Data Dictionary

Account = Username
     + Name
     + Password
     + Permissions
     + UserType

Announcements = AnnouncementTitle
          + AnnouncementText

AnnouncementText = *Long string that indicated text body of announcement post*

AnnouncementTitle = *string that says the title of the blog post*

AssignmentGrade = [Test | Quiz | Homework | Participation | Other]
          + AssignmentScore

AssignmentScore = *number and letter depicting the score of the assignment.*

Class = 1:200{Students}
     + TeacherAssistant
     + ClassTitle
     + ClassSection
     + ClassNumber
     + ClassCurve

ClassTitle = *string title of class*

ClassSection = *a positive integer*

ClassNumber = *three or four letters followed by a positive integer, ex: CSC308*

ClassCurve = *five numbers defining the percentage needed for an A, B, C, D, F*

Email = EmailBody
     + EmailTitle
     + EmailAttachment
     + EmailRecipients

EmailAddress = *A email address format _____@_____.__ that each user has that can be contacted by
*

EmailBody = *text written by a user*

EmailTitle = *string title of email*

EmailAttachment = *string address of file to be uploaded and sent

EmailRecipients = *list of email addresses of the destinations*

FilesUploaded = 1:100 {Files}

Files = *a file uploaded onto the host server*

GradingRules = PercentageTest
        + PercentageQuiz
        + PercentageHomework
        + PercentageParticipation
        + PercentageOther
        + PercentageFinal
        + ClassCurve

ManageClasses = *permission to add, edit or remove entire class lists of students*

ManageGrades = *Permission to add, remove and modify grades*

ManageMetrics = *permission to add, delete different statistics based on student grades displayed*

ManageRosters = *Permission to add and remove class rosters*

ManageStudents = *Permission to add, remove and modify students*

Name = *string of user's full name*

Password = *password that grants access to a user. At least 6 characters long and encrypted*

PercentageFinal = *A number between zero and one hundred indicating what percentage of the total grade the final is worth*

PercentageHomework = *A number between zero and one hundred indicating what percentage of the total grade homework is worth*

PercentageOther = *A number between zero and one hundred indicating what percentage of the total grade other work is worth*

PercentageParticipation = *A number between zero and one hundred indicating what percentage of the total grade participation is worth*

PercentageQuiz = *A number between zero and one hundred indicating what percentage of the total grade quizzes are worth*

PercentageTest = *A number between zero and one hundred indicating what percentage of the total grade tests are worth*

Permissions = 0:1{ViewOwnGrades}
        + 0:1{ManageGrades}
        + 0:1{ManageStudents}
        + 0:1{SendEmails}
        + 0:1{ManageMetrics}
        + 0:1{PostAnnouncement}
        + 0:1{ManageRosters}
        + 0:1{UploadAttachment}

PostAnnouncement = *Permission to post announcements to all students in class*

SendEmails = *Permission to send emails*

Student = 1:100{AssignmentGrade}
        + GradingRules
        + TotalGrade
        + FilesUploaded

Teacher = 1:5{Course}
        + 1:100{Announcements}
        + FilesUploaded

TeacherAssistant = *User type that has permissions between a teacher and student*

TotalGrade = *a calculated number and letter based on Student AssignmentGrade*

UploadAttachment = *permission to upload external files onto the server*

Username = *string of user's login name*

UserType = ["Teacher" | "TeacherAssistant" | "Student"]
        + EmailAddress

ViewOwnGrades = *permission to view grades*