**CS5590 APS – Mobile application programming**

**LAB4**

**Deadline: 11/25/2018**

The following assignment focus on to make one familiar with mobile application programming advanced topics

**Lab Assignment:**

**Create an android application having following features:**

1. **Service:** Use ***at least two*** hardware features like Location or Sensors or Media or Camera etc...
2. **API:** Use any of the Machine Learning/ Social Media related API (Except the one used in ICP3)
3. **Storage:** Use either firebase or open SQLite or file storage
4. **Layout:** Use ***at least one*** Grid Layout
5. **UI/UX Design:** The app should have a good UI/UX. Don't limit yourself to given examples and you can be more creative.

**Note:** Marks will be distributed among logic, implementation, and UI

**LAB Submission Guidelines (for both In Class and Online students):**

1. LAB submission is in pairs of two students.
2. Submit your source code and documentation to GitHub and represent the work through wiki page properly (submit your screenshots as well. The screenshot should have both the code and the output)
3. Comment your code appropriately
4. Video Submission (2 – 3 min video showing the demo of the LAB, with brief voice over on the code explanation)
5. Submit **only** report at Turnitin in UMKC blackboard
6. Remember that similarity score should be less than **15%**
7. Use this link to submit your LAB#:

<https://goo.gl/forms/HShoVqcBOEyD2YOC3>

1. Report should include below details
2. Introduction
3. Objectives
4. Approaches/Methods
5. Workflow
6. Discussion
7. Conclusion

**LAB Evaluation Criteria:**

1. Report similarly score (should be less than **15%**)
2. Report Quality (e.g. report - <https://github.com/stratospark/food-101-keras>)
3. Time (should submit before due time)
4. Wiki page

**Example Reports:**

<https://github.com/stratospark/food-101-keras>

<https://github.com/matterport/Mask_RCNN>

<http://blog.stratospark.com/deep-learning-applied-food-classification-deep-learning-keras.html>

**University Policy on Student Conduct:**

Cheating, plagiarism, disruptive behavior and other forms of unacceptable conduct are subject to strong sanctions in accordance with university policy. See detailed description of university policy at the following URL: <https://catalog.umkc.edu/special-notices/academic-honesty/>

<https://www.umsystem.edu/ums/rules/collected_rules/programs/ch200/200.010_standard_of_conduct>