PAF – Karachi Institute of Economics and Technology
Design Patterns
BS CS Fall 2019

INSTRUCTIONS
- **This project covers 15% of the total weightage (tentative).**
- **Each of the milestones mentioned below holds some weightage. Neglecting any of them will cause some deduction in marks.**
- **All the diagrams must be designed using a UML tool (StarUML, rational rose etc.).**

Milestone#1: till 19th September, 2019 (Available slot)

1. **Project Proposal containing:**

   a. **Project's description.**

   b. **Group Members (three) along with student and class Ids.**

   c. **Name of six (two from each category) Gof design patterns to be leveraged. (Read book for description.)**

2. **Initial class diagram of the project showing every static detail of the project.**

Milestone#2: week after mid (tentative)

Midterm Evaluation comprising:

1. **Complete class diagram of the project (before applying design patterns) showing every detail of the project.**
   a. **Code according to the class diagram.**
2. **Implementation of three (one from each category) design patterns.**
   a. **Purpose of using each pattern. (i.e. the problem statements).**
   b. **Class diagram(s) after applying the design patterns.**
      i. **Class diagram(s) must depict the use of the chosen patterns. (i.e. the solutions through chosen patterns)**
   c. **Code according to design for all three patterns.**
3. **Viva related to the three patterns and project.**

Milestone#3: 18th November, 2019 (tentative)

Final Evaluation comprising:

1. **Complete running project along with the improved or same class diagram.**
   a. **Code must completely follow the class diagram.**
2. **Implementation of the remaining three design patterns.**
   a. **Purpose of using each pattern. (i.e. the problem statements).**
   b. **Class diagram(s) after applying the design patterns.**

        i.   **Class diagram(s) must depict the use of the chosen patterns. (i.e. the solutions through chosen patterns)**

    c.   **Code according to design for all patterns.**

3.   **Viva related to the whole course.**