Pen to text input
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Progress of milestone 2:

Task	Completion	Dominique	Kasey	To-do
1.Setup SQL database on a local machine	100%	50%	50%	
2.Connect SQL database to a java class (This was a learning task to get familiar with connecting to the database via java code)	100%	100%		
3.Create a java servlet class	100%	100%		
4.Install Tomcat and implemented a java servlet as a webapp	100%	100%		
5.Write a function to save inputs to xml	100%		100%	
6.Create system to display important info about saved xml data	75%		75%	Displays how many of each letter, still needs breakdown info
7.Update documents (test, requirements, & design) with database and servlet components	95%	50%	45%	Continue updating while we build out product

Summary of tasks:
1. Set up a SQL database named pentotext using SQL workbench on our local machines. Was a relatively easy task. We figured out how to export the sql file and import them into another database once we determine where we host the database.
2. Created a java servlet in eclipse and connected to the pentotext database successfully. The program connected to the databases location and outputted the table contents.
3. Created a java servlet class to implement with tomcat. Was also relatively easy after having already created a program that outputted the contents, we needed to extend the http class in the code and make a few adjustments to different methods.

4. Downloaded Tomcat successfully and attempted to implement the java servlet on it. We compile the Java servlet code and move it to the webapps/classes directory in tomcat, and ran startup.bat to start tomcat and accessed localhost:808/<servlet class name> in the web browser. We're getting a 505 ERROR though and so we needed to figure out what is wrong with the code, turns out it was a very simple error, we just forgot to drop in a jar file into tomcat. We successfully connected to our database through tomcat and displayed it as a webapp.
5. Rewrote many UI elements in current main window, making the clearing and submitting of data smoother process, added window to display breakdown of saved data
6. Wrote code to read and write XML, and data window shows count of letters inputed.
7. Work started on showing breakdown of algorithm results.
8. Updated document with a UML diagram and the database approach we decided to take this milestone.

Summary of member contribution:
Dominique: Worked on the SQL database, servlet, and tomcat tasks
Kasey: Worked on implementing a way to read input into an xml file and reading the xml file into the database

Plan for milestone 3:

Task	Dominique	Kasey
1.Connect c# code to the java servlet	100%	
2.Import xml file into database	50%	50%
3.Determine how to compare input to the points in the database based on a certain threshold of input and pattern	50%	50%
4.Code the determined way to compare the inputs based on a certain threshold		100%

Summary of tasks for milestone 3:
1. Connect our c# code to connect to the java servlet so we can read the database. We have looked into a few tutorials so far.
2. Import an xml file full of letters and points into the database. This makes populating the database much faster. If we didn't have the database we would have to populate the database manually.

3. Determine the best way to approach comparing input to the database. So how are we going to determine the users input is close to the input in the database? We need to determine a threshold and way to read the patterns.
4. Start coding the approach determined in step 4 and see if we run into anything we have missed.

Lessons learned from milestone 2:
1. The database stuff is harder than we thought. It requires a lot more effort. We were assuming we would get it up and running in a milestone but that served not to be true. On the other hand the server will not need to be entirely functional until after the breakdown algorithm is finalized.
2. We don't have as much time during each milestone as we thought. Other classes required a lot from us this semester between the many midterms and assignments. So we need to better allocate our time and the effort we will be ale to put into the senior project each milestone.

Sponsor feedback on each task in milestone 2:

1.

2.

3.

4.

5.

6.

7.

8.

Sponsor Signature: _____ Date:_____