# SENG4400 – Assignment 3

## Diagram Description

### Physical\_Machine

This represents the physical machine that the application server lives on.

### Server

#### Description

This represents the glassfish instance, running on the *Pysical\_Machine* with the *Payment* application is deployed on.

### Payment

#### Description

The *Payment* application implements a REST client so it can poll the *OnlineShop* in a RESTful manner.

#### Connections

Makes calls over HTTP to the rest servlet exposed by the *OnlineShop* that lives in the *Google\_App\_Engine*. Logs output to a console for the *Bank* to view.

### Rest\_C

Representation of the connection between the *OnlineShop* and the *Payment* applications. *Payment* calls remote methods from *OnlineShop* in an RPC/RESTful manner and gets results from the *OnlineShop.*

### Google\_App\_Engine

Represents the section of Google’s cloud infrastructure where the *OnlineShop* is hosted.

### OnlineShop

#### Description

Online web application for Newyzon’s online shop. Hosted on the *Google\_App\_Engine,* when a *User* makes a login attempt through the web ui, the online shop authenticates and redirects the *User* to a store web UI for them to input a credit card/paypal id for payment or alternatively to an error page, each of these attempts are logged into the console.

#### Connections

Payment objects are passed in an RPC/RESTful manner to the *Payment* application upon request.

### REST\_S

Representation of the connection between the *OnlineShop* and the *Payment* applications. *Payment* calls remote methods from *OnlineShop* in an RPC/RESTful manner and gets results from the *OnlineShop.*

### User

#### Description

Typical user who can log into the *OnlineShop* to make purchases

#### Connections

Communicates with the *OnlineShop* through a web ui.

### Admin

#### Description

Any of Newyzons system administrators.

#### Connections

Can view the audit events a console provided by the *Google\_App\_Engine.*

### Bank

#### Description

Represents the bank who can receive payments.

#### Connections

At this stage the bank can view the payment id and type provided by the *Payment* application.