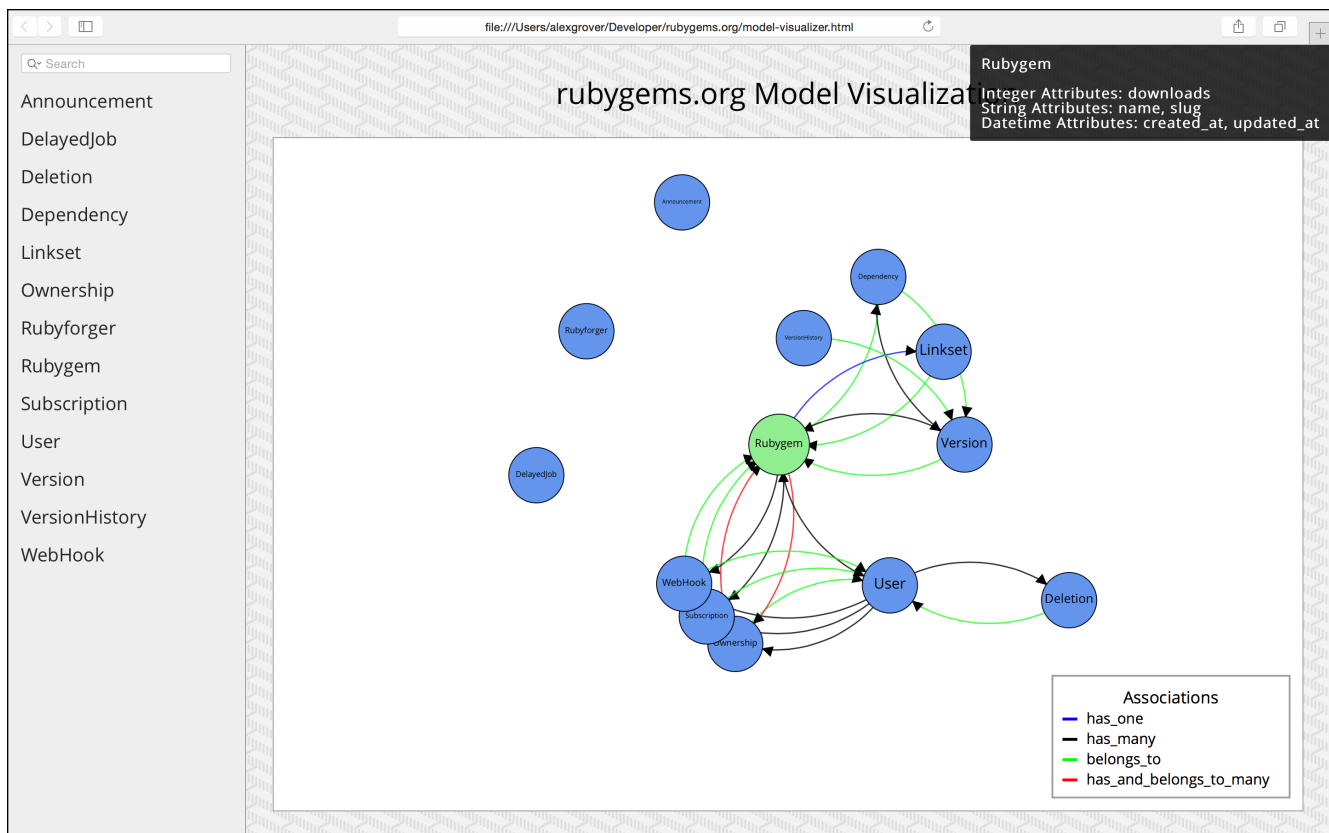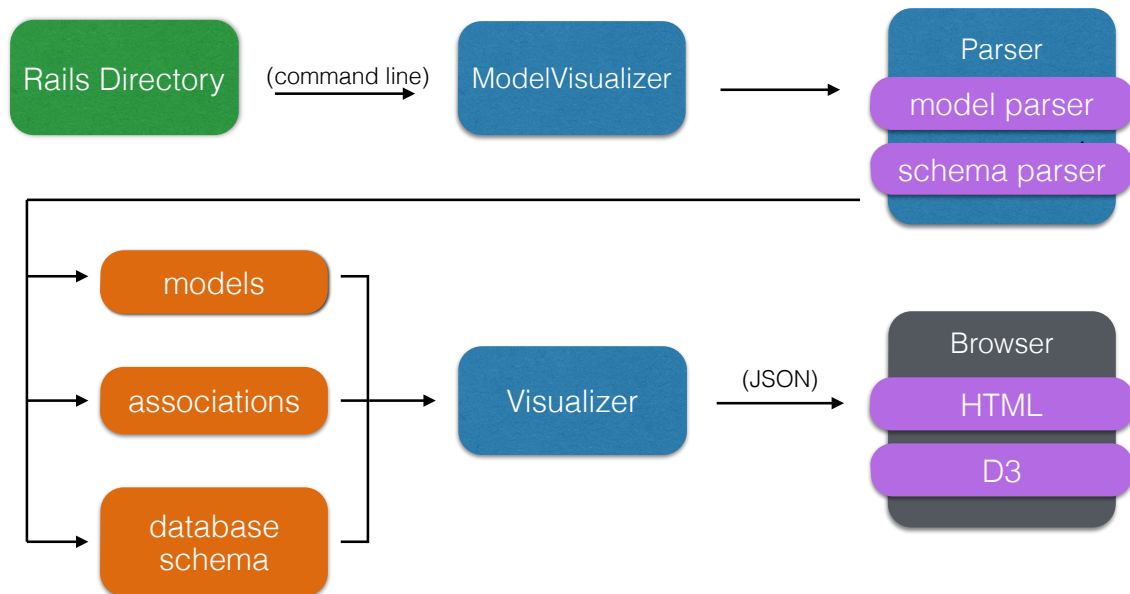# Ruby on Rails Model Visualizer

CS 210 Open Source Project

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Installation and use of this project is simple - it is deployed on RubyGems.org, so any developer that wants to use it can simply run a single command to install it on their personal machine. They can then run the provided executable on the project directory and an output page is opened in their browser. As shown on the title page, a visual display of the app's models along with a searchable sidebar and the models' attributes are shown. This is useful to people like new developers on a large project who are trying to get a better understanding of how the different parts of the Rails app interact.

Architecture Diagram

The gem scrapes model and schema files from the project to get the data to create the interactive image. As shown in the architecture diagram, the Parser delegates the scraping to Model and Schema parsers which create an array of Model objects. This data is then converted to JSON by the Visualizer class that handles creating the output file. It inserts the JSON into a template file along with paths to other dependencies and writes the output to a new file. This is then opened with the default browser for the user to see. The interactivity is done using d3.js which made it easier for us to create slick animations.

We developed this gem primarily on GitHub as we want it to be open source and hope to encourage contributions from users in the future. Our primary channel of distribution is RubyGems.org as that provides an integrated interface that all Ruby users already have.