IT Systems course project demonstrations (October 7th, 2017)
Note to resource persons

Each group is implementing two websites as described below. Please ask them to demo the 6 highlighted sub-tasks given below and let me know your feedback about each sub-task. E.g. Outstanding (A), Good (B), OK (C) and Bad / Demo not shown (D). Please also give feedback on any extra sub-tasks the groups may want to demo.

1) Website 1: It contains a database with following information:
    a. Households
        i. Longitude and Latitude; Total monthly income
        ii. Name/Gender/Age of each member; Family/House/Other photos; Interview audio clips
    b. Farms: Each household can have 0, 1 or more farms.
        i. Longitudes and Latitudes, Total area
        ii. Season-wise cultivated area under different crops, Photos, Audio clips
    c. Wells: Each farm can have 0, 1 or more wells.
        i. Longitude and Latitude, Depth, Average water yield
        ii. Date-Time-wise observed water yields, Photos, Audio clips
2) Website 2: It does the following:
    a. Obtain data about households, farms, wells from website 1 (using REST architecture).
    b. Show these features as a map in a browser using appropriate legend.
        i. **Sub-task 1:**
            1. Add (or delete) data about a household, farm or well in the database of website 1.
            2. It should (almost automatically) appear (or disappear) in the map on website 2.
    c. Whenever user clicks on a feature, show its attributes: photos, audio clips and text attributes.
        i. Sub-task 2:
            1. Modify text attributes of a household, farm or well in the database of website 1.
            2. Click on it in the map of website 2. Modified text attributes should show.
        ii. **Sub-task 3:** Click on a feature that has at least one photo attribute field populated. The photograph(s) should show along with text attributes.
3) Enhance visualization of various features in above maps in the following way:.
    a. **Sub-task 4:** 3D visualization of wells: Show each well as a column/hole in 3D. Its length should be proportional to well depth. Color should be proportional to average water yield.
    b. **Sub-task 5:** Farm-wise visualization of crops and their areas: On each farm, show a pie chart that displays one sector for each crop grown on that farm. Each sector's color and area are indicative of what crop they represent and what % of that farm area is growing that crop.
    c. **Sub-task 6:** Visualization of households: Show each household as a large dot. Its diameter should be indicative of the family size and color of its income.
4) Extensions: **Any extra sub-tasks the groups may want to demo e.g.**:
    a) Virtual Reality (VR)? b)Augmented Reality(AR)? c) Mobile updates/views?
    d) Gamification? e) Others?