

## Criterion B: Design

### Design of the Solution:

### EduPlan Form NEXT

Name:  
 Student ID:  
 Email:  
 School:  
 Counselor:  
 Grad Yr:  
 Current GPA:  
 Target GPA:  
 Academic Interests (select):  

stem

arts

lang

humanities

### BACK EduPlan Schedule

**Recommended Classes:**

Block 1:

class: ~ ~ ~ ~ ~ ▽

grade ~ ~ ~ ~ ~ ▽

Block 2:

class: ~ ~ ~ ~ ~ ▽

grade: ~ ~ ~ ~ ~ ▽

Block 3:

class ~ ~ ~ ~ ~ ▽

grade ~ ~ ~ ~ ~ ▽

Block 4:

class ~ ~ ~ ~ ~ ▽

grade ~ ~ ~ ~ ~ ▽

Block 5:

class ~ ~ ~ ~ ~ ▽

grade ~ ~ ~ ~ ~ ▽

Block 6:

class ~ ~ ~ ~ ~ ▽

grade ~ ~ ~ ~ ~ ▽

Block 7:

class ~ ~ ~ ~ ~ ▽

grade ~ ~ ~ ~ ~ ▽

Block 8:

class ~ ~ ~ ~ ~ ▽

grade ~ ~ ~ ~ ~ ▽

Add UVA classes

ADD class: ~ ~ ~ ~ ~

REMOVE grade: ~ ~ ~ ~ ~

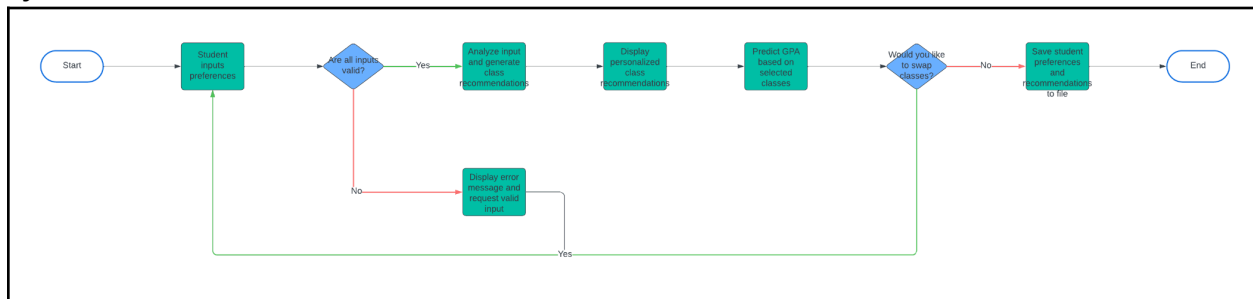
GPA calculator

current: ~ ~ ~ ~ ~

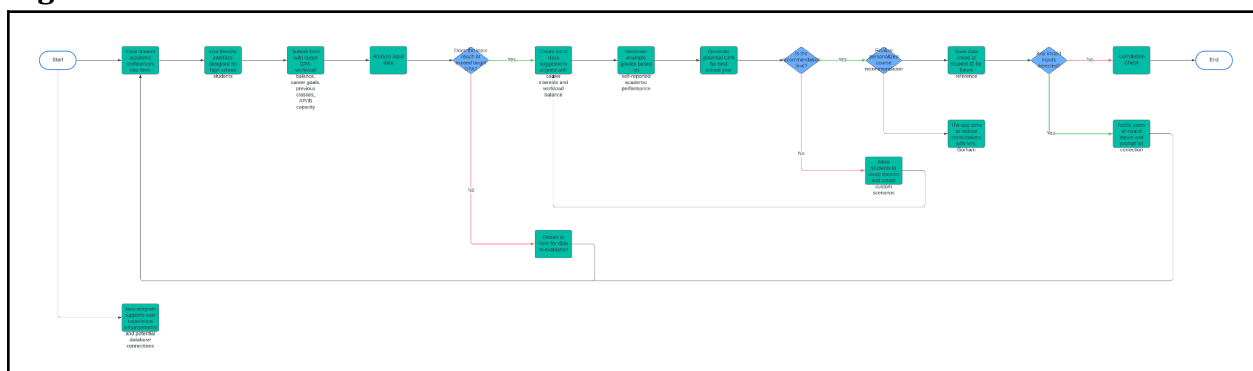
next year ~ ~ ~ ~ ~

met goal ?? ~ ~ ~ ~ ~

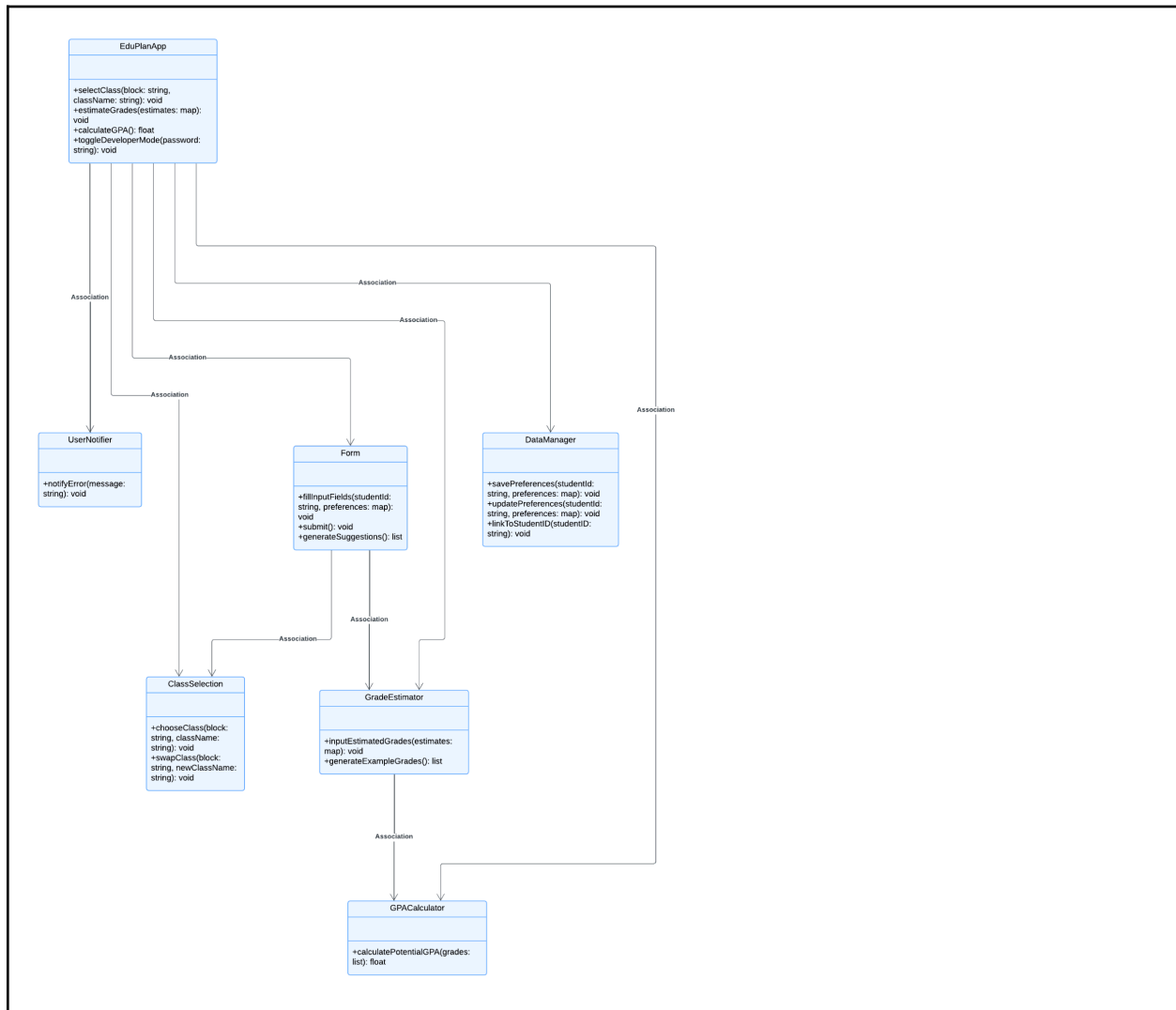
### System Flowchart:



### Algorithm Flowchart:



## UML Class Diagram:



## Test Plan (Must include all criteria for success)

#	Action to Test	Method of Testing
1	Users will be able to input their academic preferences into a functional form.	Be able to click on as many of the available academic preferences and this changes the recommended courses based on what is selected.
2	After filling out the form there will be a computer-generated schedule.	Fill out the form and then ensure that all 8 blocks have a recommended course and a predicted grade in them.
3	The algorithm will generate	Check to see that if the GPA is lower then

	recommended courses based on the student's self-reported academic performance through current GPA on the form.	the amount of weighted (IB and AP) classes recommended lowers accordingly.
4	The students will be able to customize the computer-generated course recommendations by switching the classes for different ones and changing the projected grade for each class.	After generating a schedule, the user should be able to open a dropdown menu for each course name and predicted grade to change it, and the predicted GPA should update.
5	The students will be able to export their recommended schedule into a PDF format to be able to show their counselor with ease.	After creating a schedule and clicking the export button, a PDF should automatically start downloading with all the schedule data.
6	Error handling will be included to notify users of invalid inputs or selections such as inputting letters into a field that should only accept numbers and inputting a student ID longer than 6 digits.	The user will not be able to use the website if an incorrect value is inputted into one of the boxes and it will prompt the user to fix this error.