Project Requirements

1. The project shall consist of:

- a. Groups of 2 or 3 students. In the Summer 2021, it is individual project
- **b.** At least 4-6 Views (one or two per team member you may use storyboard)
- At least 2-4 classes (one or two classes per team member) other than view controller classes
- **d.** You may choose any project you wish, such as a game, utility, or tool. But it must have some purpose. Consider creating an app that you would want to use or you can create a clone app.

2. Project shall make use of the following technologies/techniques:

- a. View Controllers (such as Navigation Controllers, Tab Controllers etc.)
- b. Data Structures (Custom classes, Dictionary, Arrays)
- c. The following Swift language features:
 - i. Array and or Dictionary
 - ii. Table's
 - iii. SpriteKit (this is for gaming but part of course outline)
 - iv. MapKit (for location and maps)
 - v. Core Data for data persistence
 - vi. Remote Database using JSON, MySQL & PHP (Optional)
- d. Commenting: The code shall be commented according to the following requirements
 - i. Each class shall have a header with the principal author of the code and a short description of what the code in the file is for
 - ii. Each method and property shall be commented and include a brief description of the purpose of method and property. If the author of a method is different than the author of the class, then author name shall also be included in method headers
 - iii. The code (inside methods) shall be commented to explain WHY the code is there (not how, not what) wherever necessary.

e. Coding Conventions:

i. Naming conventions and guidelines must be consistent as used in classes.

3. Work assignments:

a. Each Swift class shall have only one author out of the group. "We all worked on it together" is not acceptable as that would never happen in a professional team project. As a team you collaborate but each team member must take ownership and responsibility of a piece of the code. You will be graded individually based on your contribution.

iOS Mobile App Project- COMP2125

- **b.** The author shall be clearly documented in each source file. Again, multiple authors in a single file not acceptable.
- **c.** The work assignments must be consistent with the original project proposal even if minor differences exist AND they must be updated in the project completion document.

4. Project Updates

- a. Each team will provide periodic updates on their progress I will announce in class at any time asking for an update during class. You must demonstrate some progress to receive a mark for your progress report.
- **b.** These updates are part of the final project grade

5. Project Presentation

- a. Present the purpose of the application
- b. Present a high-level overview of forms and classes used in the application
- **c.** Demo the application functionality. Each student in the group shall demo the functionality he/she worked on
- **d.** Present briefly the technologies used in the application (follow the list of requirements given in point 2.
- 6. Penalties these apply to overall project grade.
 - a. 30% for not submitting a proposal.
 - **b.** 20% for not having minimum group size / attempting to do project alone.
 - **c.** 50% for not presenting project.

See next page for project deliverables deadlines.....

Project Deliverables Deadlines

The development plan is organized in 5 milestones. The completion of each milestone will be verified and will count in the final grade of the project. **Due time and date is Mid-night Sunday of that week.**

1. Week 7: Project Start - Proposal Due at the end of week 7

2. Week 9: 25% complete

3. **Week 10**: 50% complete

4. **Week 11**: 75% complete

5. Week 12: Project Presentation and Delivery. Before project presentations the project completion document must be handed in.