**Software Platform used:**

1. **Ruby on Rails**

**Ruby on Rails**, often simply **Rails**, is an [open source](http://en.wikipedia.org/wiki/Open_source) [web application framework](http://en.wikipedia.org/wiki/Web_application_framework) which runs via the [Ruby programming language](http://en.wikipedia.org/wiki/Ruby_(programming_language)). It is a [full-stack](http://en.wikipedia.org/wiki/Solution_stack) framework: it allows creating pages and applications that gather information from the web server, talk to or query the database, and render templates out of the box. As a result, Rails features a routing system that is independent of the web server.

Ruby on Rails emphasizes the use of well-known [software engineering](http://en.wikipedia.org/wiki/Software_engineering) [patterns](http://en.wikipedia.org/wiki/Software_design_pattern) and principles, such as [*active record pattern*](http://en.wikipedia.org/wiki/Active_record_pattern), [*convention over configuration*](http://en.wikipedia.org/wiki/Convention_over_configuration) *(CoC)*, [*don't repeat yourself*](http://en.wikipedia.org/wiki/Don%27t_repeat_yourself) *(DRY)*, and [*model–view–controller*](http://en.wikipedia.org/wiki/Model%E2%80%93view%E2%80%93controller) *(MVC)*.

1. **SQLite**

**SQLite** is a [relational database management system](http://en.wikipedia.org/wiki/Relational_database_management_system) contained in a [C](http://en.wikipedia.org/wiki/C_(programming_language)) programming [library](http://en.wikipedia.org/wiki/Library_(computer_science)). In contrast to other database management systems, SQLite is not a separate process that is accessed from the client application, but an integral part of it.

SQLite is [ACID](http://en.wikipedia.org/wiki/Atomicity,_consistency,_isolation,_durability)-compliant and implements most of the [SQL](http://en.wikipedia.org/wiki/SQL) standard, using a dynamically and weakly typed SQL [syntax](http://en.wikipedia.org/wiki/Syntax) that does not guarantee the [domain integrity](http://en.wikipedia.org/wiki/Integrity_constraints).

1. **Python**

**Instructions to run the program:**

1. Install Ruby on Rails

sudo apt-get ruby

gem install rails

1. Install Python

sudo apt-get python

1. To run the Online Judge
   1. In one terminal window/command prompt:

cd (path of directory where OnlineJudge folder is saved)

cd ./Judgement

python server.py 50007

* 1. In another terminal window/command prompt:

cd (path of directory where OnlineJudge folder is saved)

rails server

This will fire up WEBrick, a web server distributed with Ruby by default. To see the application, open a browser window and navigate to [http://localhost:3000](http://localhost:3000/).