CS 1120 – 543

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**Lab Report – LA5: SMS Language and PigLatin**

**Design Phase**

**Basic Structure: UML Diagram**

**LA5UML.png**

**Pseudocode:**

* public static void main();
  + Create SMS object
  + Create PigLatin object
  + Create Controller object
  + Run the program
* public Controller();
  + void setSmsObject(ISMS mySms);
    - Sets the Sms object
  + void setPigLatinObject(IPigLatin myPigLatin);
    - Sets the PigLatin object
  + void runProgram();
    - Asks for user input
    - Handle exceptions
    - Call the appropriate method to check text
    - Loop back to start
  + void convertTextToSms();
    - Converts text to sms
  + void convertSMSToText();
    - Converts sms to text
  + void convertTextToPigLatin();
    - Converts text to pig latin
* public Sms();
  + void setInput(String myInput);
    - Sets the private variable myInput
  + String textToSMS();
    - Converts text to sms and returns it
  + String smsToText();
    - Converts sms to text and returns it
* public PigLatin();
  + void setInput(String myInput);
    - Sets the private variable myInput
  + String textToPigLatin();
    - Converts text to pig latin and returns it
* public EmptyStringException();
  + boolean isStringEmpty(String str);
    - If string is empty return true
    - Else return false