Due: Monday, October 3, 2016, 8:00 AM (submit to BlackBoard, under Assignments)

File Type: Microsoft Word

Team Name: Team Harambe

Team Members and email addresses:
  
  Jaydon Bixenman – thejbix@gmail.com
  Liia Butler – l173b625@ku.edu
  Matt Graham – m191g318@ku.edu
  Justin Lee – justinlee1533@gmail.com
  Corban Schmidt – c713s710@ku.edu
  Connor Welch – c779w080@ku.edu

Team Meeting time: Wednesdays at 4:00 PM

Lab Meeting time: Wednesday at 4:00 PM

Contact: Jaydon or Matt

Project Sponsor (if any): None

Project Description (150-250 words)

- Why is the project being undertaken? Describe an opportunity or problem that the project is to address.
- What will be the end result of the project?

  Our project idea is to create an application that would be able to analyze handwritten text and convert it to digital text. Ideally, it would be able to take notes or other written material and store the digital text in a word document, Google doc, or other text format. This project is highly expandable with multiple directions that we could go depending on how far we are able to progress throughout the year. Some potential applications are storing students’ notes digitally, passing handwritten code to a compiler, or performing other operations with the text when a keyword or indicator is found.

  In the end, we would like our application to, at the very least, be able to read handwritten text and rewrite it in a text file of some format. Then, we could create an Android application that would allow the user to take a picture of their notes and store it on their phone or database. If that goes smoothly, then we could also setup a server for storing and accessing their digital notes from multiple platforms.
Project Milestones

- 3-5 specific and measurable objectives per semester for first & second semester
- Estimated completion date for each milestone
- Both implementation and documentation milestones

First Semester Milestones:

- Flesh out project ideas : 9/28/16
- Identify resources and tools necessary for project completion : 10/15/16
- Establish solid work plan : 10/15/16
- Develop foundation for the application : 11/12/16
- Achieve 95% accuracy rate for identifying typed text : 12/10/16

Second Semester Milestones:

- Achieve accuracy rate of 90% for identifying written letters in a single style of handwriting. : 02/15/17
- Achieve accuracy rate of 90% for identifying written letters in multiple handwriting styles : 03/25/17
- Setup server for application to be hosted on and accessed from multiple devices : 05/05/17

Project Budget

- Hardware, software, and/or computing resources
  Hardware: Camera, Server, Lab Machines
  Software: Python, Java, SQL
- Estimated cost
  $0
- Vendor
  None
- Special training (e.g., VR)
  None
- When they will be required?
  Server: Around March 2017
  We already have access to our other resources

Work Plan

- Who will do what?
  Everyone will work together to get basic text recognition working.
  Jaydon and Matt will be in charge of creating an Android app for the text recognition if we reach that point.
Each team is required to maintain a Github account to store project documentation and code. The account must allow full access to the instructor (David O. Johnson) and your team’s assigned lab GTA. Your team’s GTA will show you how to set up the Github account so they are similar. Systems similar to Github are permissible, but need to be approved by the instructor and assigned lab GTA.

GTA did not show us how to set up a Github account.