

ASSIGNMENT: FUNDAMENTALS OF MOBILE & PERVASIVE COMPUTING

Assigned by: Dr. Kamran Taj



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2K17-IT-70

• "CONTEXT-AWARE SYSTEM"

Brief Intro of Assignment:

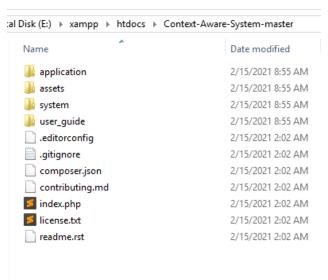
"I have designed Context-Aware system as a web service which uses mainly all 4 **CONTEXT,** namely:

- 1. Profile
- 2. Location
- 3. Weather
- 4. Time

The primary language I have used for this web service is **PHP** and its framework. I have used CSS and Bootstrap for styling. JavaScript is also used for controlling the dynamic behavior of Event Handlers. I have used the following API's/Functions for this **Context-Aware System:**

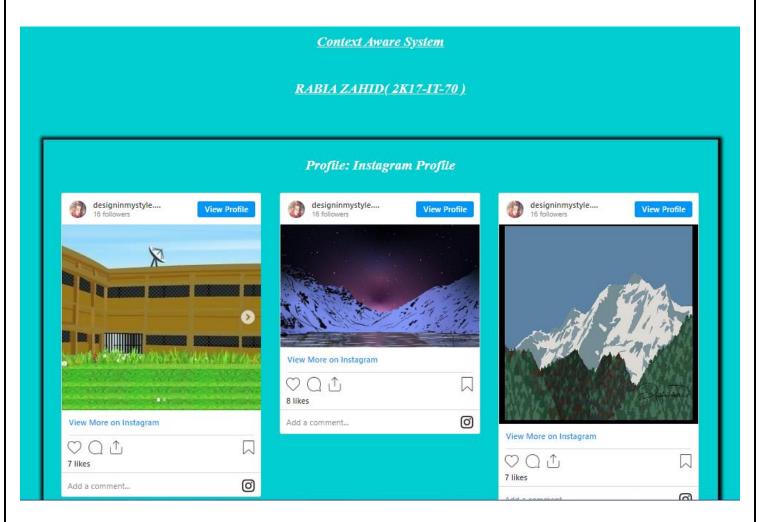
- Instagram User Profile API
- Google map Location API
- Open Weather API
- Time function of JavaScript

My Web Service Directory Structure:



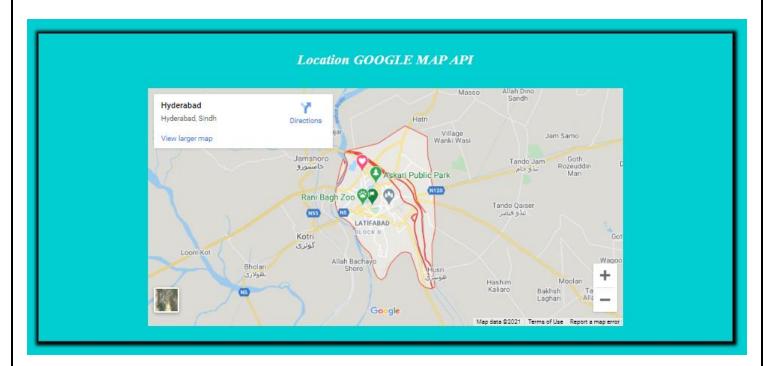
1. Using Instagram User Profile API

I have created user token via Instagram Developers Option and then given my profile link in the relatable attributes so that they display user profile and post.



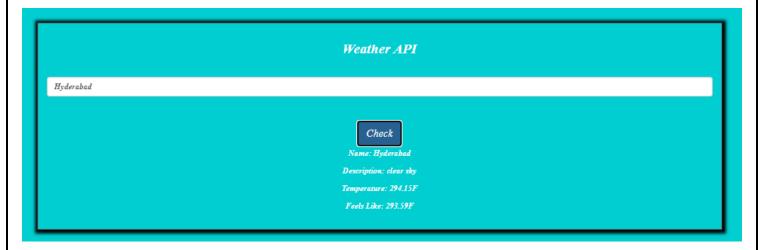
2. <u>Using Google map Location API:</u>

I have used most commonly displayed MAP's API for showing the selected location which I have given while accessing my **APIKEY** using Map's **Developer Options.** Here, I have show location of Hyderabad.



3. <u>Using Weather API:</u>

I have implemented weather API of OPEN WEATHER web service. Whenever I passes any location in the following input box, an event is generated calling the desired function for showing current weather conditions.



4. Using Time Function:

I have used JavaScript **getCityDate()** to display user's Current time and to utilize it as follows:

