Pretend that the Career Services office at your university wants to develop a system that collects student resumes and makes them available to students and recruiters over the web. Students should be able to input their resume information into a standard resume template. The information is then presented in a resume format, and it also is placed in a database that can be queried using an online search form. You have been placed in charge of the project. Develop a plan for estimating the project (briefly describe your inputs, outputs, etc.). How long do you think it would take for you and three other students to complete the project?

Inputs would be the fields of the Resume form, queries would be all major form headings, and outputs would be a list of matching resumes and the full resume.

## Inputs

- 1. Main Resume Template Page (Data Set 2)
  - a. Campus Student Id
  - b. Name
  - c. Address 1
  - d. Address 2
  - e. City
  - f. State
  - g. Zip Code
  - h. Phone
  - i. Cell Phone
  - j. Fax Number
  - k. E-Mail
  - 1. Objective
  - m. Summary Of Experience
    - i. First Bullet
    - ii. Second Bullet
    - iii. Third Bullet
    - iv. Fourth Bullet
    - v. Fifth Bullet
  - n. Technical Expertise:
    - i. Field 1
    - ii. Field 2
    - iii. Field 3
    - iv. Field 4
    - v. Field 5
    - vi. Field 6
  - o. Education
    - i. High School
      - 1. Address
      - 2. Graduate
    - ii. College
      - 1. Address
      - 2. Graduate
    - iii. College

- 1. Address
- 2. Graduate
- iv. College
  - 1. Address
  - 2. Graduate
  - v. College
    - 1. Address
    - 2. Graduate
- p. Experience:
  - i. Job 1
  - ii. Job 2
  - iii. Job 3
  - iv. Job 4
  - v. Job 5
  - vi. Job 6
- q. Activities
  - i. 1
  - ii. 2
  - iii. 3
  - iv. 4
  - v. 5
  - vi. 6

## Query: search by

- 1. Name
- 2. City
- 3. State
- 4. Zip Code
- 5. Technical Expertise
- 6. Education
- 7. Experience

## Output

- 1. Introduction Home Page University logo with hyperlink to entry/edit screen
- 2. List of instructions and suggestions on how to fill out resume form and sample document
- 3. Check Formatted Resume with hyperlink to entry/edit screen
- 4. Summary List of Resumes that match Query by Name
- 5. Complete Resumes
- 6. Help Screen

Files:

1. resume database file

Function Point Estimation:

		Complexity		
Description	Low	Medium	High	Total
Inputs	x 3	x 4	_1x 6	_6
Outputs	4_ x 4	_2x 5	x 7	_26
Queries	_6_ x 3	x 4	_1_x 6	_24
Files	x 7	x 10	_1x 15	_15
Program	x 5	x 7	x 10	
Interfaces				

Total Unadjusted Function Points (TUFP): \_\_\_\_71\_\_\_\_

(0=no effect on processing complexity; 5=great effect on processing complexity)

Data communications	1
Heavily use configuration	_1
Transaction rate	_1
End-user efficiency	_1
Complex processing	_1
Installation ease	_1
Multiple sites	_0
Performance	_3
Distributed functions	_0
On-line data entry	_2
On-line update	_1
Reusability	_1
Operational ease	_1
Extensibility	_0
Processing Complexity (PC):	14

Adjusted Processing Complexity (PCA) = 0.65 + (0.01 \* \_\_\_\_\_14\_\_\_\_)

Total Adjusted Function Points (TAFP):

<u>0.79</u> \* <u>71</u> = 56.09

Choose to use JAVA and HTML to do the implementation JAVA: 80%, HTML: 20%

LOC = 55\*80%\*56 + 15\*20%\*56 = 2632

Effort in person Month (EPM) = 1.4 \* LOC in thousands = 1.4\*2.6 = 3.64

Schedule Time (Month) = 3.0\* EPM  $^{1/3}$  = 3.0\* 1.538 = 4.6 (month)