Project Description

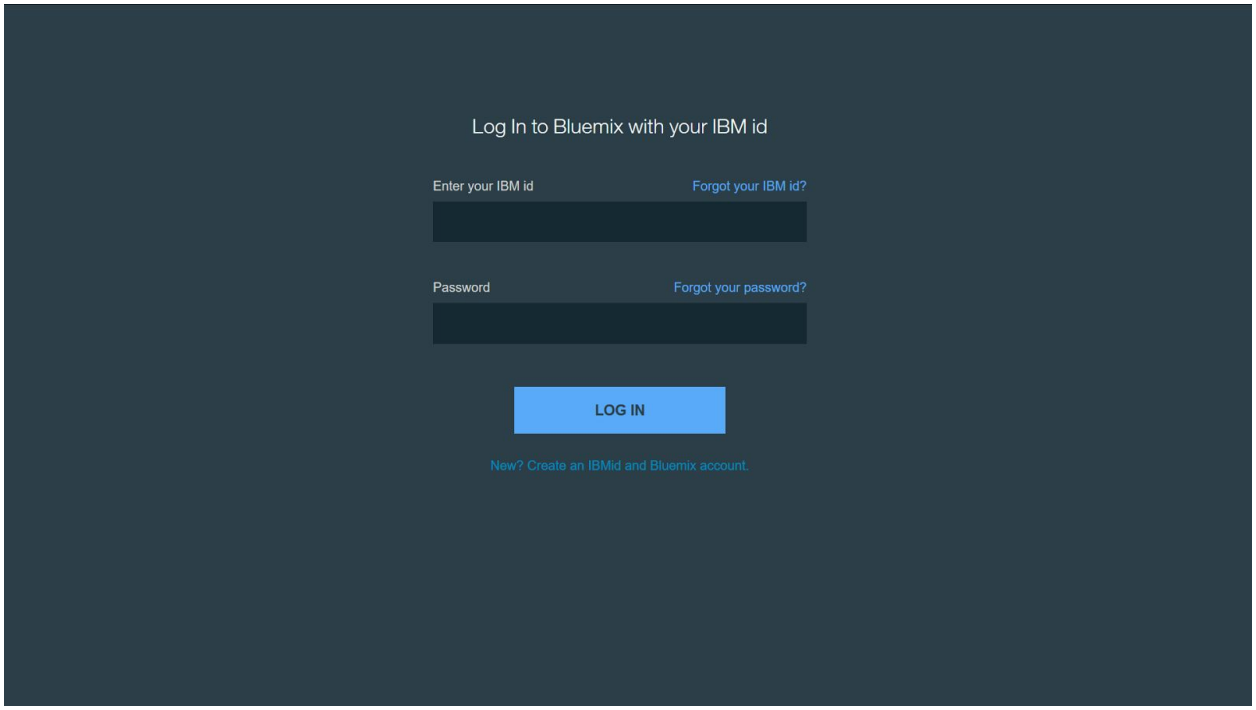
We have created an application that can be used to see weather insights of different cities around the world by using Bluemix Boilerplate and Services. It provides weather insights of 10 days. User can change option to see temperature in celsius or fahrenheit. In addition to temperature, application provides insights for humidity, uv index, wind speed, time for sunrise-sunset-moonrise-moonset also.

- **Github Link:** https://github.com/nee1/WeatherApp
- **WeatherApp link:** http://weather272.mybluemix.net/

Steps followed:

Step 1:

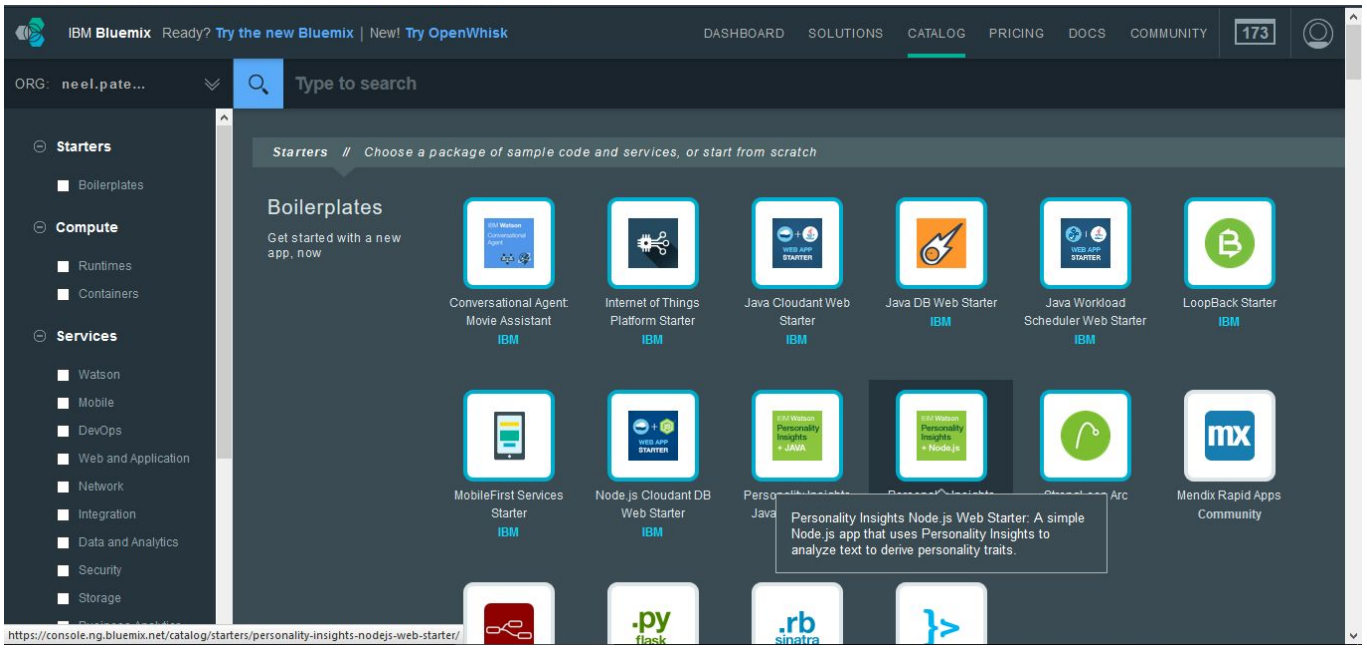
Log in to IBM Bluemix account providing IBM id and password

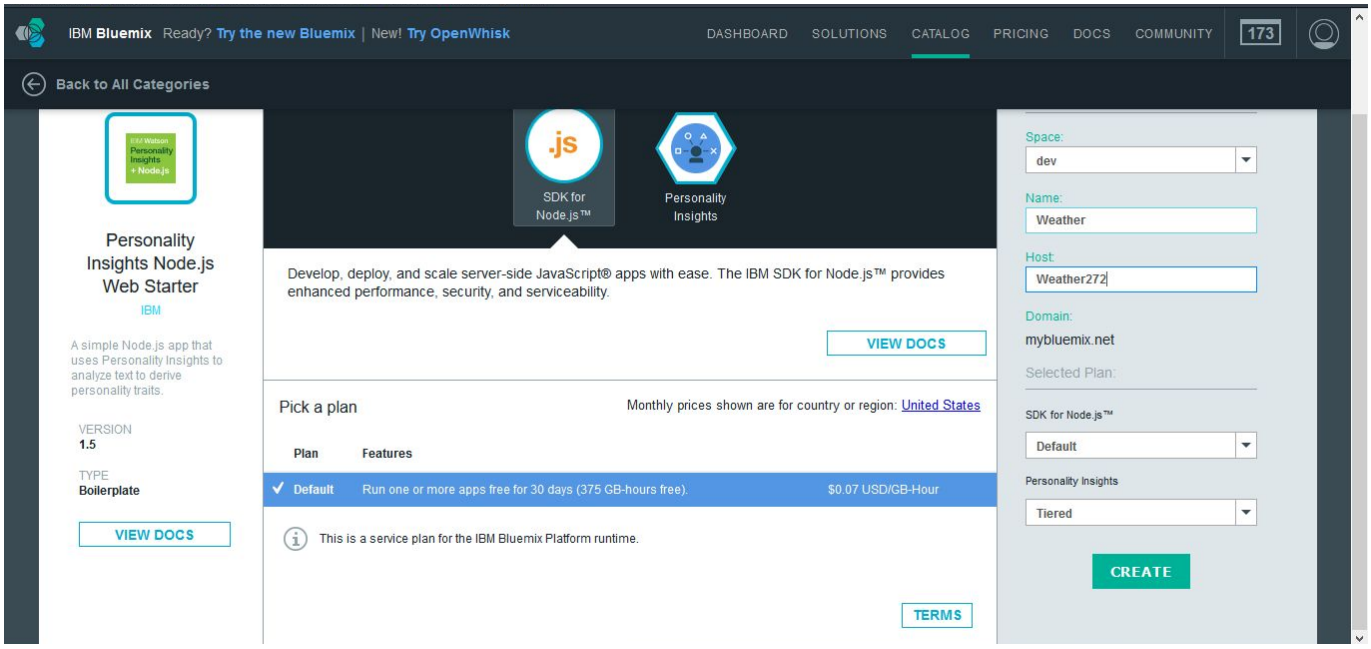


Step 2:

Select IBM Bluemix Boilerplate you want to use.

Here we have selected Boilerplate -Personality Insights Node.js Web starter. After that give name of application and host and click create.

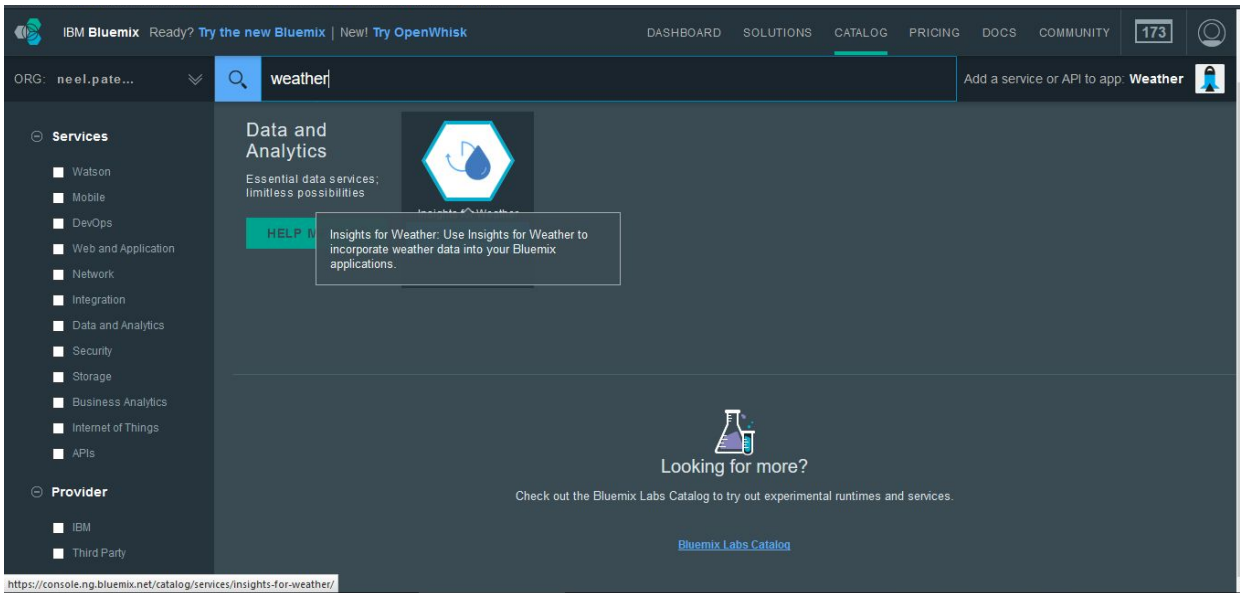




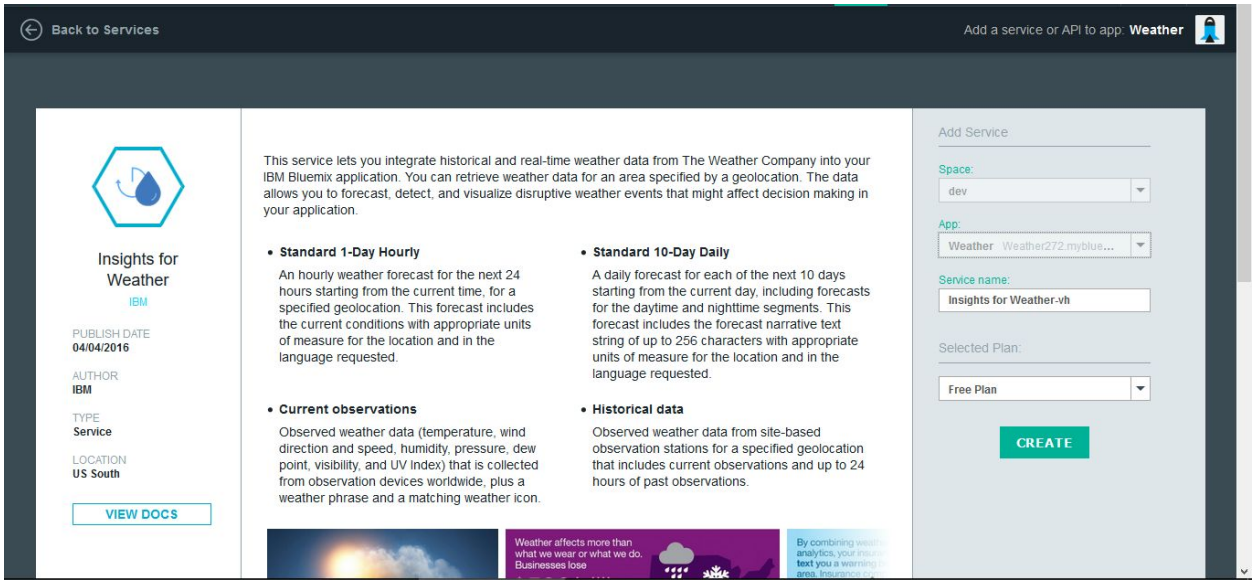
Step 3:

Add IBM Bluemix Services you want to use.

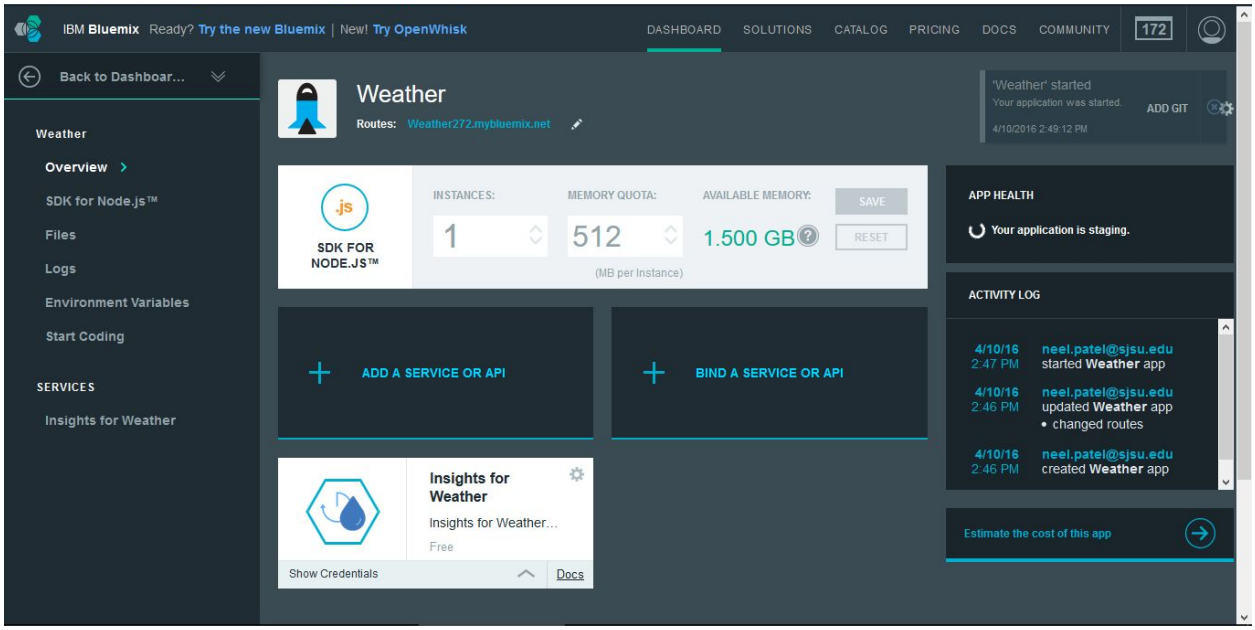
For this mini project we have added to use Data and Analytics service Insights for Weather.



After selecting services click on create button, it will create service in our instance.



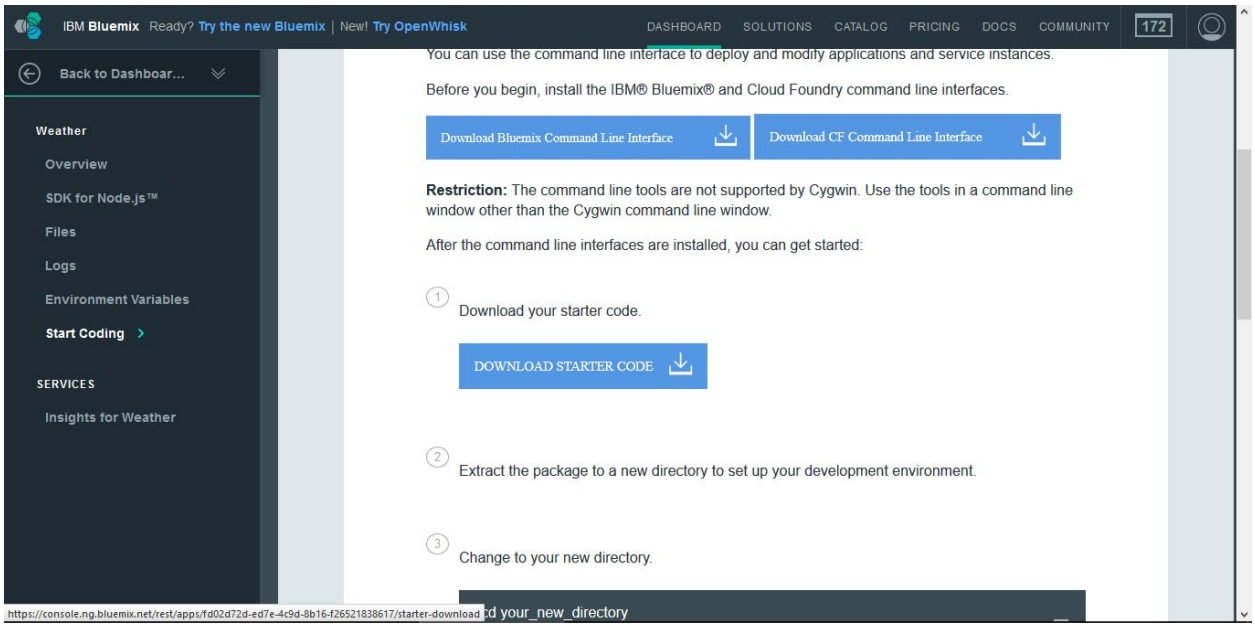
Once instance is created we can see dashboard like below.


IBM Bluemix Ready? Try the new Bluemix | New! Try OpenWhisk
DASHBOARD
SOLUTIONS
CATALOG
PRICING
DOCS
COMMUNITY
172
Back to Dashboar...
Weather
Overview
SDK for Node.js™
Files
Logs
Environment Variables
Start Coding
SERVICES
Insights for Weather
Weather
Routes: Weather272.mybluemix.net
'Weather' started
Your application was started.
4/10/2016 2:49:12 PM
ADD GIT
SDK FOR NODE.JS™
INSTANCES:
1
MEMORY QUOTA:
512
(MB per Instance)
AVAILABLE MEMORY:
1.500 GB
SAVE
RESET
APP HEALTH
Your application is staging.
ACTIVITY LOG
4/10/16 2:47 PM neel.patel@sjsu.edu started Weather app
4/10/16 2:46 PM neel.patel@sjsu.edu updated Weather app
• changed routes
4/10/16 2:46 PM neel.patel@sjsu.edu created Weather app
ADD A SERVICE OR API
BIND A SERVICE OR API
Insights for Weather
Insights for Weather...
Free
Show Credentials
Docs
Estimate the cost of this app

Step 4:

Now we can download starter code for our boiler plate from start coding menu and we can start coding.

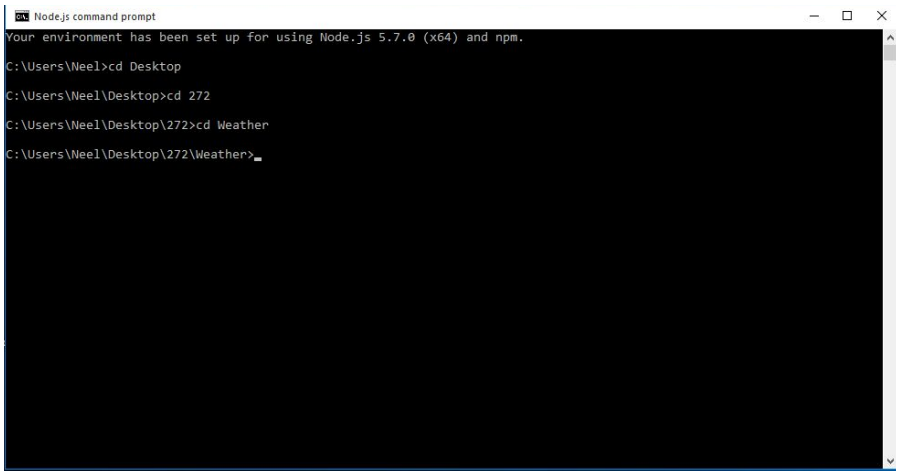
We can also download and install IBM Bluemix command line interface and cloud foundry command line interface from this menu. These command line interfaces will help us in deploying application to IBM Bluemix.



Step 5:

After making changes in the code according to our requirements, we can deploy our application through these steps:

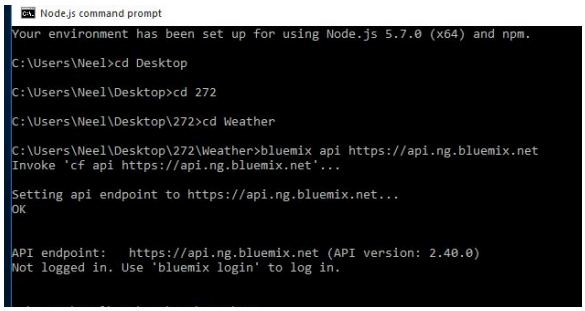
Change directory to where our project resides.



Step 6:

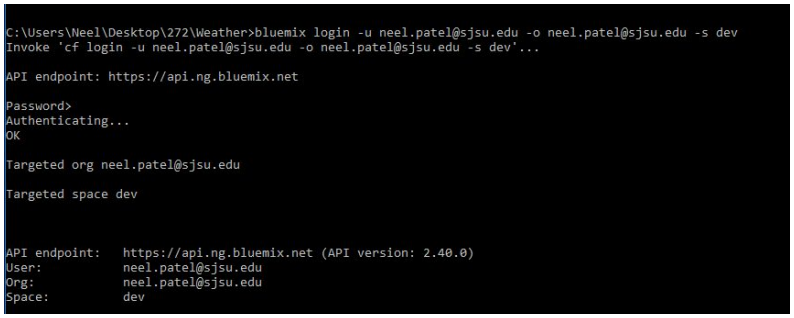
Connect and log in to IBM Bluemix from command line interface using :

$ Bluemix api https://api.ng.bluemix.net



$ bluemix login -u neel.patel@sjsu.edu -o neel.patel@sjsu.edu -s dev

//here neel.patel@sjsu.edu is username

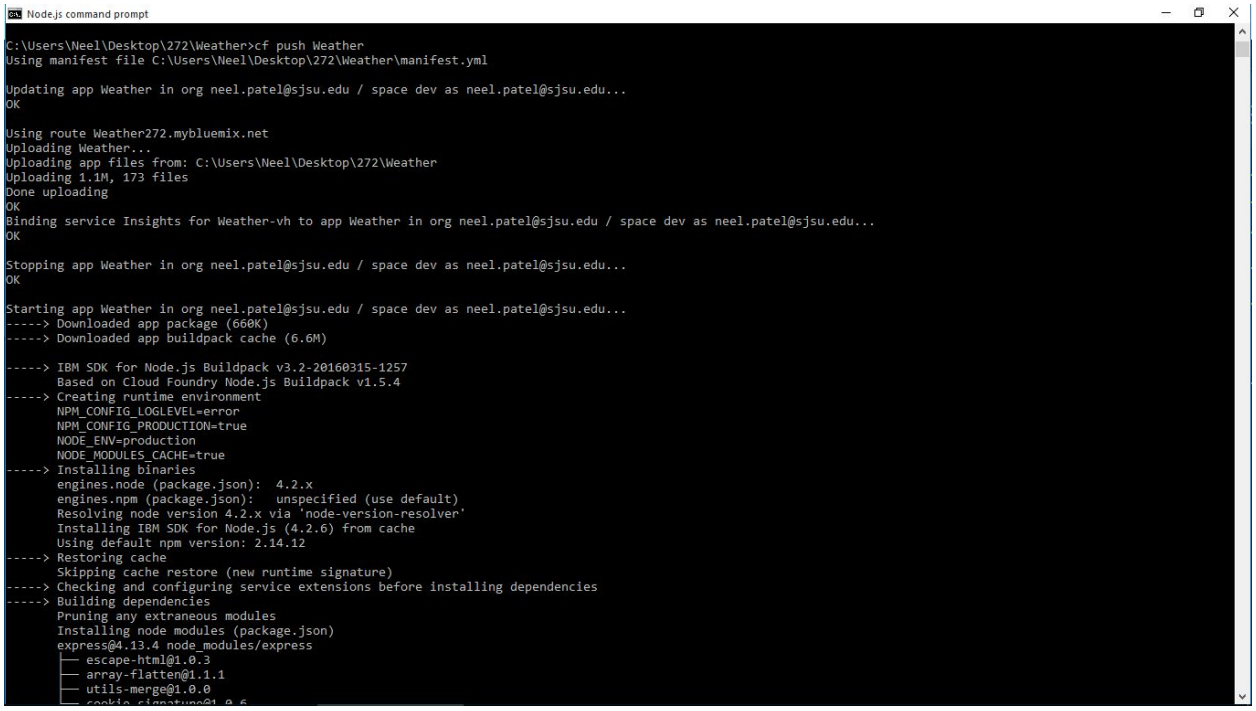


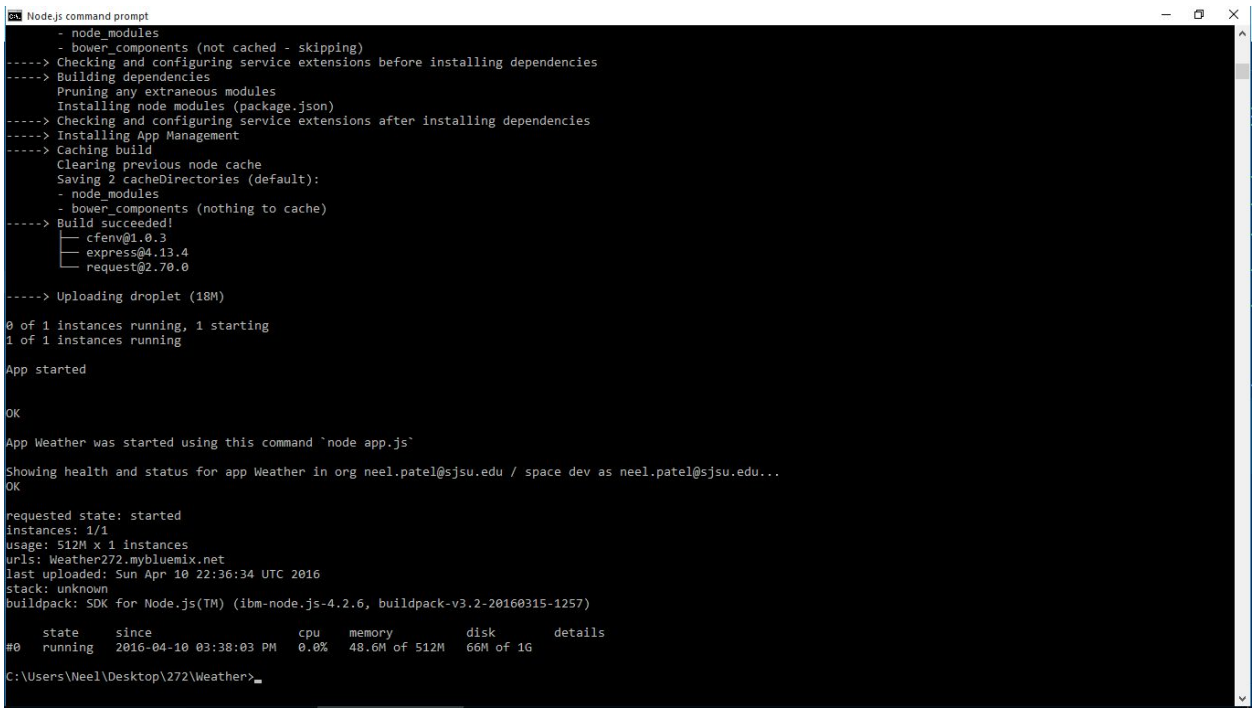
Step 7:

After that deploy your application to IBM Bluemix using this command:

$ cf push weather

//Where weather is our application's name.

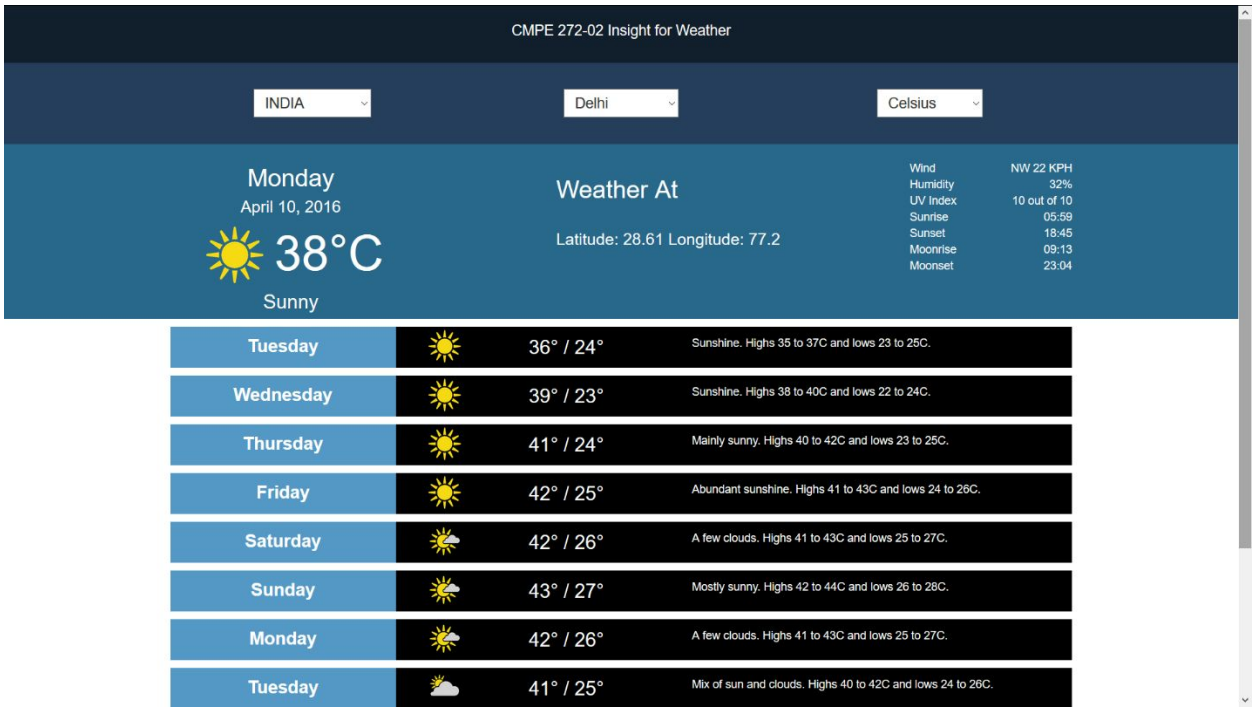




Step 7 :

Now after successful deployment we can access the application at
https://weather272.mybluemix.net/

Screenshots of running application on IBM Bluemix cloud are shown below.



CMPE 272-02 Insight for Weather

USA | New York | Fahrenheit

Sunday
April 10, 2016

30°F
Snow to Wintry Mix

Weather At

Latitude: 42.34 Longitude: -75.18

Wind	S 17 MPH
Humidity	68%
UV Index	0 out of 10
Sunrise	06:27
Sunset	19:37
Moonrise	08:56
Moonset	23:36

Monday		49° / 44°	Cloudy with rain. Highs in the upper 40s and lows in the mid 40s.
Tuesday		45° / 29°	Cloudy with morning rain. Highs in the mid 40s and lows in the upper 20s.
Wednesday		53° / 30°	Sunshine. Highs in the low 50s and lows in the low 30s.
Thursday		58° / 33°	Sunshine. Highs in the upper 50s and lows in the low 30s.
Friday		60° / 38°	Sunny. Highs in the low 60s and lows in the upper 30s.
Saturday		65° / 43°	Mix of sun and clouds. Highs in the mid 60s and lows in the low 40s.
Sunday		71° / 45°	A few clouds. Highs in the low 70s and lows in the mid 40s.
Monday		72° / 43°	Afternoon showers. Highs in the low 70s and lows in the low 40s.