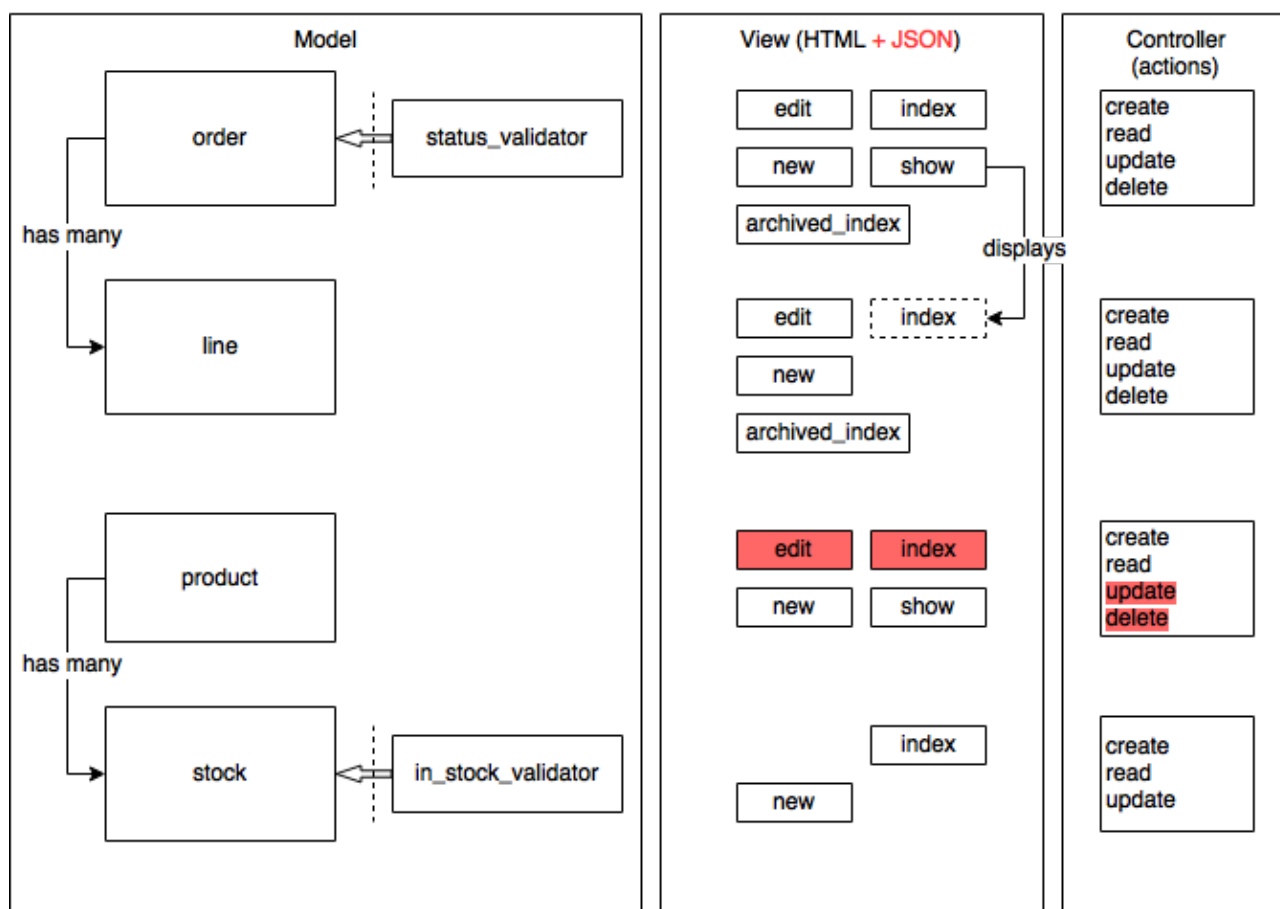


Specification

Ruby will be used because it operates in a virtual machine, separating the application code from the systems code needed to run on several different platforms, such as Linux, OSX or Windows. Ruby on Rails will be used on top of Ruby because it provides a clear model-view-controller structure. It also provides the ability to automatically log all transactions and requests, aiding auditing. It has a production mode and a development mode meaning that assets (such as Javascript and CSS) only get compiled into a single file in production mode. This helps when debugging in development mode because the developer can see the separate files loaded into the browser, and speeds serving of static assets in production mode. Since only one file is served, only one HTTP connection needs to be established. It is recommended that the Rails Application be deployed behind a web server such as nginx or Apache.

The ActiveRecord Object-Relationship Mapping will be used because using an ORM separates the expression of the business logic from the details of handling an SQL database, aiding clarity, and migration to another type of database, such as PostgreSQL or MySQL. ActiveRecord also has an extremely expressive domain specific language for dealing with databases.

Object Map



not implemented