Lab #5 - Platform-as-a-Service (PaaS)

Introduction

Welcome to Lab #5.

Background

This lab introduces the Google App Engine (GAE) Platform-as-a-Service (PaaS).

Goals of Lab

• Create and deploy an application in GAE

Special Notes

To successfully complete this lab you will need a Google account. By default Google offers a free usage tier, which should be more than enough for this lab. However <u>you</u> are responsible for your own usage and any costs that may be incurred.

Pre-requisites

Google Account

Introduction to Google App Engine (GAE)

The Google App Engine (GAE) PaaS supports the Java, Python, PHP and Go programming languages. For this lab we will use Java to deploy a web project.

The GAE environment is well documented and as such we will be referring primarily to online documentation.

From the GAE documentation:

In this tutorial, you will learn how to:

- build an App Engine application using standard Java web technologies, such as servlets and JSPs
- use the App Engine datastore with the <u>Datastore API</u>
- integrate an App Engine application with Google Accounts for user authentication
- upload your app to App Engine

By the end of the tutorial, you will have implemented a working application, a simple guest book that lets users post messages to a public message board.¹

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¹ https://developers.google.com/appengine/docs/java/gettingstarted/introduction

Go through the tutorial starting from the introduction.

https://developers.google.com/appengine/docs/java/gettingstarted/introduction

You have completed the lab when you have gone through the tutorial and have successfully uploaded your application to App Engine.

Homework

- 1. Open the following URL: http://localhost:8080. Take a screenshot.
- 2. Deploy your project to App Engine. Copy and paste the link of your deployed project.
- 3. Login to your App Engine console of Guestbook project. Take a screenshot.

Deliverables

- Create a {Microsoft Word | PDF } document containing the answers to the test section.
- Name the file <Last Name>_<First Name>_Lab05.{docx|pdf}
- Send the file to me via slack private message

References

Google App Engine Getting Started – Java: https://developers.google.com/appengine/docs/java/gettingstarted/

WAR File: http://en.wikipedia.org/wiki/WAR file format (Sun)