

# Product specifications

***Examples for Product Specifications are based on Blackboard's Assignments feature***

## User Stories

As a Student, I would like to see the Assignment Name, Instructions, Points Possible, and Due Date, so that I can understand what is being asked of me for the assignment submission.

As a Student, I would like to submit my work as a PDF under the assignment submission form, so that the professor can grade my work.

As a Student, I would like to see the grade for the assignment, so that I can see how well I performed.

As a Student, I would like to get a notification when a grade is posted for the assignment, so that I can see what I got on that assignment in a timely manner.

As an Instructor, I would like to create a New Assignment, so that my students can see what assignments are due.

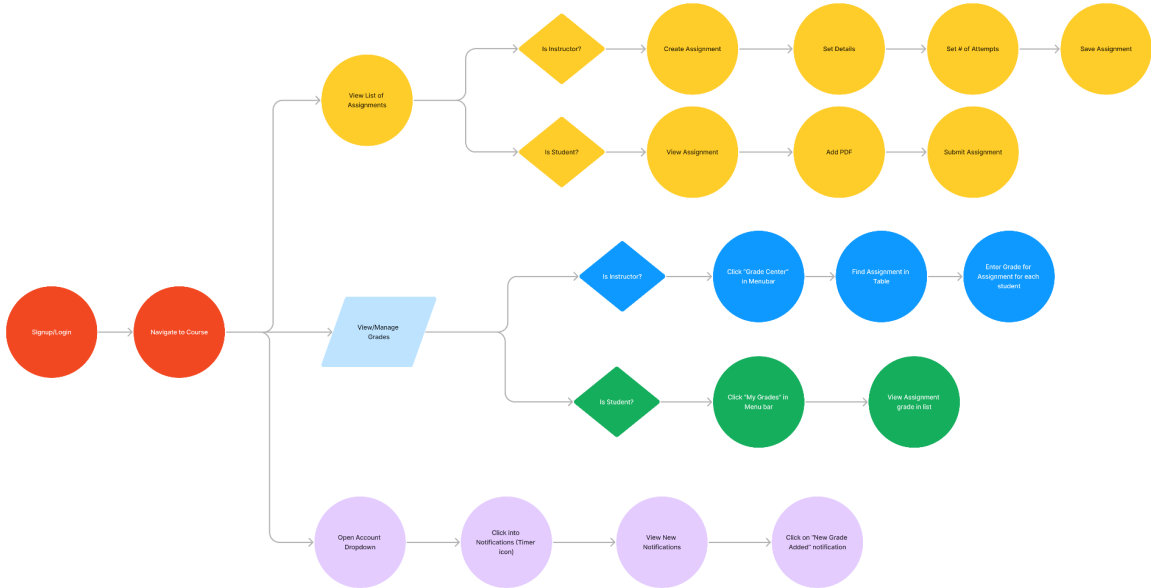
As an Instructor, I would like to set the Name, Instructions, Points Possible, and Due Date for the assignment, so that my students know what is required for the assignment and when the assignment is due.

As an Instructor, I would like to set the Number of Attempts to 3, so that my students can submit the assignment up to 3 times.

As an Instructor, I would like to set the grade of the assignment in the Grade Center, so that my students can see what grade they received on the assignment.

# Flow Diagram

(One example of a user flow based on the User Stories)



# Mockups/WireFrames

List all wireframes or screenshots you have for your project. Use the examples from [Lecture: Project Design and User Experience](#) for ideas.

## Student - Assignment Details

ASSIGNMENT INFORMATION

Due Date <b>Sunday, September 25, 2022</b> 11:59 PM	Points Possible <b>10</b>
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Submit the project proposal after you have discussed the draft proposal with your mentor and instructor(s).  
One page project proposal should address the September goal of "What are you building and why?":

- What is the problem being solved ?
  - Who are your users? What do you users need? Why will they use your product?
  - Competitive research – how do others solve this problem? How do you differentiate your project/product ?
- What are the goals ?
  - What do you want to achieve?
  - How can you achieve these goals ?
- What does success of the project look like ?

## Student - Assignment Submission

ASSIGNMENT SUBMISSION


Text Submission

Attach Files

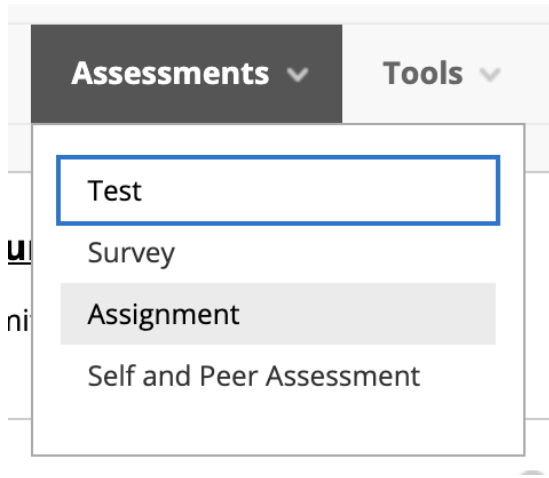
## Student - Assignment Grade

Project Proposal - Due Sept.25th DUE: SEP 25, 2022 Assignment	UPCOMING	- /10
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## Student - Assignment Notifications Icon



## Instructor - Create New Assignment



## Instructor - Set Assignment Details

**ASSIGNMENT INFORMATION**

Name and Color  Black

Instructions  
For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

0 WORDS. POWERED BY TINY

**ASSIGNMENT FILES**

Attach Files

**DUE DATES**

Submissions are accepted after this date, but are marked Late.

Due Date

Enter dates as mm/dd/yyyy. Time may be entered in any increment.

**GRADING**

Points Possible

Associated Rubrics

Name	Type	Date Last Edited	Show Rubric to Students
<a href="#">Submission Details</a>			
<a href="#">Grading Options</a>			
<a href="#">Display of Grades</a>			

## Instructor - Set # of Attempts

### Submission Details

If any students are enrolled in more than one group receiving the same assignment they will submit more than one attempt for this assignment. It may be necessary to provide these students with an overall grade for the assignment.

Assignment Type

- Individual Submission  
 Group Submission  
 Portfolio Submission

Selecting this option will require students to submit a portfolio as a response to this assignment

Number of Attempts

Multiple attempts ▾

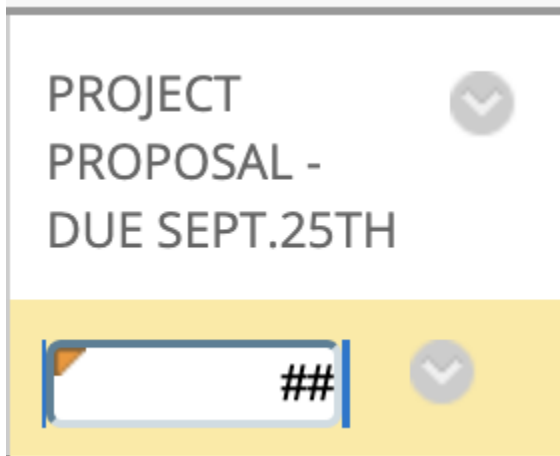
Maximum Attempts

3

Score attempts using

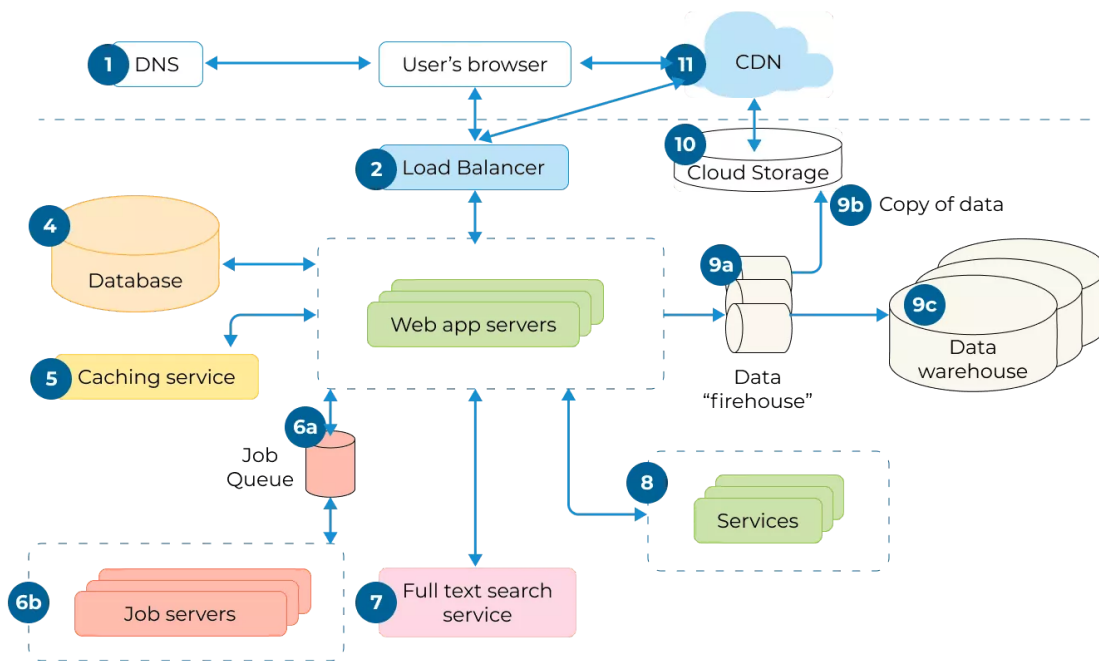
Last Graded Attempt ▾

## Instructor - Grade Assignment



# Technical specifications

## Architecture/System Diagrams



**List all components of your project. Use this diagram as an example for the types of components to incorporate.**

## External APIs and Frameworks

### Twitter API

#### Goal

- Get all tweets to generate sentiment analysis

#### Description

This API is used in \_\_\_ file in the code. It connects to \_\_\_ functionality and is called when \_\_\_ happens. The parameters \_\_\_ and \_\_\_ are generated by the \_\_\_ function and passed into this API to get the result.

(Any additional description)

#### Endpoints Used

- GET /tweet/sentiment/{happy}

### Other External API

#### Goal

- What is the goal of using this algorithm?

#### Description

This API is used in \_\_\_ file in the code. It connects to \_\_\_ functionality and is called when \_\_\_ happens. The parameters \_\_\_ and \_\_\_ are generated by the \_\_\_ function and passed into this API to get the result.

(Any additional description)

#### Endpoints Used

- GET /application/request/{variable}
  - May be an additional format

***List all external APIs and Frameworks you used in your project here. (Eg. AWS, Firebase, Swift, Android Studio, hardware pieces and software frameworks for that hardware, etc)***

# Algorithms

## **Machine Learning Algorithm**

### Goal

Train system on the 10,000 tweets generated by the samplings pulled from Twitter's API

### Description

Detailed description of how this algorithm works within the project

## **Additional Algorithm**

### Goal

What does success of running this algorithm look like?

### Description

Detailed description of how this algorithm works within the project

***Use Details from Writing 3 to populate this section. Be sure to include all technical details that describe the Algorithmic complexity of the project.***