# **Project Description**

**Spring 2020**

Choose any project topic from the following list. Once you select the project, you are responsible for coming up with the all aspects of the software, including functionality, user interface etc.

1. A software that performs on-line reservation tasks for an airline called Fly’s R US co. Some functions of the software include: reserve, cancel, review, change and generate some type of reports for the managers. The confirmation should be sent to the traveler.

2. A software that performs simple E-commerce site for a “abc” sales Company. The functions include searching for an item, order, including shipping methods, pay an item using credit card etc, etc. A confirmation of the purchase should be sent to the user’s email address.

3. Special Topic: submit your topic first before you start.

**Project Activities:**

**Choose about 5 most “important/essential” features of your project topic and**

The project is to analyze, specify, design, implement, test and demonstrate a software system.

Thus, it involves the following steps, and, in each step, there will be **documentation templates** your group will need to complete.

The steps are:

Step 1: Requirements of the project

Analyze the problem and discuss the functional, performance and any other requirements

That your project will satisfy

Step 2: Specification (Modeling) of the project

Write the specification of your project based on your requirements using Classical and

OO Methods

Step 3: Design of the project

Write the design of your project based on your specification using Classical and OO

Methods

Step 4: Implementation

Implement the software using the implementation language of your choice.

Step 5: Testing

Use the testing methods for unit, integration and validation tests.

Step 6: Operation (User Manual)

**Final deliverable will have the following format:**

**Final Project Due: April 27**

**Cover page (name of the project & the participants)**

1. Table of the Content **(use MS TOC feature)**
2. Chapter 1
3. Chapter 2
4. Chapter 3
5. Chapter 4
6. Chapter 5
7. Chapter 6

Appendix A: Group meeting reports

Appendix B: Source Code

Group Meeting report must be submitted every Wednesday by 10:00am (end of class) via titanium. Only one member of the team needs to submit the group meeting reports, each report must be submitted by a different member.

Phase 1 Due: **March 15 at 11:59pm**

Chapter 1, Chapter 2.

Final Project Due: **April 27**