UST Senior Project TeamBuilder Java & JavaFX Project Use Case

**Use Case:** Operator builds project teams

**Scope:** Team Builder operation

**Level:** user goal

**Primary Actor:** Operator

**Stakeholders:**

**- Operator:** Runs the team builder program

**- Students:** Placed on teams

**- Projects:** Receive team members

**Preconditions:** Student and Project lists compiled and formatted in Excel file

**Success Criteria (Postconditions):** Project and Team member lists’ output to Excel file

**Main Success Scenario:**

1. Operator loads student and project data
2. Operator adjusts team building settings
3. Operator initiates team building process
4. System creates teams according to described settings
5. System outputs final teams

**Extensions (or Alternative Flows):**

3a. Team building process stops with system error.

1. Operator finds an error with the student input file format.

1a. Operator corrects input file error.

1. Return to step 1

2. Operator has a memory issue with his/her computer.

2a. Operator shuts down unneeded applications.

1. Return to step 1

4a. Settings are too restrictive to build teams

1. Operator chooses less restrictive settings

1a. Return to step 3

5a. Operator does not like the project teams’ configurations

1. Return to step 3

2. If Operator does not want two students assigned to the same team, he/she adds

student2 to student1’s enemy list.

2a. Return to step 1

5b. Operator needs to remove one project and add another, he/she makes the change

to the project input file.

1. Return to step 1

5c. Operator needs to add a new student, he/she makes the change to the student data

Input file

1. Return to step 1