**Software Engineering Challenge**

**Requirements**

Describe the challenge or problem, what does the program need to do

What classes/objects do you think you need?

How much time do you think you will you need to complete the project?

The goal is to create a city scape

Must have:

* a building class, multiple buildings
* a main class, ex: city
* extra: other classes
* one animation

**Research**

What knowledge or skills will you need to build this program

What examples are online or in other graphical programs (games, apps etc. . .)

If so, what can you learn from them?

Do you foresee any problems or constraints, describe

Have you created a similar programs or applets? Are there similar programs in the book or other resources?

If so, what elements of that project can you bring to this project?

Do you have the resources you need to create the program?

Do you need to learn any new knowledge or skill(s) to create the program?

**Design**

Draw/create a basic graphic of the applet you plan to build - attach the drawing

(paint, word, photo shop) not every objet (draw one example although there may be several in the final program) needs to be in the basic graphic

Include a task list--what will you need to do and in what order

Estimate the amount of time you will need to complete the project

**Construction – included in summary doc**

Document your construction progress with date and progress made (build a chart/table in word or excel), also, include at least three screen shots of your applet (beginning, middle, and end)

**Testing/Results/Delivery—summary doc not required to start project**

Preliminary testing

Does your program meet the needs of the initial challenge or problem? How do you know?

Are any changes or modifications needed, why or why not? Document any changes.

Summarize the project - what worked, what didn’t work, note your successes and/or failures.

Looking back, would you have done anything differently, why or why not

Software Summary Document

Daily Progress Report

|  |  |
| --- | --- |
| Date | Description |
| January 16, 2017 |  |
|  |  |
|  |  |