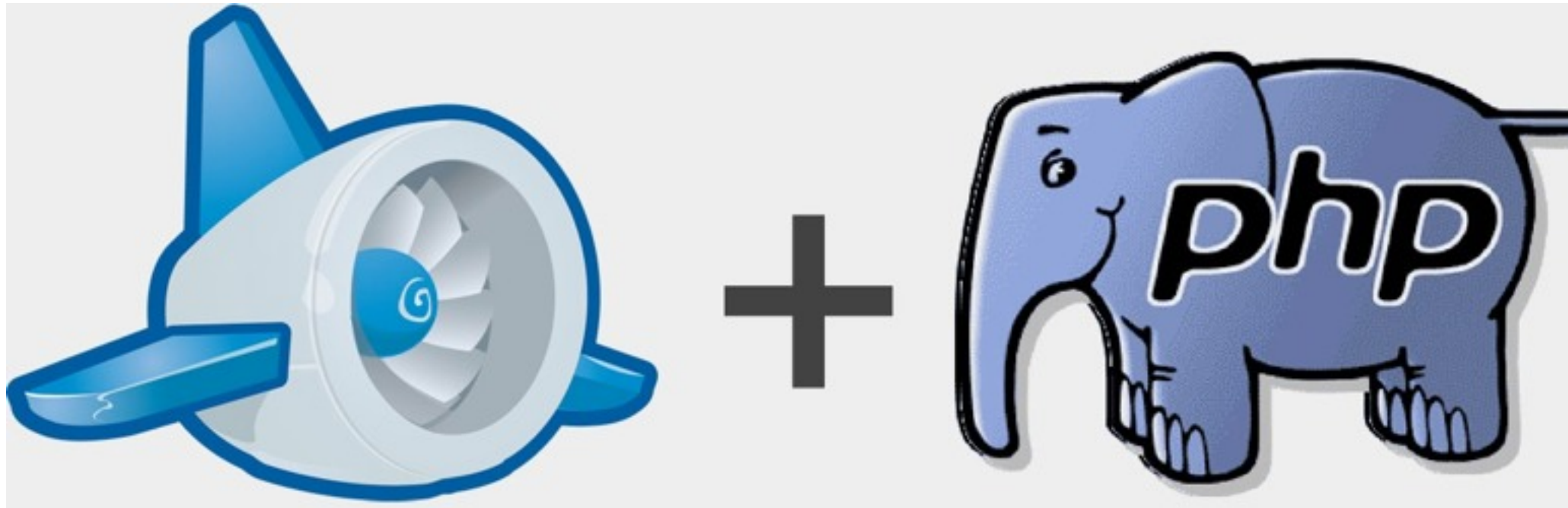


# Google App Engine Assignment - Using PHP

SATHEESHWARAN



Chrome File Edit View History Bookmarks Window Help 482.6 MB Mon 2:56 PM Satheeshwaran

Course: Usability Engineer Outlook Web App User satheeshwaran - Sta Download the Google App

https://developers.google.com/appengine/downloads

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## Download the Google App Engine SDK

By downloading, you agree to be bound by the [Terms](#) that govern use of the App Engine SDK.

Please note: The App Engine SDK is under **active development**, please keep this in mind as you explore its capabilities. See the [SDK Release Notes](#) for the information on the most recent changes to the App Engine SDK. If you discover any issues, please feel free to notify us via our [Issue Tracker](#).

### Google App Engine SDK for PHP

Platform	Version	Package	Size	SHA1 Checksum
Windows	1.9.4 - 2014-04-28	<a href="#">GoogleAppEngine-1.9.4.msi</a>	46.4 MB	3b865ce4da59559981fb59906e94d4da1ac7d1f4
Mac OS X	1.9.4 - 2014-04-28	<a href="#">GoogleAppEngineLauncher-1.9.4.dmg</a>	53.9 MB	24bb94cb1a18cf43a5ec79106997140f6d939766
Linux/Other Platforms	1.9.4 - 2014-04-28	<a href="#">google_appengine_1.9.4.zip</a>	51.7 MB	ee44f7bcc16b4d72c3af0a4f744048d44f75c5ce

Installing on Linux

Installing on Mac OS X

Go to <https://developers.google.com/appengine/downloads> and download the SDK for PHP. I will be downloading the mac version, you can download the windows version if you wish which is more or less the same.

The screenshot shows a Chrome browser window with the URL <https://developers.google.com/appengine/downloads>. The page title is "Download the Google App Engine SDK". The Spotlight search overlay is open, showing the search term "google app engine" and the following results:

- Show All in Finder
- Applications: **GoogleAppEngineLauncher**
- Web Searches:
  - Search Web for "google app engine"
  - Search Wikipedia for "google app engine"
- Spotlight Preferences...

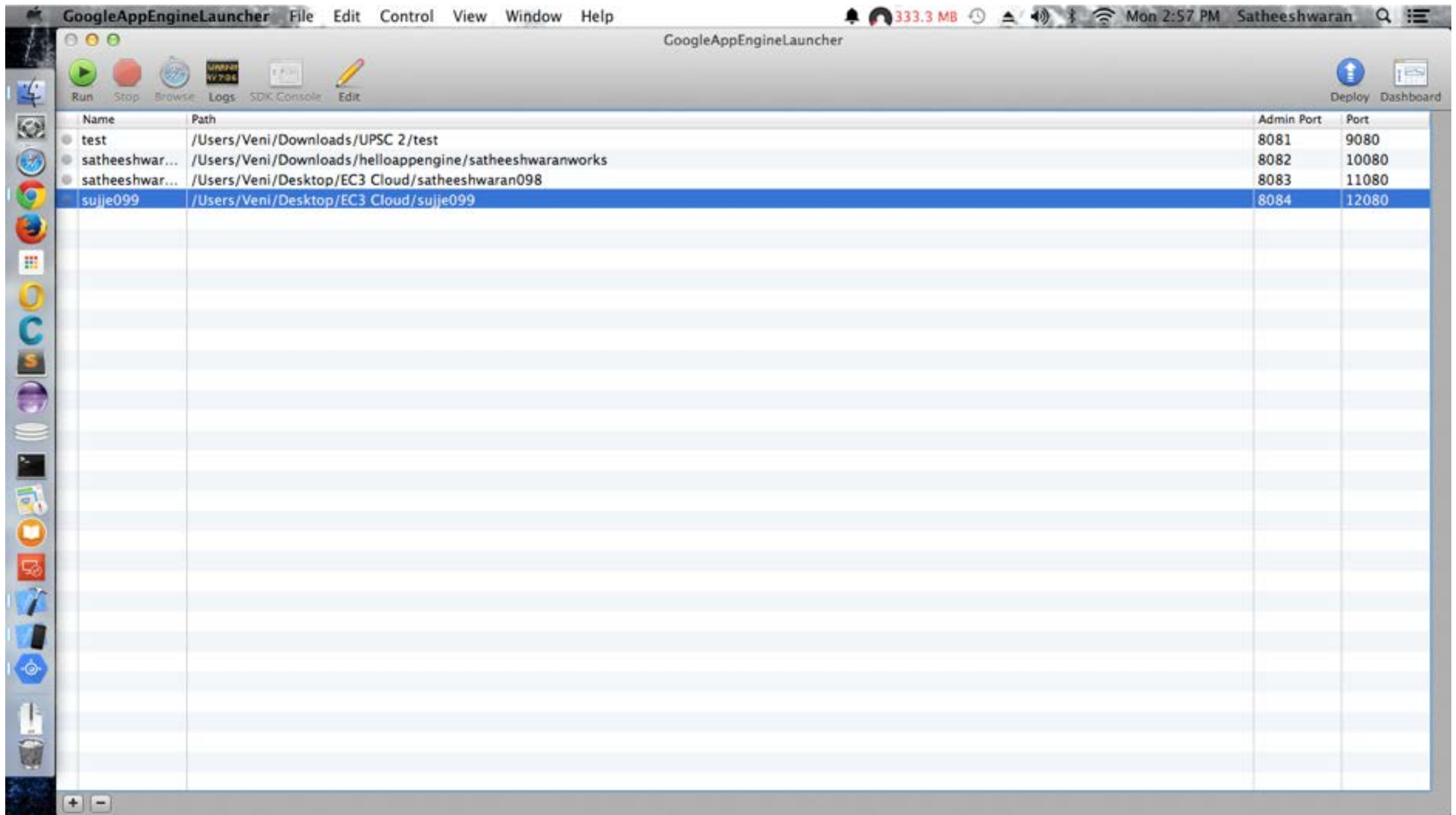
The main content of the page includes a sidebar with links to "What is App Engine?", "App Engine Features", "Pricing and Quotas", "Downloads", "Python", "Java", "PHP Preview", "Go Experimental", "Managing Your App", "Sample Code, Tutorials and Videos", "Further Reading", "Support", and "Admin Console". The main content area has a section titled "Download the Google App Engine SDK" with a sub-section "Google App Engine SDK for PHP". Below this is a table with the following data:

Platform	Version	Package	Size	SHA1 Checksum
Windows	1.9.4 - 2014-04-28	<a href="#">GoogleAppEngine-1.9.4.msi</a>	46.4 MB	3b865ce4da59559981fb59906e94d4da1ac7d1f4
Mac OS X	1.9.4 - 2014-04-28	<a href="#">GoogleAppEngineLauncher-1.9.4.dmg</a>	53.9 MB	24bb94cb1a18cf43a5ec79106997140f6d939766
Linux/Other Platforms	1.9.4 - 2014-04-28	<a href="#">google_appengine_1.9.4.zip</a>	51.7 MB	ee44f7bcc16b4d72c3af0a4f744048d44f75c5ce

Below the table, there are links for "Installing on Linux" and "Installing on Mac OS X".

Open GoogleAppEngineLauncher





This is how the App Engine launcher looks like.

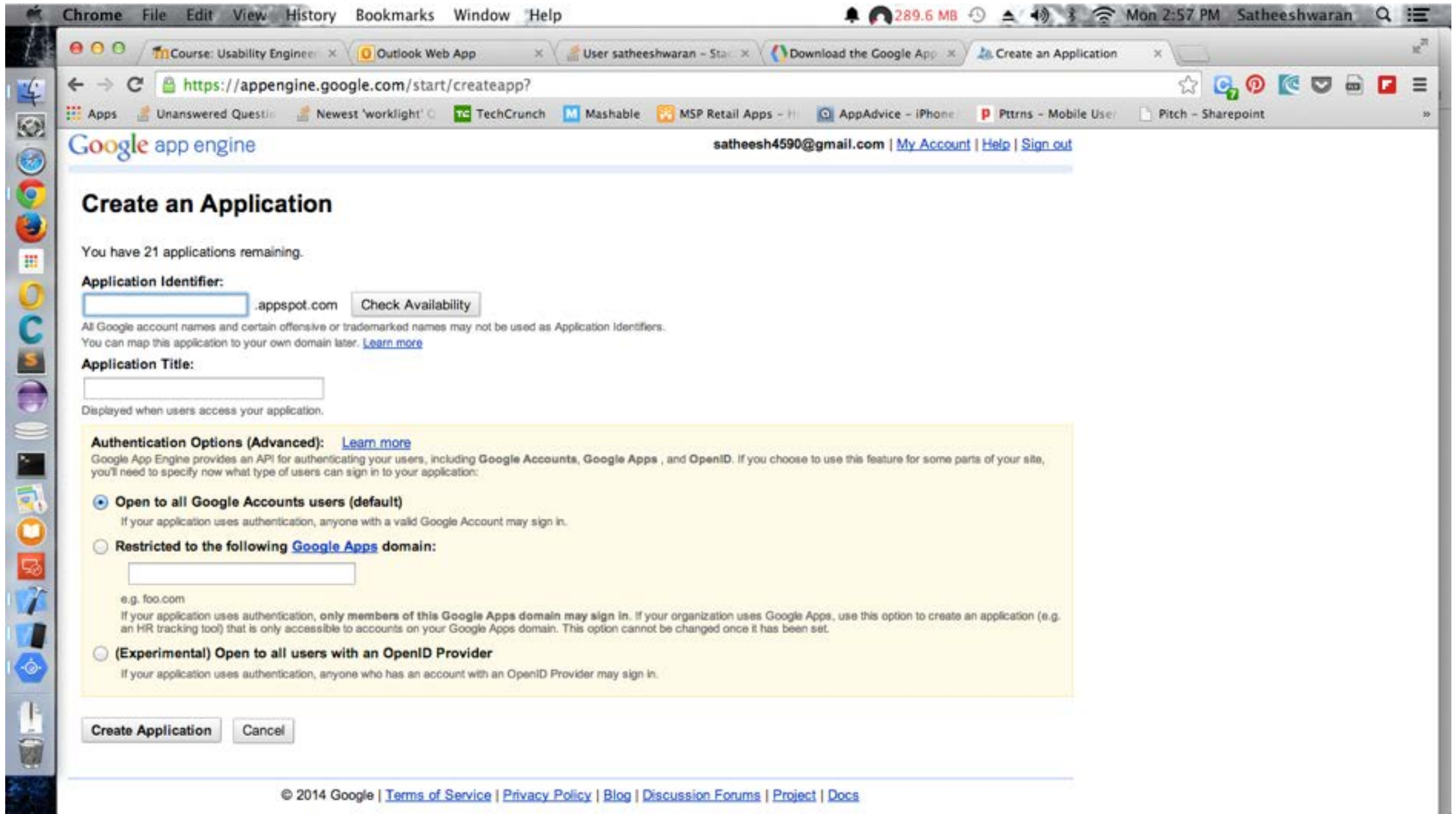
Note: you will not see the list of applications like above, hold on we will create some.

The screenshot shows the Google App Engine console in a Chrome browser. The user is logged in as 'satheesh4590@gmail.com'. The page title is 'My Applications'. Below the title, there is a table listing four applications. The first three are 'Running' and the fourth is 'None Deployed'. At the bottom of the table, there is a 'Create Application' button and a message 'You have 21 applications remaining.'.

Application	Title	Storage Scheme	Status
<a href="#">satheeshwaran098</a>	satheeshwaran098	High Replication	Running
<a href="#">satheeshwaranworks</a>	satheeshworks	High Replication	Running
<a href="#">sujje099</a>	sujje099	High Replication	Running
<a href="#">testingstatichtml</a>	testingstatichtml	High Replication	None Deployed

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Before doing anything here in the launcher, go create an application on <https://appengine.google.com>, even before doing this login using your google account with any of the google services. Again you will not see any list like above, click on create application.



Give the application identifier like **yournameyourlastthreedigitsofyourbitsid**, mine would be **satheeshwaran098**. Click check availability to check for your identifiers availability.



Chrome File Edit View History Bookmarks Window Help 294.6 MB Mon 2:58 PM Satheeshwaran

Course: Usability Engineer Outlook Web App User satheeshwaran - Sta Download the Google App Create an Application

https://appengine.google.com/start/createapp?

Google app engine satheesh4590@gmail.com | My Account | Help | Sign out

## Create an Application

You have 21 applications remaining.

**Application Identifier:**  
satheeshwaranj098 .appspot.com  Yes, "satheeshwaranj098" is available!

All Google account names and certain offensive or trademarked names may not be used as Application Identifiers.  
You can map this application to your own domain later. [Learn more](#)

**Application Title:**  
satheeshwaranj098  
Displayed when users access your application.

**Authentication Options (Advanced):** [Learn more](#)  
Google App Engine provides an API for authenticating your users, including Google Accounts, Google Apps, and OpenID. If you choose to use this feature for some parts of your site, you'll need to specify now what type of users can sign in to your application:

- ☒ **Open to all Google Accounts users (default)**  
If your application uses authentication, anyone with a valid Google Account may sign in.
- ☐ **Restricted to the following Google Apps domain:**  
  
e.g. foo.com  
If your application uses authentication, only members of this Google Apps domain may sign in. If your organization uses Google Apps, use this option to create an application (e.g. an HR tracking tool) that is only accessible to accounts on your Google Apps domain. This option cannot be changed once it has been set.
- ☐ **(Experimental) Open to all users with an OpenID Provider**  
If your application uses authentication, anyone who has an account with an OpenID Provider may sign in.

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Give the same text as in application identifier to application title, do these steps carefully. If user name is not available try firstname +last-name combo etc.



Chrome File Edit View History Bookmarks Window Help 302.4 MB Mon 2:58 PM Satheeshwaran

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Google app engine satheesh4590@gmail.com | My Account | Help | Sign out

## Create an Application

You have 21 applications remaining.

**Application Identifier:**  
satheeshwaranj098 .appspot.com  Yes, "satheeshwaranj098" is available!  
All Google account names and certain offensive or trademarked names may not be used as Application Identifiers. You can map this application to your own domain later. [Learn more](#)

**Application Title:**  
satheeshwaranj098  
Displayed when users access your application.

**Authentication Options (Advanced):** [Learn more](#)  
Google App Engine provides an API for authenticating your users, including Google Accounts, Google Apps, and OpenID. If you choose to use this feature for some parts of your site, you'll need to specify now what type of users can sign in to your application:

- ☒ **Open to all Google Accounts users (default)**  
If your application uses authentication, anyone with a valid Google Account may sign in.
- ☐ **Restricted to the following Google Apps domain:**  
  
e.g. foo.com  
If your application uses authentication, only members of this Google Apps domain may sign in. If your organization uses Google Apps, use this option to create an application (e.g. an HR tracking tool) that is only accessible to accounts on your Google Apps domain. This option cannot be changed once it has been set.
- ☐ **(Experimental) Open to all users with an OpenID Provider**  
If your application uses authentication, anyone who has an account with an OpenID Provider may sign in.

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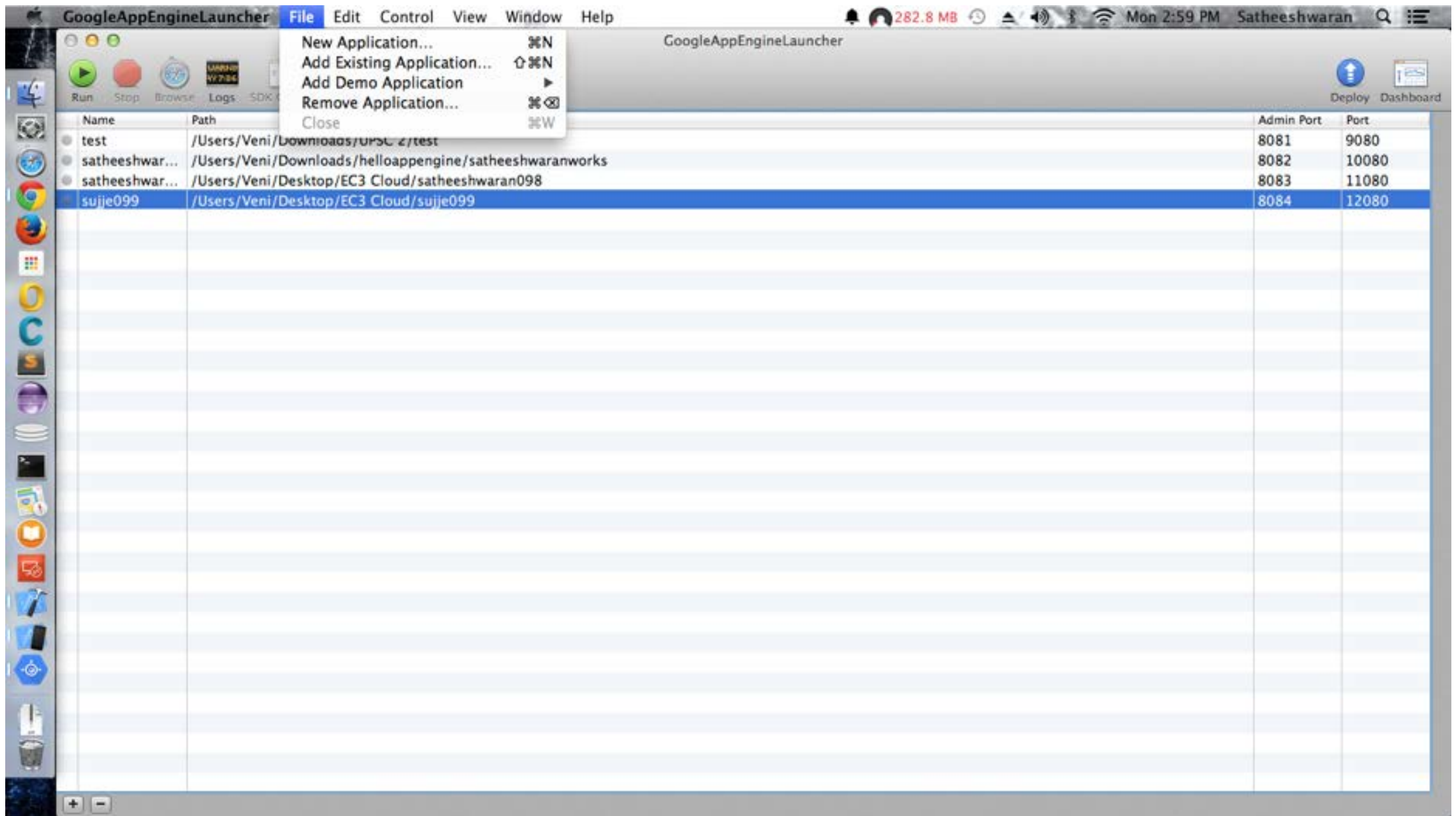
Select authentication scheme as open to all (don't worry about this for now) and click on create application

The screenshot shows the Google App Engine admin console in a Chrome browser. The page title is "Google app engine" and the user is logged in as "satheesh4590@gmail.com". The "My Applications" section displays a table with four applications. The first three are "Running" and the fourth is "None Deployed".

Application	Title	Storage Scheme	Status
<a href="#">satheeshwaran098</a>	satheeshwaran098	High Replication	Running
<a href="#">satheeshwaranworks</a>	satheeshworks	High Replication	Running
<a href="#">sujje099</a>	sujje099	High Replication	Running
<a href="#">testingstatichtml</a>	testingstatichtml	High Replication	None Deployed

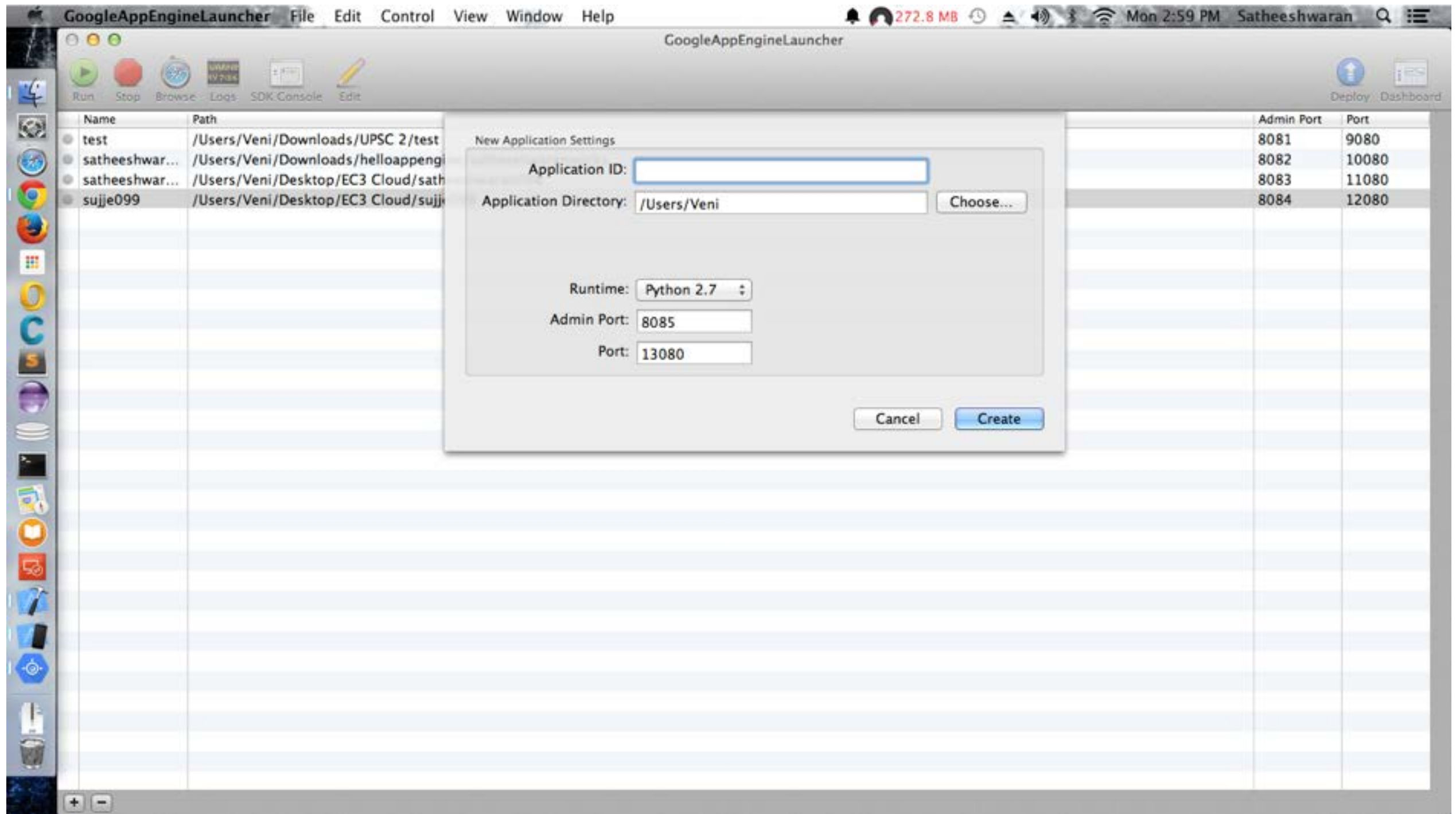
Below the table, there is a "Create Application" button and a message: "You have 21 applications remaining." The footer shows "© 2014 Google" and links to "Terms of Service", "Privacy Policy", "Blog", "Discussion Forums", "Project", and "Docs".

You will find the newly created application listed in the admin console page under My Applications, the app is ready and you would find the status of the application as **None Deployed**. Now we got to create stuff using the launcher we installed and deploy apps to the cloud.

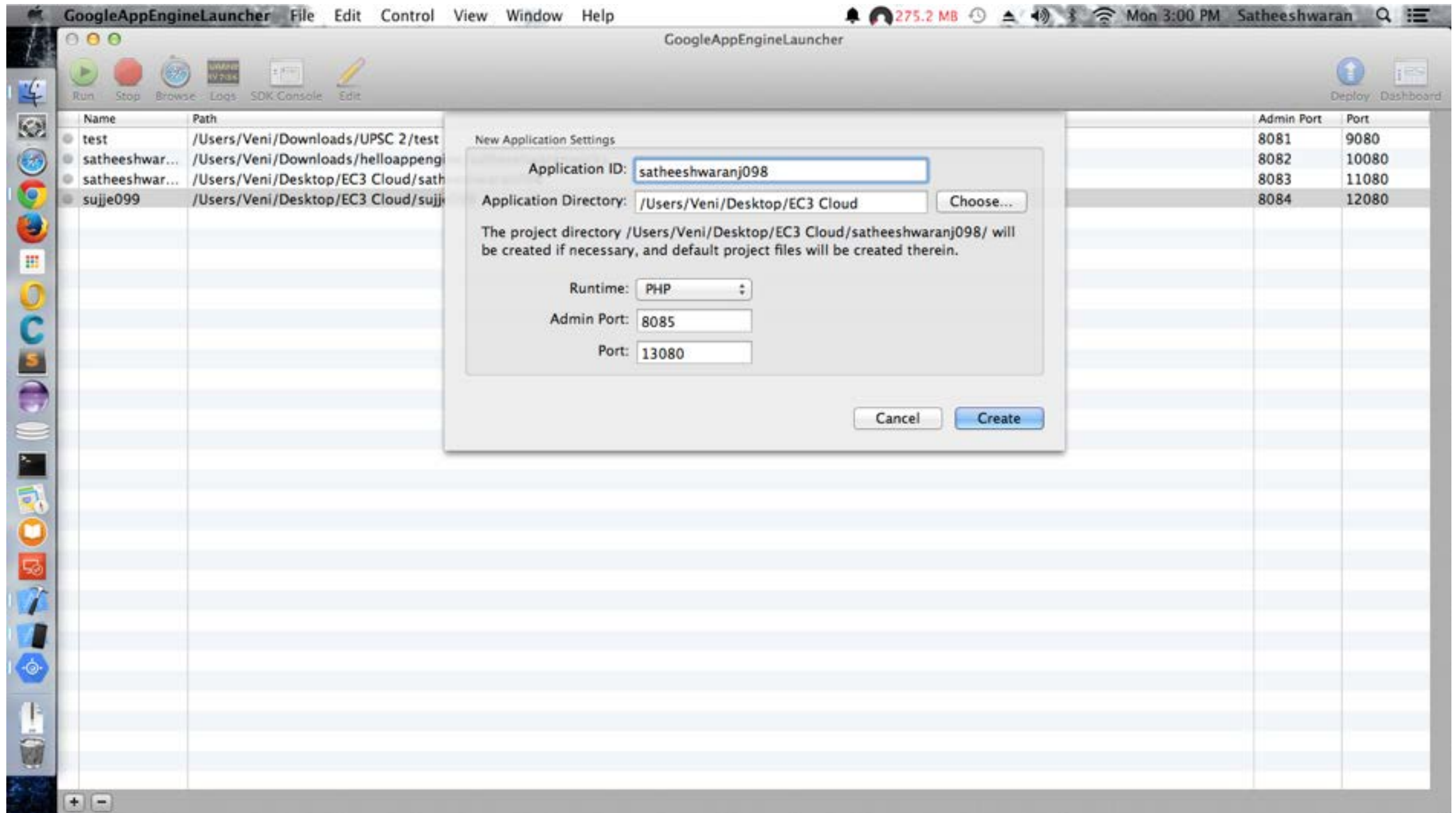


Coming back to the launcher, go to file and click on create application (I hope the menu is similar on windows too :P).

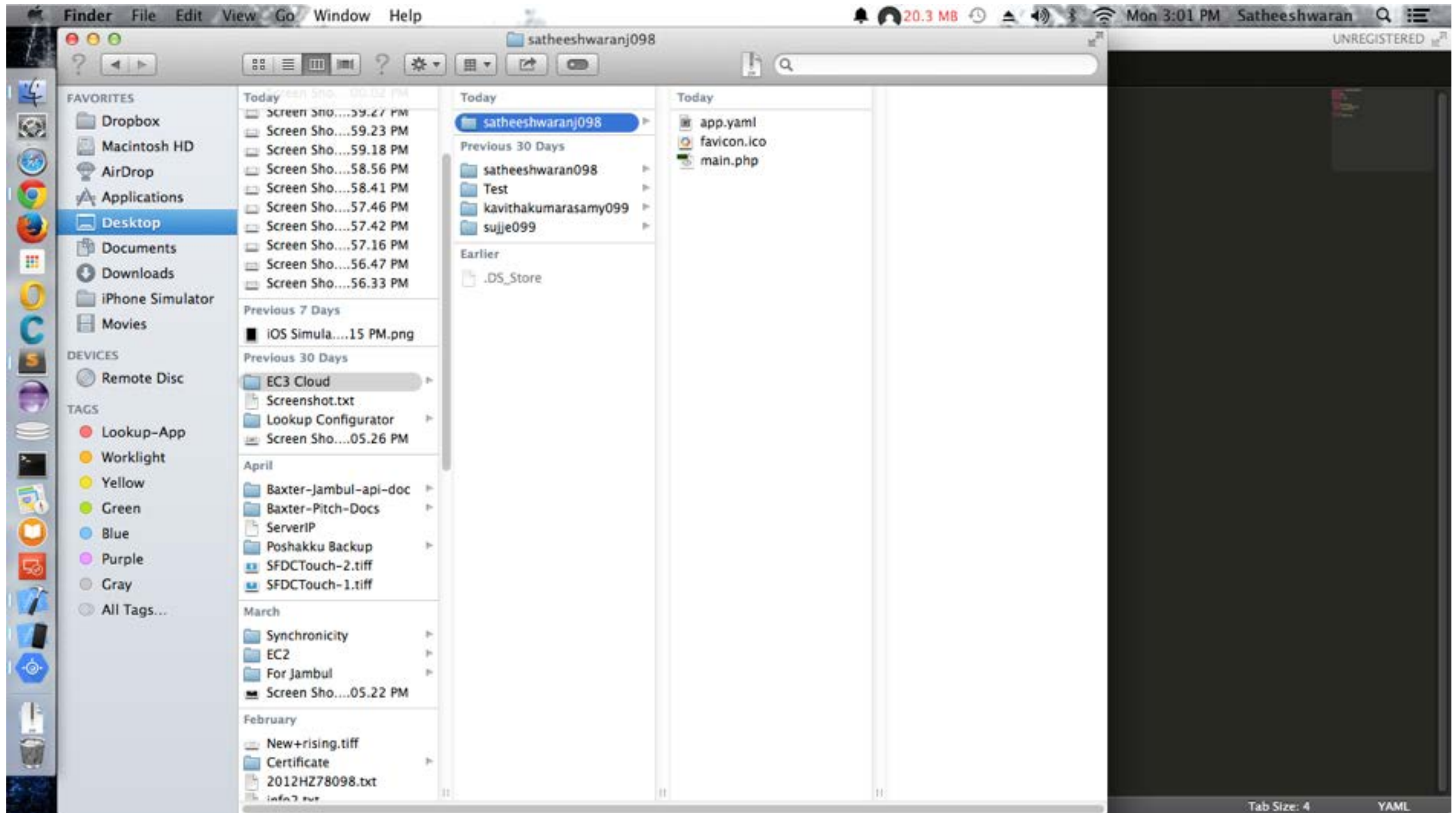




Enter the application ID that we created on the cloud console here, give the app a physical directory and select run time as PHP



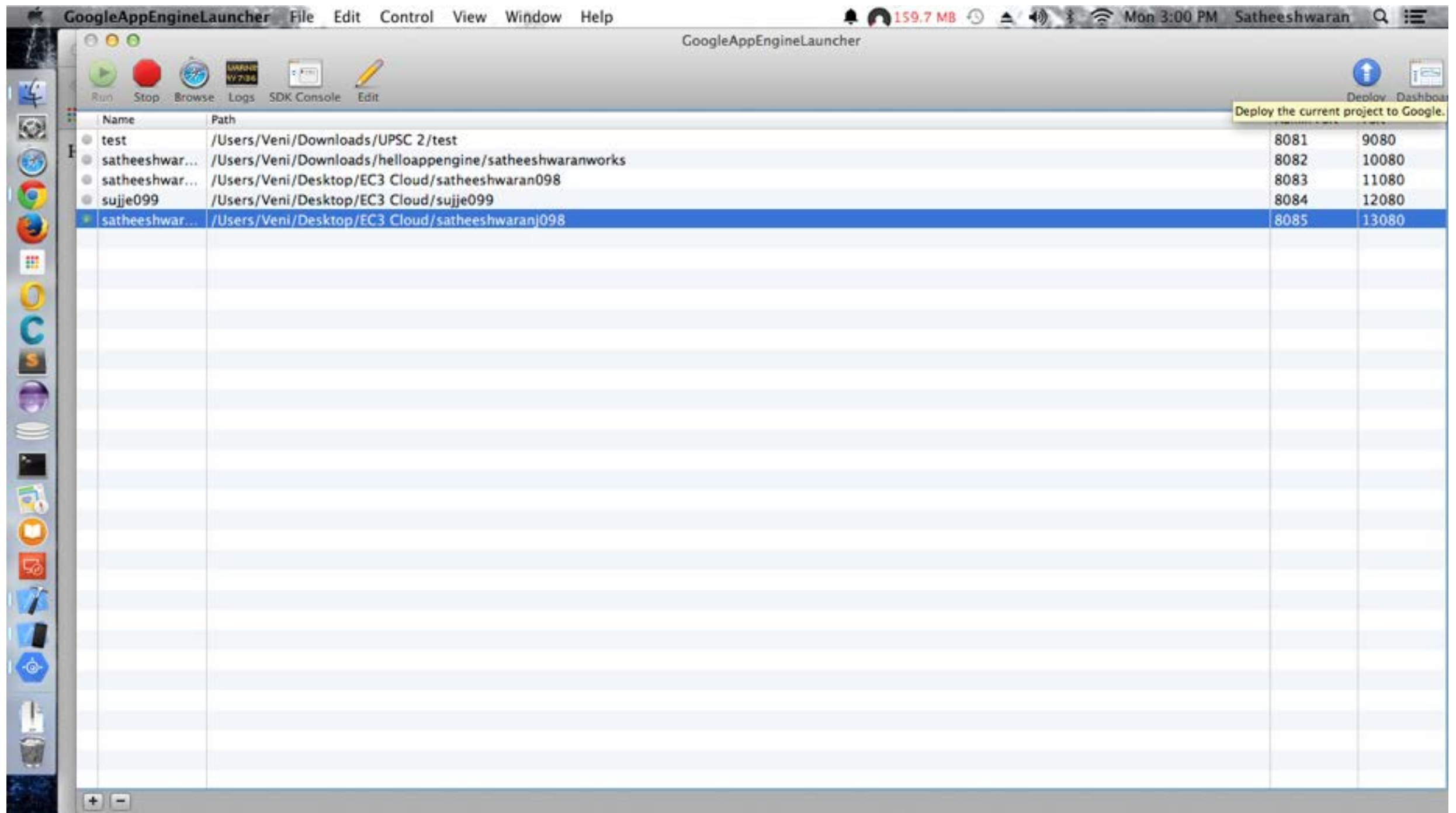
Change all necessary settings and click on create. You will find the newly created application on the list.



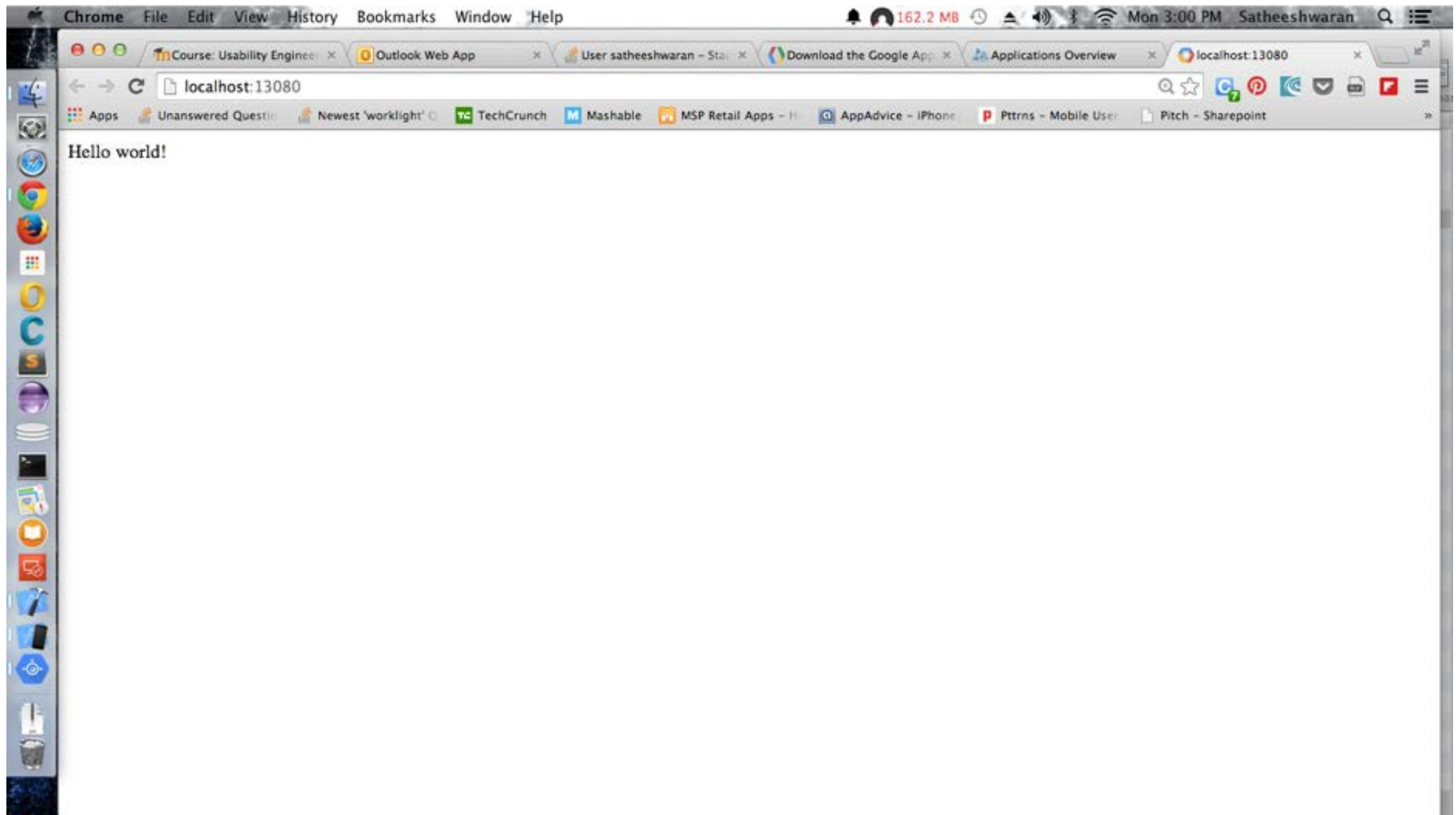
Now go to the application directory to see what all the launcher has created for us.

1. app.yaml - this is like the manifest file that has contents about the application, version, default page etc.
2. main.php - as we selected the platform as PHP the launcher adds a dummy php script file that echoes Hello world.

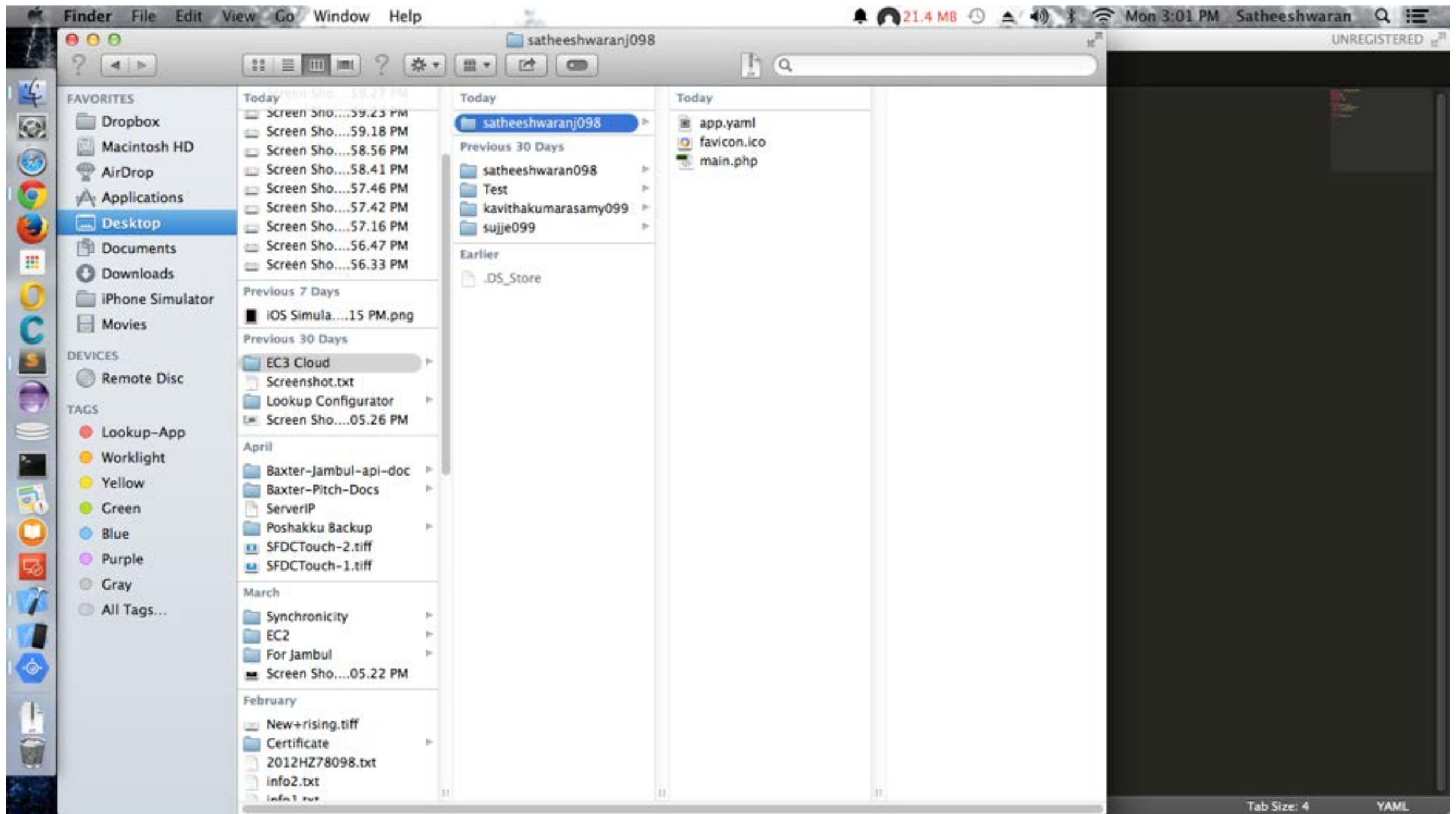




Now go ahead and run the newly created application by right clicking on the app or clicking run on the top. Note: we are running the app locally with the Google app engine PHP SDK, nothing has been deployed to the cloud for now.

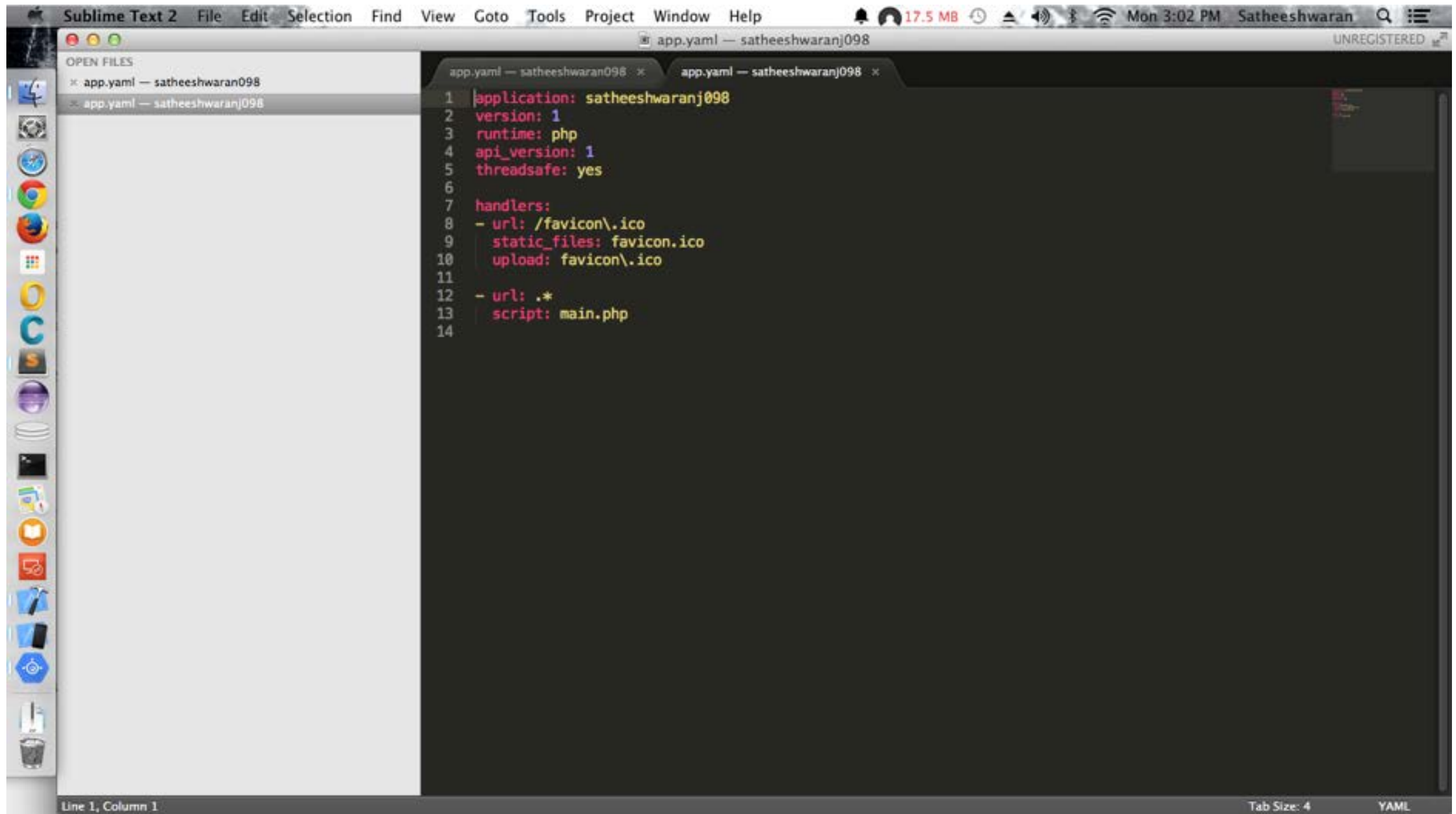


Now if you click on browse in the launcher or going to your browser and typing localhost:yourportnumber you should get “Hello world!”. If this works well you are too close to completion.



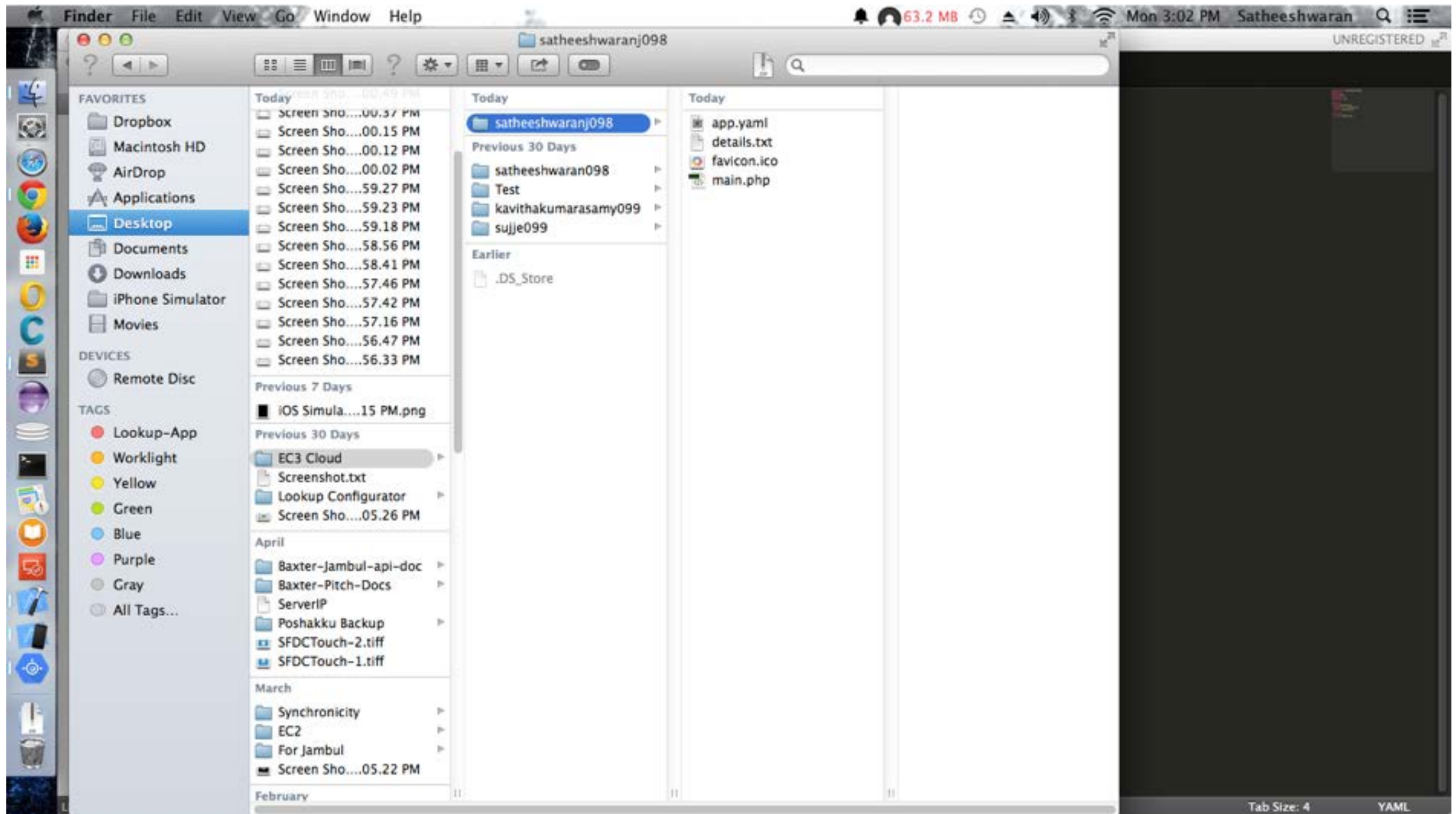
Open the application directory again



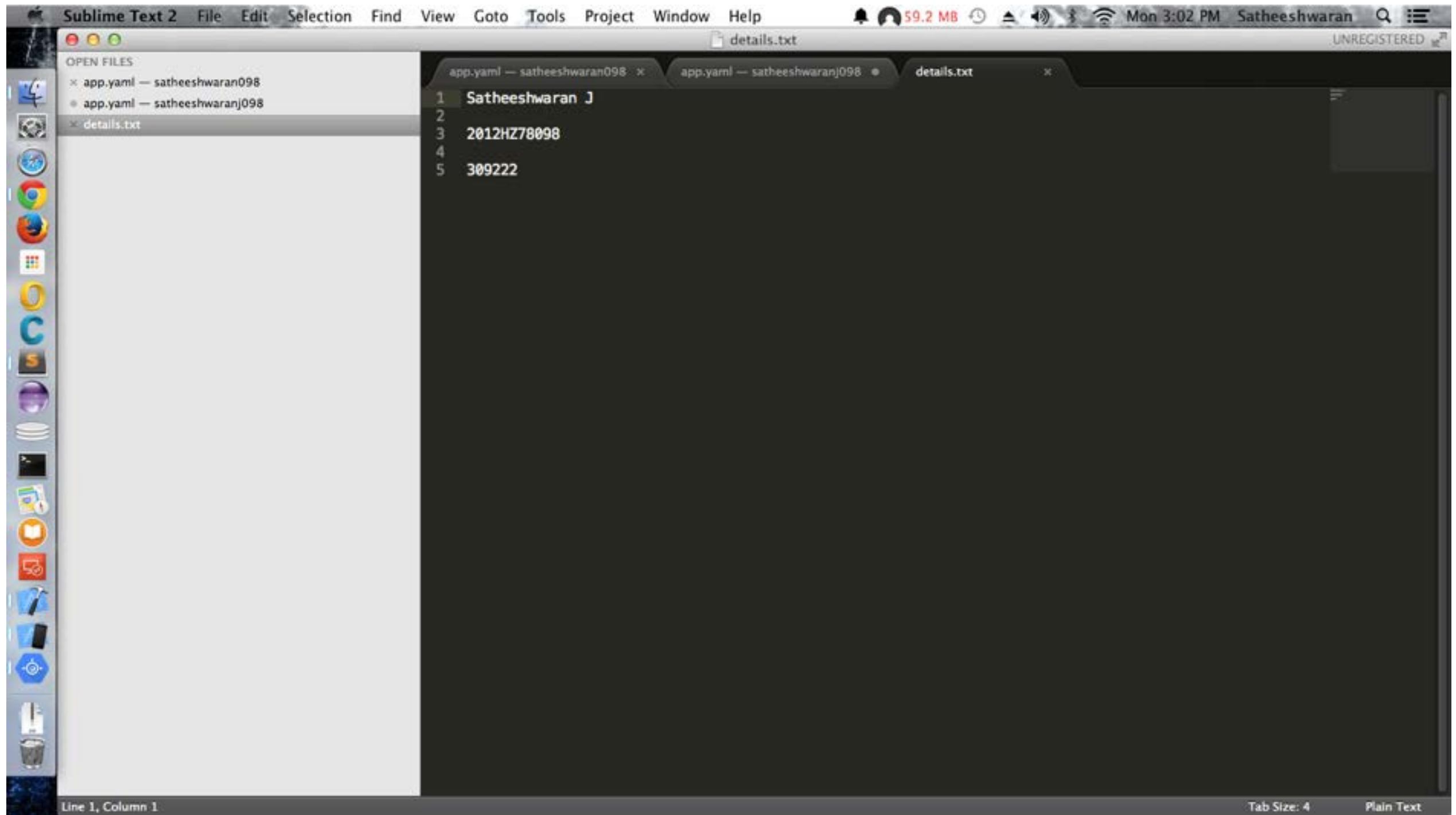
A screenshot of the Sublime Text 2 text editor interface. The top menu bar includes 'File', 'Edit', 'Selection', 'Find', 'View', 'Goto', 'Tools', 'Project', 'Window', and 'Help'. The status bar at the top right shows '17.5 MB', 'Mon 3:02 PM', and the user name 'Satheeshwaran'. The left sidebar shows 'OPEN FILES' with two tabs for 'app.yaml — satheeshwaran098'. The main editor area displays the content of 'app.yaml' with line numbers 1 through 14. The configuration is in YAML format, defining an application named 'satheeshwaranj098' with version 1, PHP runtime, and specific handlers for favicon and main script.

```
1 application: satheeshwaranj098
2 version: 1
3 runtime: php
4 api_version: 1
5 threadsafe: yes
6
7 handlers:
8 - url: /favicon\.ico
9   static_files: favicon.ico
10  upload: favicon\.ico
11
12 - url: .*
13   script: main.php
14
```

Open app.yaml in your text editor, look at the -url:\* parameter the value is script:main.php, you can go ahead and open main.php to see its contents it would be “<?php echo”Hello world!”?>” and that is the reason we got the Hello World text when we ran the application.

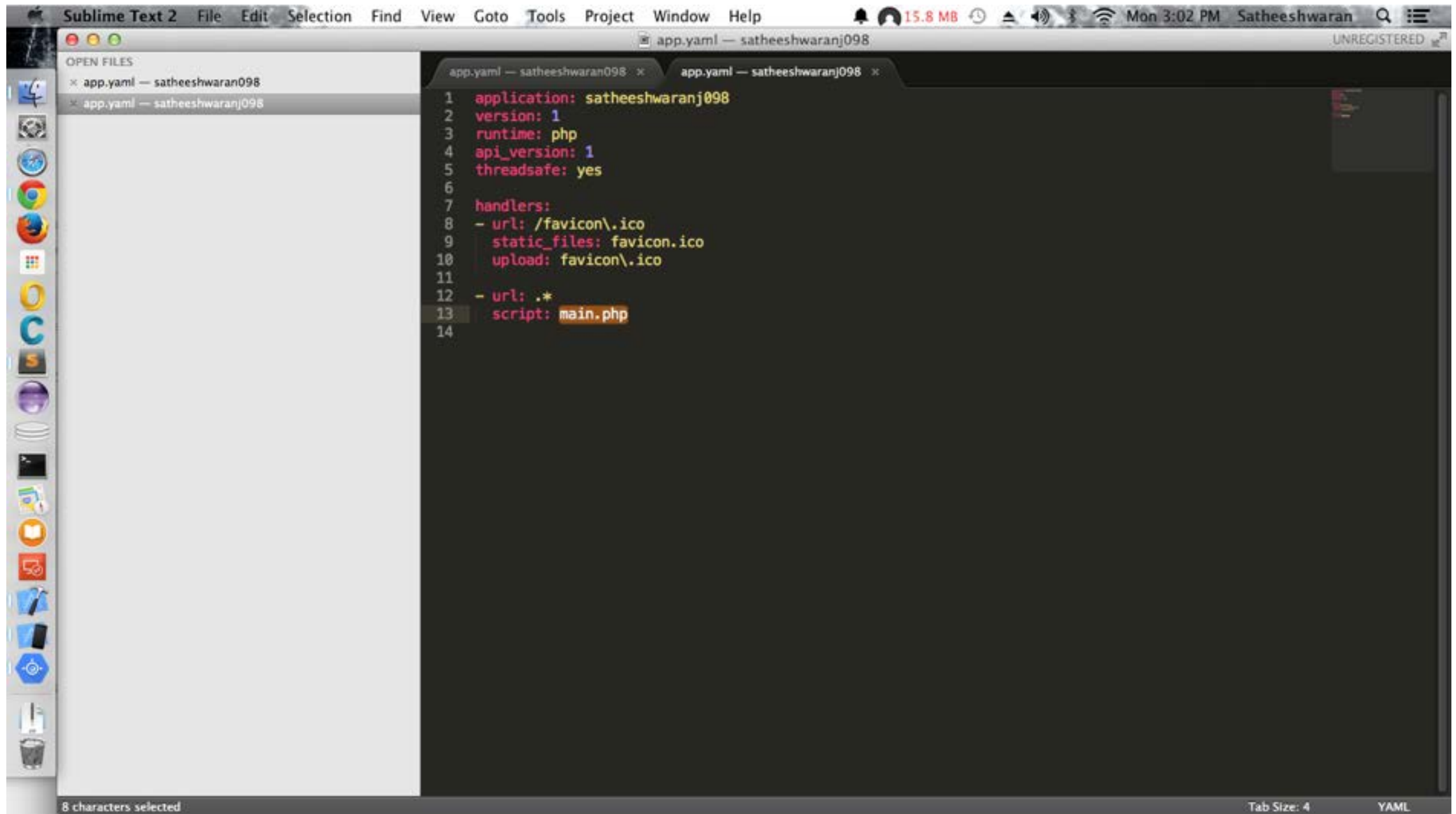


Lets add a file called details.txt onto the application directory with the following contents, your name newline your bitsid newline your emp id



details.txt would be like above.

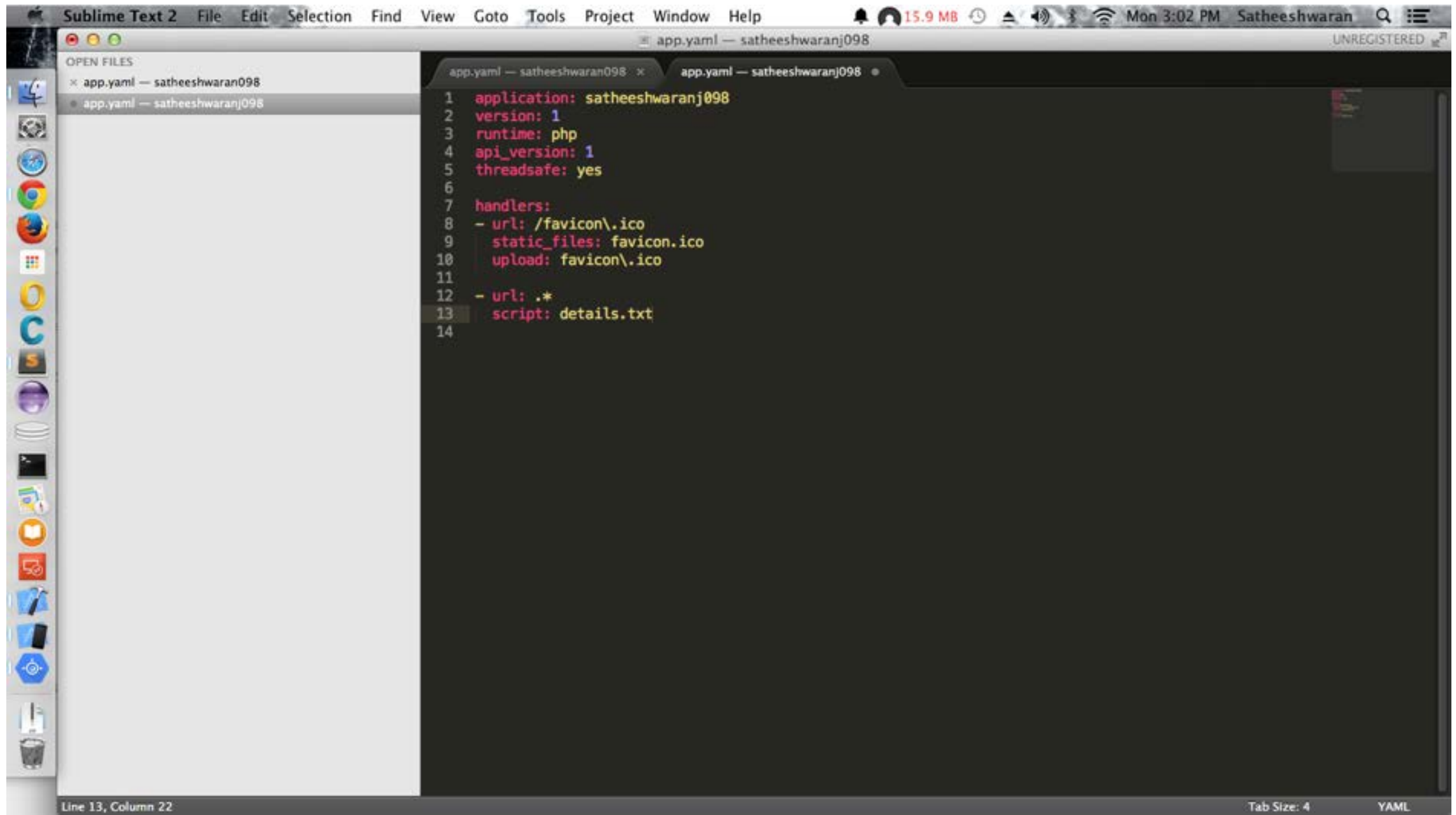




The screenshot shows the Sublime Text 2 interface. The menu bar at the top includes File, Edit, Selection, Find, View, Goto, Tools, Project, Window, and Help. The status bar at the bottom indicates '8 characters selected', 'Tab Size: 4', and 'YAML'. The left sidebar shows the 'OPEN FILES' list with two entries: 'app.yaml — satheeshwaran098'. The main editor area displays the content of 'app.yaml' with the following code:

```
1 application: satheeshwaranj098
2 version: 1
3 runtime: php
4 api_version: 1
5 threadsafe: yes
6
7 handlers:
8 - url: /favicon\.ico
9   static_files: favicon.ico
10  upload: favicon\.ico
11
12 - url: .*
13   script: main.php
14
```

Now I am going to do a small tweak, I could use main.php to echo the contents of details.txt but why? lets try to replace main.php with details.txt. Go ahead and replace main.php to details.txt

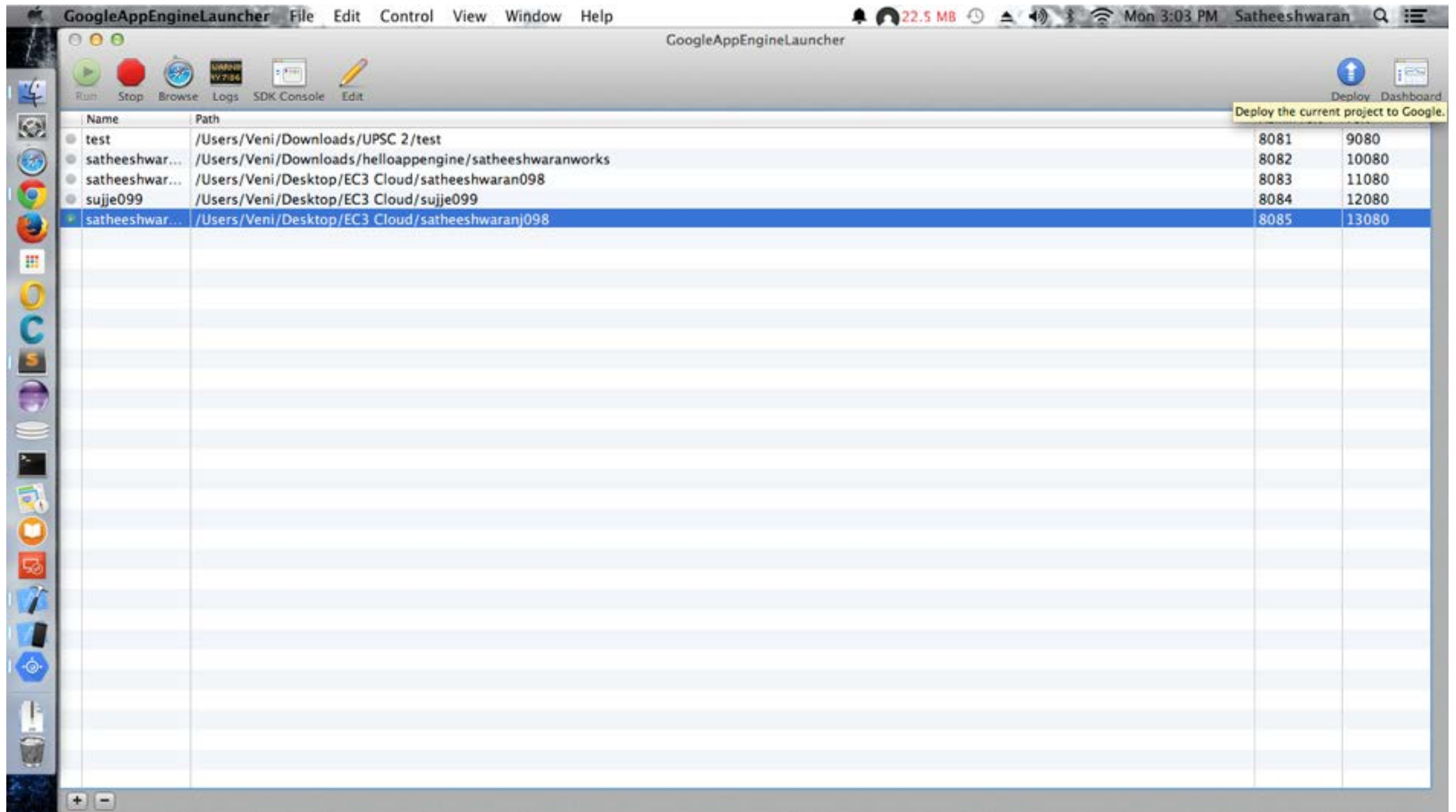


The image shows a screenshot of the Sublime Text 2 text editor. The window title is "Sublime Text 2" and the menu bar includes "File", "Edit", "Selection", "Find", "View", "Goto", "Tools", "Project", "Window", and "Help". The status bar at the top right shows "15.9 MB", "Mon 3:02 PM", and the user name "Satheeshwaran". The editor is displaying a file named "app.yaml" with the following content:

```
1 application: satheeshwaranj098
2 version: 1
3 runtime: php
4 api_version: 1
5 threadsafe: yes
6
7 handlers:
8 - url: /favicon\.ico
9   static_files: favicon.ico
10  upload: favicon\.ico
11
12 - url: .*
13   script: details.txt
14
```

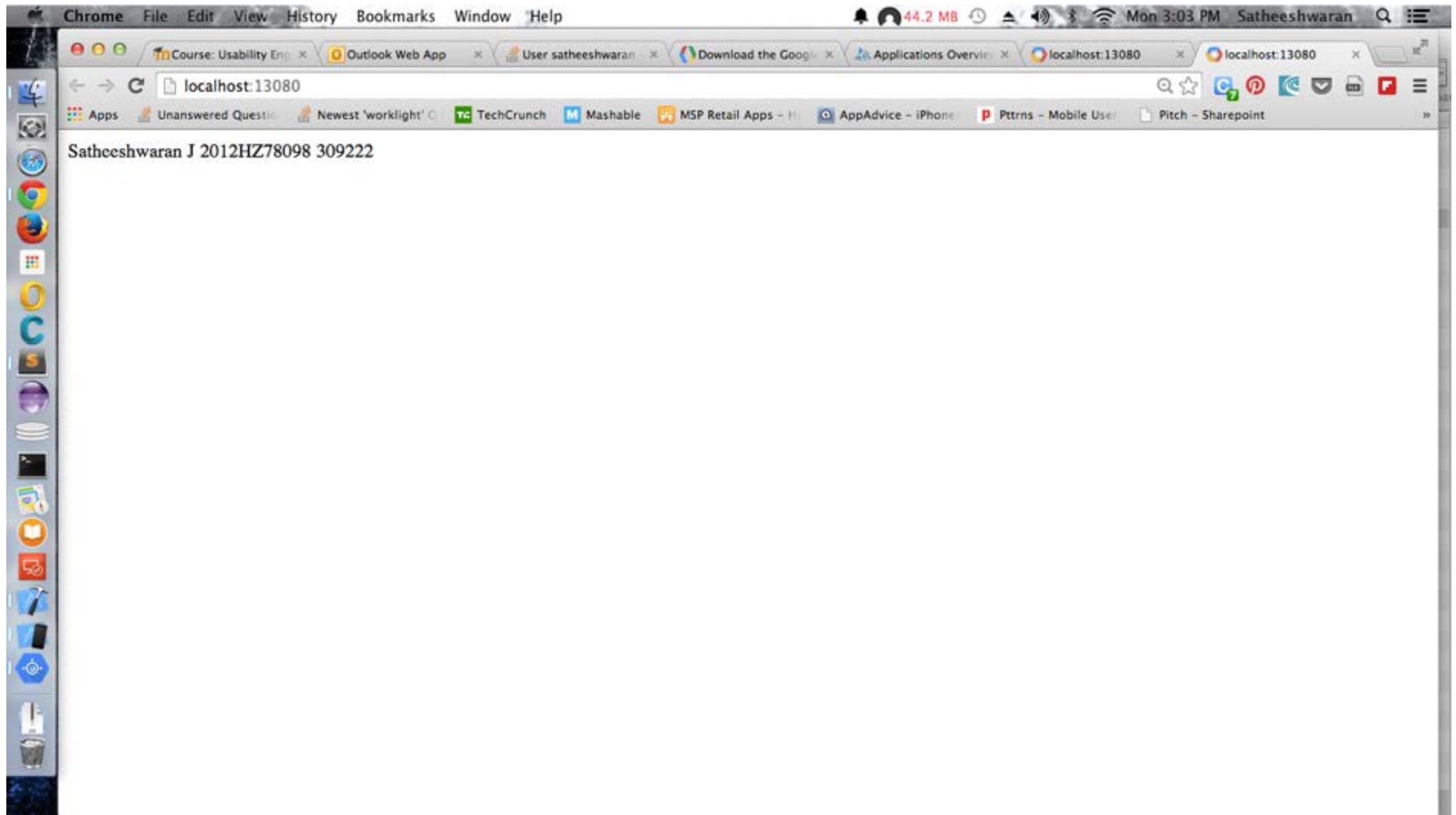
The left sidebar shows the "OPEN FILES" list with two entries: "app.yaml — satheeshwaran098" and "app.yaml — satheeshwaranj098". The bottom status bar indicates "Line 13, Column 22", "Tab Size: 4", and "YAML".

It should look like something above, now save app.yaml and run the app again.

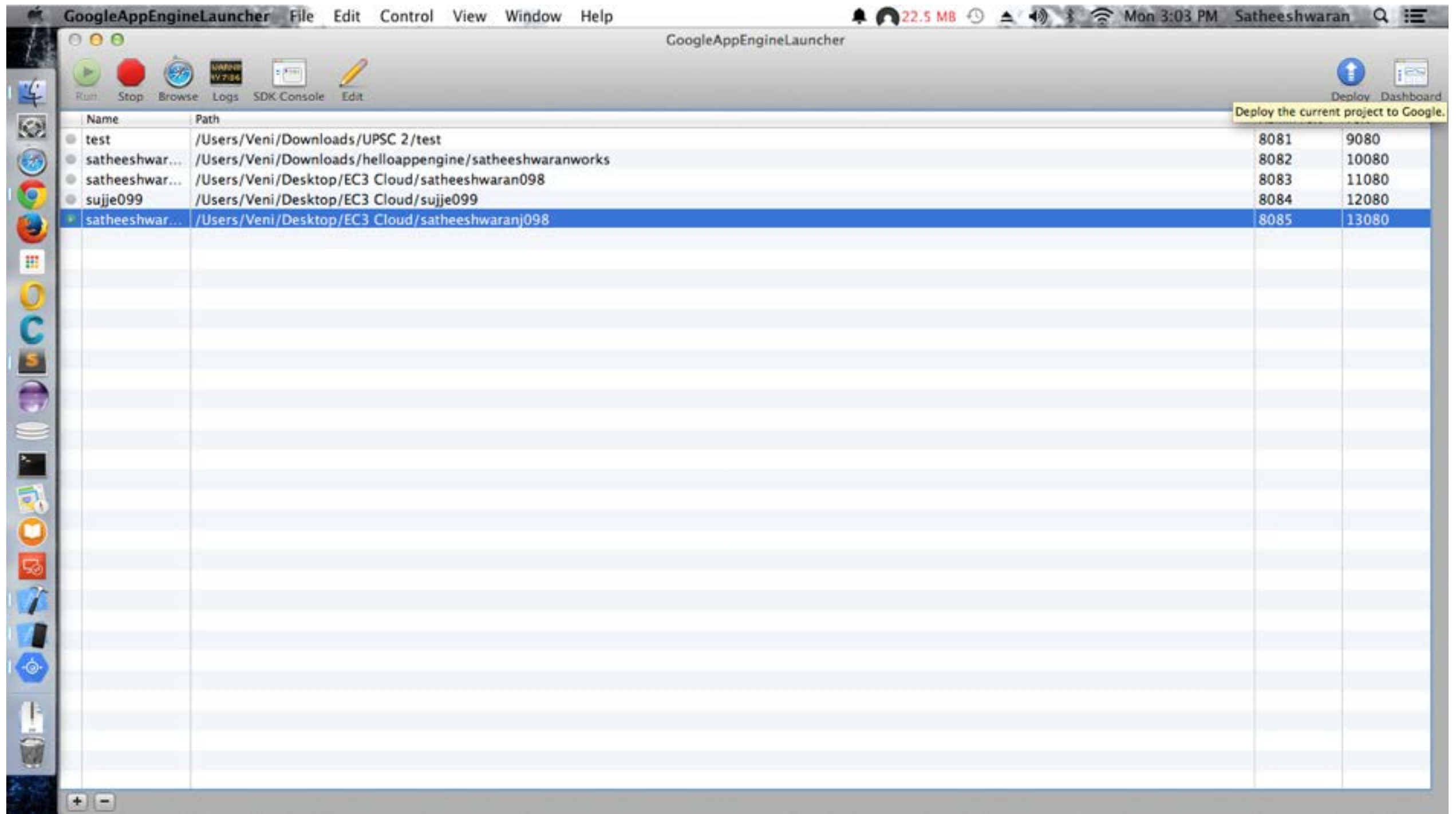


Run the app from launcher and open your browser

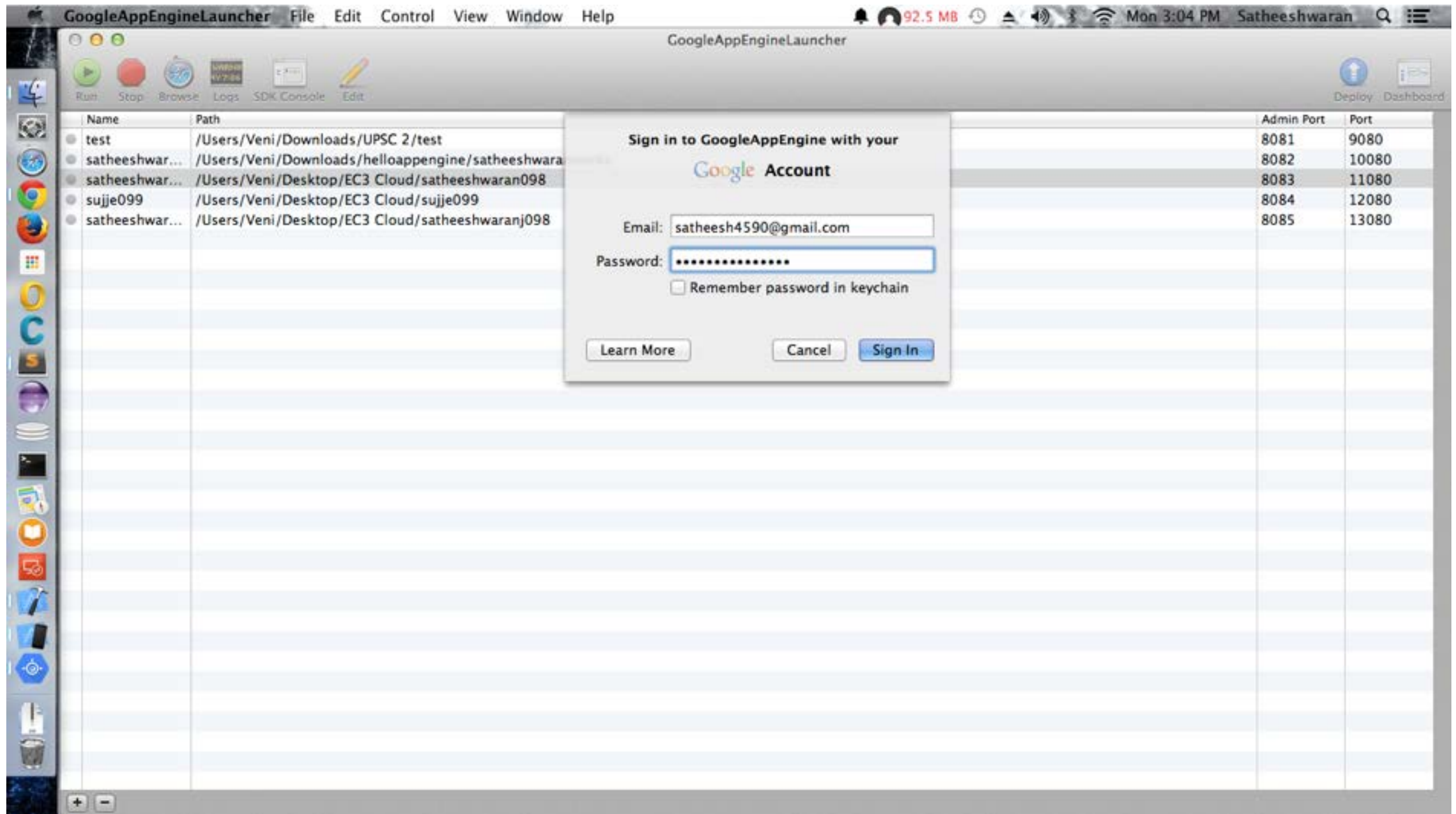




On the browser you should get the contents of details.txt, if you get this you have followed all steps perfectly and you are very close to completion(sorry for telling this earlier and dragging you with so many steps, now I am not kidding we are really close!)

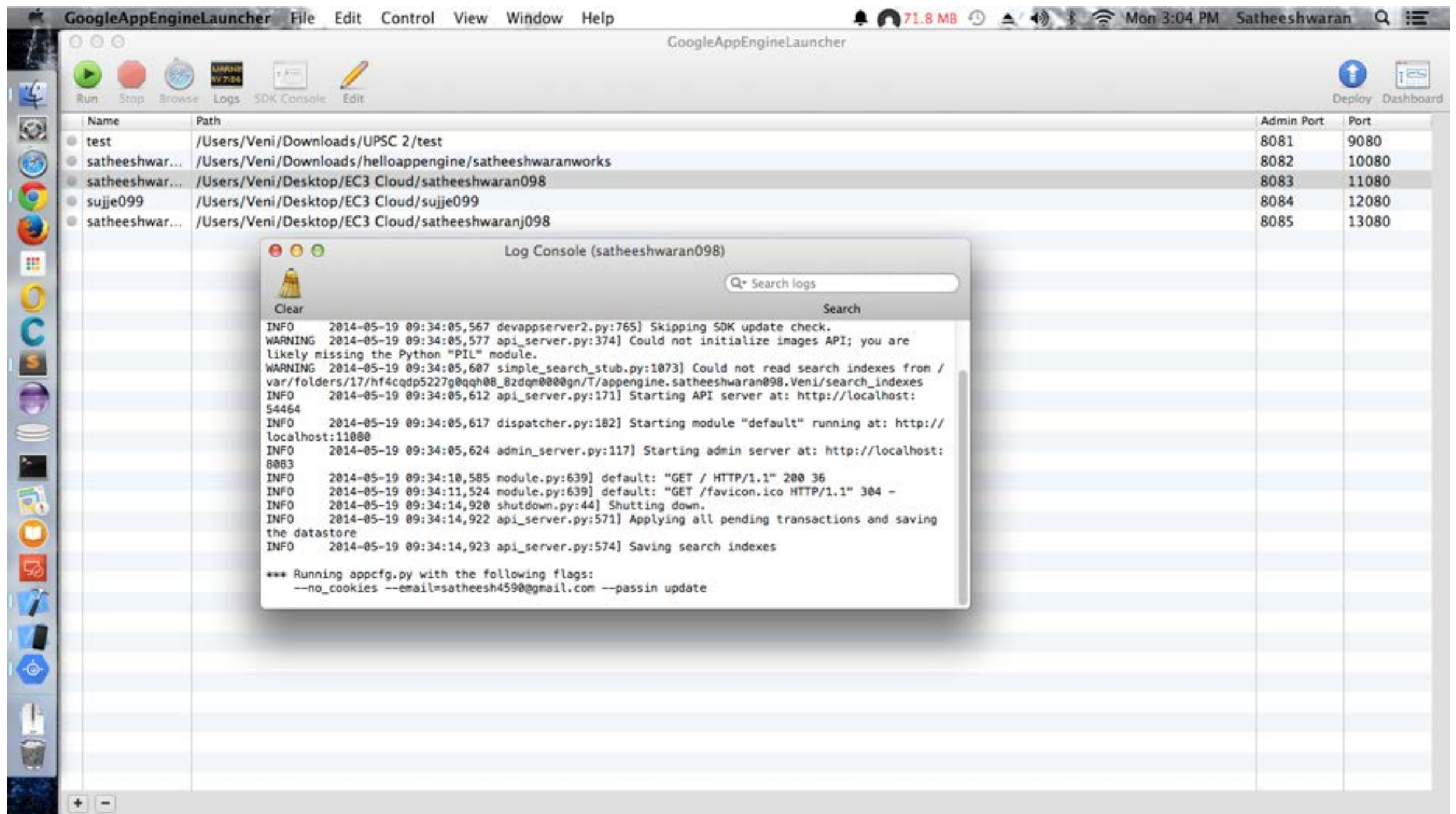


If you see on the top right you would see a button named Deploy, you can get it by right clicking also.



Now click on deploy and you would be asked to Sign in with your Google account use the same Google account that you used to create the cloud application on app engine web console.





After a successful login a Log Console opens up and it uploads all the contents to your cloud.

GoogleAppEngineLauncher File Edit Control View Window Help

GoogleAppEngineLauncher

Run Stop Browse Logs SDK Console Edit

Deploy Dashboard

Name	Path	Admin Port	Port
test	/Users/Veni/Downloads/UPSC 2/test	8081	9080
satheeshwar...	/Users/Veni/Downloads/helloappengine/satheeshwaranworks	8082	10080
satheeshwar...	/Users/Veni/Desktop/EC3 Cloud/satheeshwaran098	8083	11080
sujje099	/Users/Veni/Desktop/EC3 Cloud/sujje099	8084	12080
satheeshwar...	/Users/Veni/Desktop/EC3 Cloud/satheeshwaranj098	8085	13080

Log Console (satheeshwaran098)

Clear Search

INFO 2014-05-19 09:34:14,923 api\_server.py:574] Saving search indexes

\*\*\* Running appcfg.py with the following flags:

--no\_cookies --email=satheesh4590@gmail.com --passin update

03:04 PM Application: satheeshwaran098; version: 1

03:04 PM Host: appengine.google.com

03:04 PM

Starting update of app: satheeshwaran098, version: 1

03:04 PM Getting current resource limits.

03:04 PM Scanning files on local disk.

03:04 PM Cloning 1 static file.

03:04 PM Cloning 3 application files.

03:04 PM Uploading 1 files and blobs.

03:04 PM Uploaded 1 files and blobs

03:04 PM Compilation starting.

03:04 PM Compilation completed.

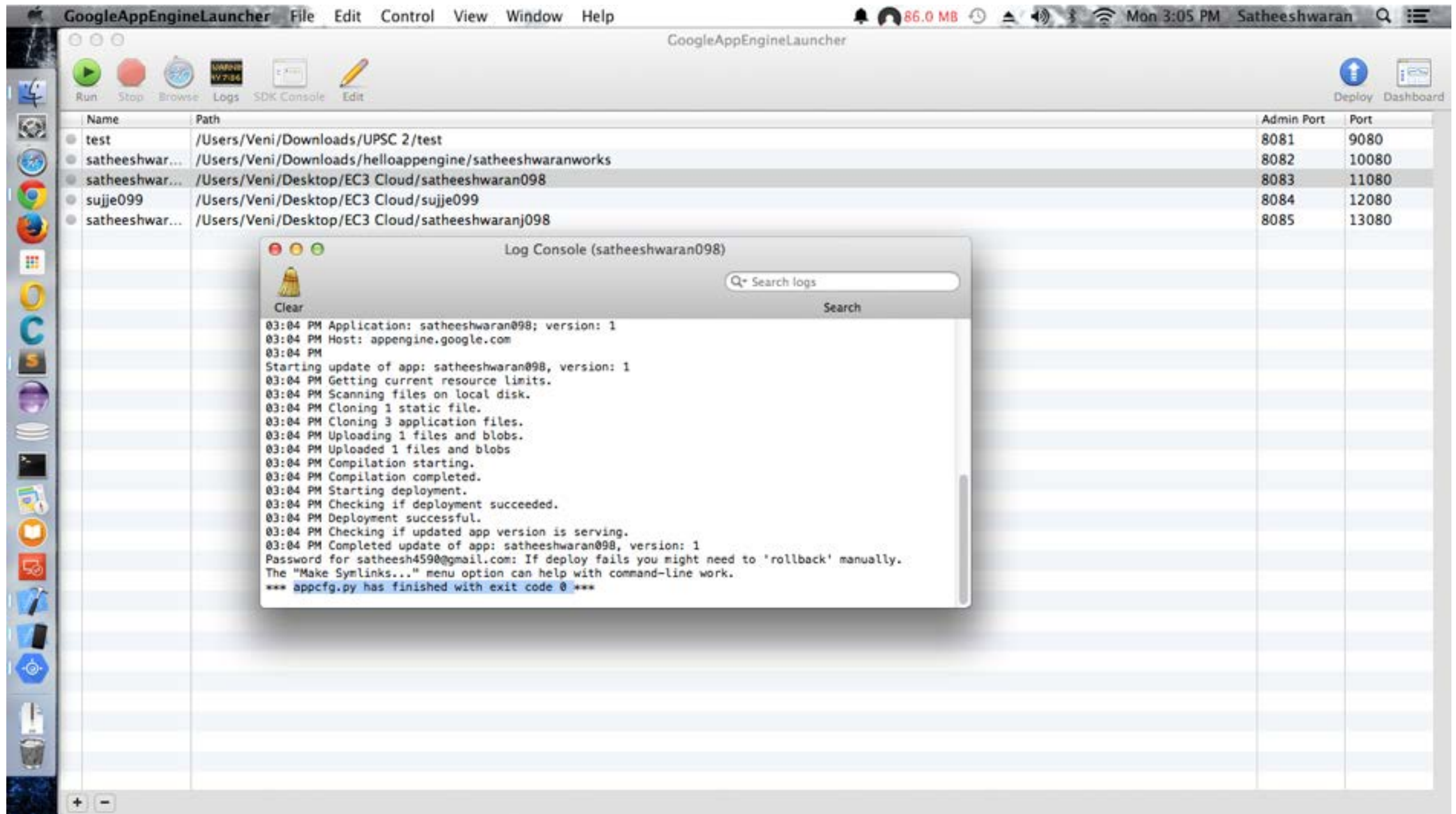
03:04 PM Starting deployment.

03:04 PM Checking if deployment succeeded.

03:04 PM Deployment successful.

03:04 PM Checking if updated app version is serving.

Loading...



When the app upload completes, you would be this message “**appcfg.py has finished with exit code 0**”, if you get this your done for good. If exit code is anything other than 0, sorry there is some problem.

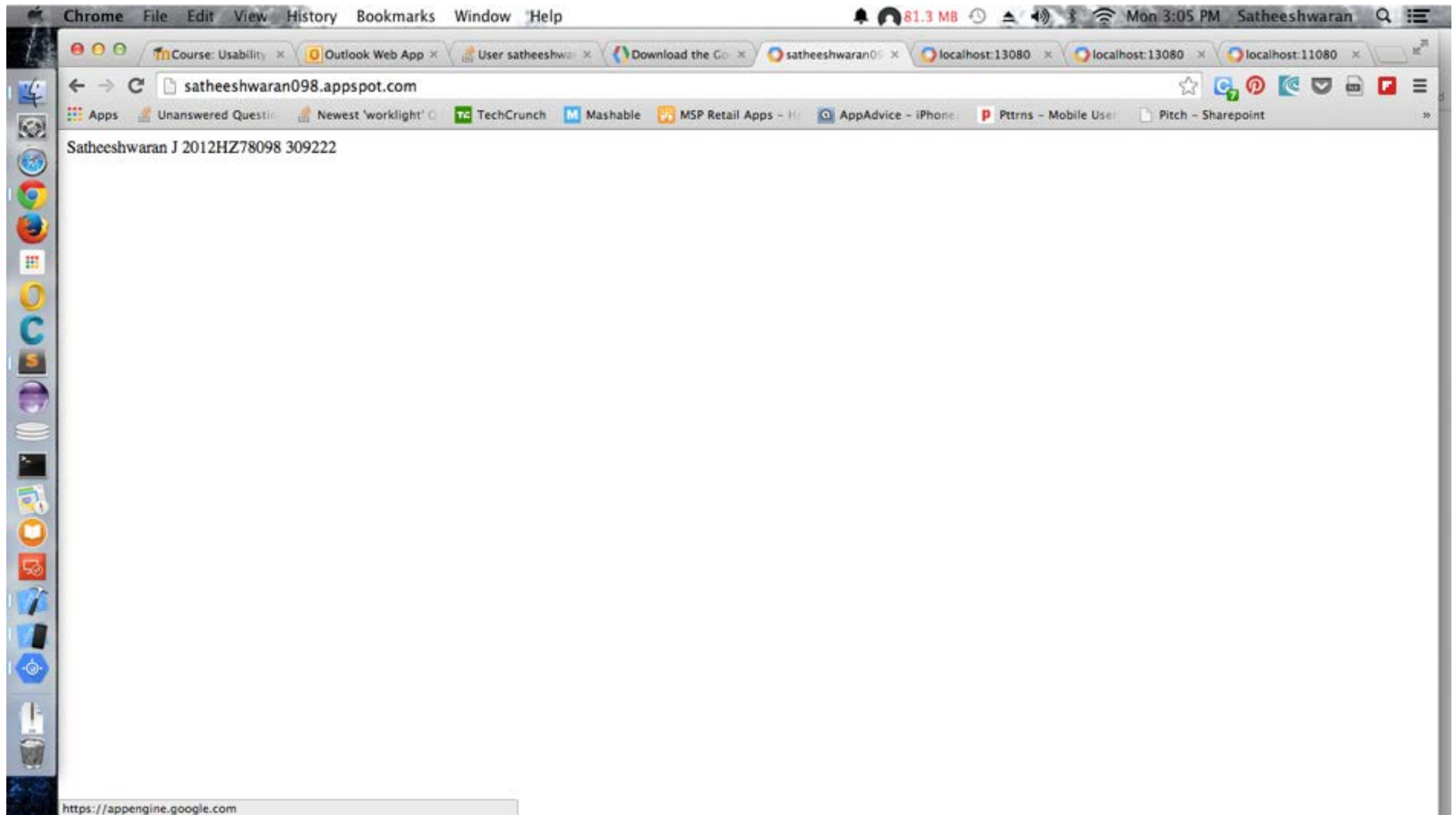


The screenshot shows the Google App Engine console interface. At the top, the user is logged in as 'satheesh4590@gmail.com'. The main section is titled 'My Applications' and displays a table of four applications. The first three are 'Running', and the fourth is 'None Deployed'. A 'Create Application' button is visible below the table. The footer shows the copyright year 2014 and various links like 'Terms of Service' and 'Privacy Policy'.

Application	Title	Storage Scheme	Status
<a href="#">satheeshwaran098</a>	satheeshwaran098	High Replication	<a href="#">Running</a>
<a href="#">satheeshwaranworks</a>	satheeshworks	High Replication	<a href="#">Running</a>
<a href="#">sujje099</a>	sujje099	High Replication	<a href="#">Running</a>
<a href="#">testingstatichtml</a>	testingstatichtml	High Replication	None Deployed

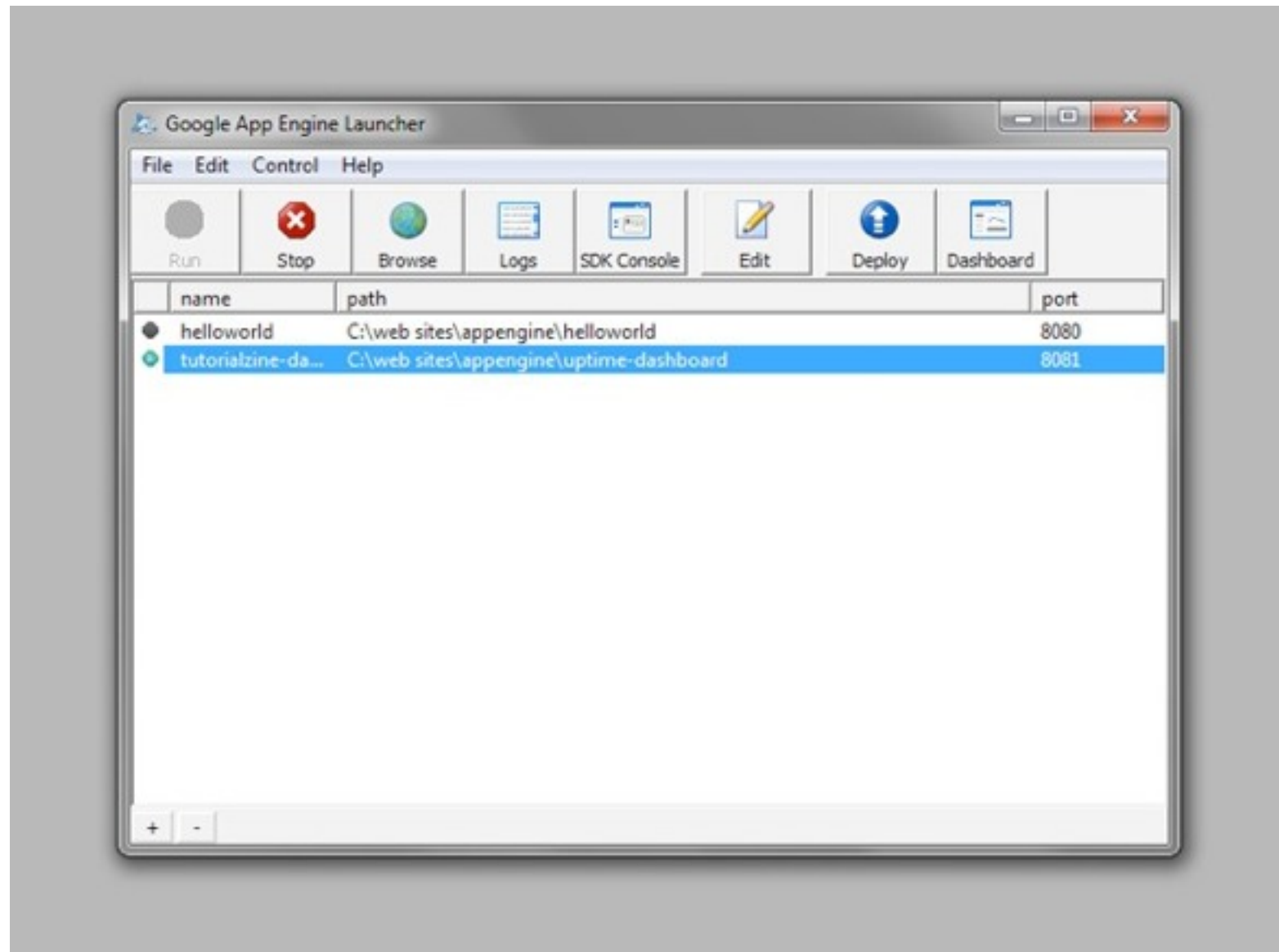
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Now let's check whether our app is visible on the cloud, go to the App Engine console. Refresh the page, the status would be **Running**. Click on the running hyperlink which will open our app, pray God everything should work fine.



Thank god if you get such a page, if you get something else check all steps for any errors or you have missed anything in any of the steps. Copy the URL in the browser and keep it somewhere safe, we will be inserting this onto a MySQL db that Prabhu wanted us to create.

## App Engine launcher on windows



This is how the app engine launcher would look like on windows

## **Disclaimer**

I cannot guarantee that you would get full marks for following all my steps. There are multiple ways of doing the same process, I found this one to be easier and I have a little experience with this. I guess I am almost right with the steps and the url is still giving me details.txt's contents. Feel free to ask me any questions with the steps, kindly forgive me for any spelling mistakes as I did this in a very short period of time. Thanks!