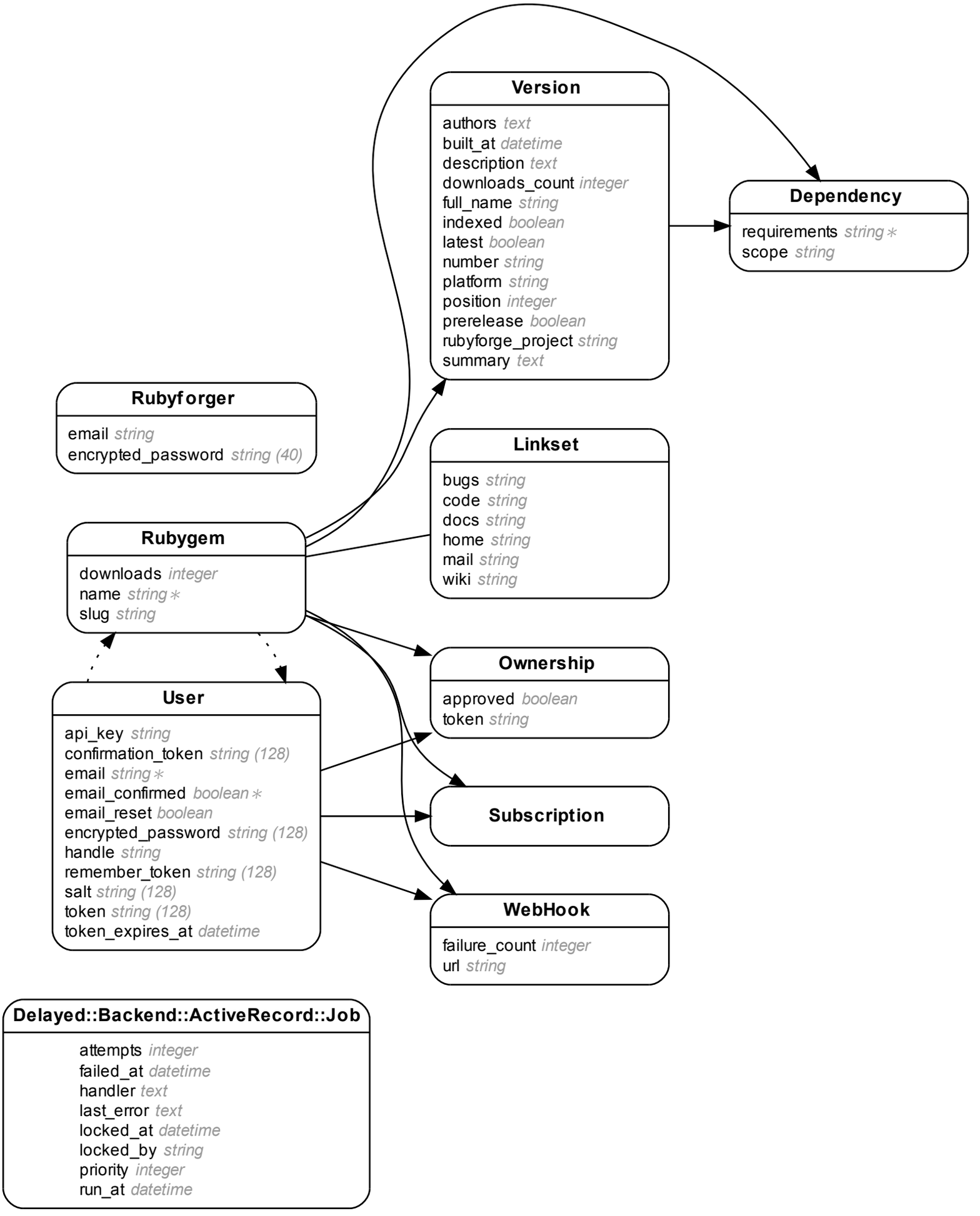Gemcutter domain model