# ICSI 405 Final Project

## Design and implement an object oriented model

You will propose a project idea yourself and continue through the project following the activities in the table below with your assigned TA’s guidance and inputs. An example of the model will be discussed in class

### TABLE 1: Timeline

|  |  |  |
| --- | --- | --- |
| 1 | Send the TA a one liner description of the OO model you want to implement  Things to keep in mind while proposing the idea:  o Need to demonstrate all of below:  ♣ Inheritance  ♣ Composition  ♣ Use of at least 2 design patterns that were taught in class(no forced usage)  ♣ Polymorphism  ♣ Generics  ♣ Enums if applicable | 11/24/2017 |
| 2 | Send the TA your design:   * What classes, interfaces, abstract classes will you implement, what data structures you will use and why * UML diagrams (can use openly available tools or use MS Visio if available free from college) * The methods you will implement (include in your UML). You can add more methods later | 11/30/2017 |
| 3 | * Implementation submission on blackboard * Word document (report) of your design and implementation | 12/09/2017 |

## Grading

### TABLE 2: Grading breakup

|  |  |
| --- | --- |
| Choice of topic | 10 |
| UML diagram | 15 |
| Project overall design, use and choice of data structures | 20 |
| Implementation | 45 |
| Comments and documentation | 10 |
| No deadline miss | 5 |
| **Total** | **100 + 5 bonus** |

## TA assignments

Refer to excel doc on blackboard

## Guidelines

1. You can only correspond to the assigned TA for final project related tasks. For anything else, you are free to talk to all of them
2. Email guide for this project (STRICTLY FOLLOWED)
   1. Subject: CSI 405 Final Project
   2. Send to
      1. If proposing project idea send email to ALL TAs
      2. If asking question, just send to your assigned TA
      3. Once topic is approved you may just communicate with your assigned TA
3. All the deadlines where approval is needed, will be considered strictly. For example, if the TA rejects your idea on the last day, you need to get the new idea approved before the deadline. Now you cannot assume that the TA will be awake all night waiting for your email. So please consider this approval overhead. In short, do it earlier rather than scrambling when you near the deadline.