Architectural Pattern Documentation

The architectural pattern used for this travel reimbursement program is the MVC (Model-View-Controller) architectural pattern. MVC is an incredibly popular architectural pattern to use, especially for web applications. There are multiple reasons for using MVC for web applications. MVC is a framework that allows for the creation of projects that are scalable, easy to modify, and development can occur from multiple developers at the same time. Our group chose to use the Rails web framework, which is based on the Ruby programming language. Rails is a web framework that fully takes advantage of the MVC architectural pattern, provides an easier way to develop web applications, and has tremendous documentation.

Diagram:

Model

Database

Controller

Browser

View

Above is a diagram for the Model-View-Controller pattern. Users, through their web browser, are routed to a controller that was created in Rails. The controller’s responsibility is to respond to user events or inputs, push that to the model or database, and then translate what is in the model or database when the controller gets that information or output back. The controller then sends this information or output to the view, which creates a viewable form of that information or output. The viewable form is seen in the web browser.