Air Keys V1: Milestone 1

Group: "Hello World!"
Members:

   - Anwuli Ajabor (aajabor2020@my.fit.edu)
   - Minho Son (mson2017@my.fit.edu)
   - Malakai Spann (mspann2019@my.fit.edu)
   - Kyle Stewart (kstewart2019@my.fit.edu)
Faculty Advisor: Dr. Marius Silaghi (msilaghi@fit.edu)
Client: N/A

Current Progress:

Tasks	Completion %	Anwuli	Minho	Malakai	Kyle	To do
Create project plan	100%	0%	5%	90%	5%	Add other milestone tasks.
Draft requirements document	50%	10%	0%	90%	0%	Brainstorm additional requirements
Standardize development environment	90%	0%	0%	100%	0%	Use demo as base for setting up official dev environment
Create project website	90%	0%	95%	5%	0%	Merge remaining pull requests. Add
Familiarize the team with basic Image Processing concepts	75%	25%	25%	25%	25%	Discuss understanding and conceptual considerations of project.

Discussion of Completed Tasks:

- Create project plan: The project plan is to serve as the backbone for progress evaluation and task creation. The team created this document to set a tentative timeline for project completion to not only keep us motivated but provide our advisor with a basis for external evaluation.
- Draft requirements document: The requirements doc will be used alongside the project plan to evaluate our overall progress. This document serves as the beginning of our testing and software qualification process.

- Standardize development environment: As the team utilizes multiple operating systems and system architectures, a standard development environment is crucial for a smooth development experience. Having a common, flexible environment allows team members to collaborate, develop, test, and deploy software with minimal effort. A demo has been prepared here: https://github.com/HelloWorldSeniorProject/test-repo , however, the repository is private to the group. Any users who wish to gain access can contact mstanisclaus2019@my.fit.edu.

- Create project website: As a part of the tasks assigned by the instructor, our team is to maintain a project website which has all our documentation and related work readily available within reason. This site is hosted using Github pages, a free hosting platform powered by Git. View the site here: https://helloworldseniorproject.github.io/

- Familiarize the team with basic Image Processing concepts: As stated in the project plan, one of the major challenges of this project is the technical knowledge required to implement the virtual recognition features of the keyboard. As many members are either not familiar or fully confident in their knowledge of image processing, each team member is responsible for the learning relevant information concepts using any available resources.

Member Contributions:
- Anwuli Ajabor: Little to no contribution.
- Minho Son: Creation of project website (linked above), provided external demos related to project.
- Malakai Stanisclaus: Creation and completion of test demo, project plan, and requirements document. Acting team leader.
- Kyle Stewart: Little to no contribution.

Plan for the next milestone:

Tasks	Anwuli	Minho	Malakai	Kyle

Update Project Plan for Milestone 2	Write 25%; add descriptions for contributions	Write 25%; add descriptions for contributions	Write 25%; Updates tasks and write descriptions for contributions	Write 25%; add descriptions for contributions
Update requirements document	Write 25%; Update as necessary	Write 25%; Update as necessary	Write 25%; Update as necessary	Write 25%; Update as necessary

Implement automation and developer tools	0%	0%	100%; create and maintain dev environment and automations	0%
Draft design document	Write 25%;	Write 15%; Review technical details 10%;	Write 15%; Review technical details 10%;	Write 15%; Review technical details 10%;
Begin implementing features	Implement, test, review 25%;	Implement, test, review 25%;	Implement, test, review 25%;	Implement, test, review 25%;

- Update project plan for milestone: The project plan is to serve as the backbone for progress evaluation and task creation. The team created this document to set a tentative timeline for project completion to not only keep us motivated but provide our advisor with a basis for external evaluation. Update & review tasks completion to ensure consistency as project moves along.

- Update requirements document: The requirements doc will be used alongside the project plan to evaluate our overall progress. This document serves as the beginning of our testing and software qualification process. Update & review necessity along with practicality of requirements as features are developed.

- Implement automation and developer tools: As the team utilizes multiple operating systems and system architectures, a standard development environment is crucial for a

smooth development experience. Having a common, flexible environment allows team members to collaborate, develop, test, and deploy software with minimal effort. A demo has been prepared here: https://github.com/HelloWorldSeniorProject/test-repo , however, the repository is private to the group. Any users who wish to gain access can contact mstanisclaus2019@my.fit.edu. Create development environment based on necessary tools and configure automation.

- Draft Design Document: As the scope of the project can exceed initial expectations, it is important that the team discuss and document a flexible architecture that allows for a robust and reliable implementation of desired features. This document will increase our understanding of the system and in our testing and software qualification process.

- Begin implementing basic features: As inception phase of the system winds comes to a close, we should be focusing on developing working software. Along with development, intermediate testing will be done to lessen the work required for final software testing and qualification.

Meeting with the faculty advisor was on
- January 31, 2023: Initial meeting, informal project approval
- March 11, 2023 : Project Plan review; Milestone 1 review.

Faculty Advisor Signature _____ Date _____ 3/21/23
—For Faculty Advisor—

Team Member	Score (between 0 to 10)
Anwuli Ajabor	
Minho Son	
Malakai Spann	
Kyle Stewart	

Signature _____ Date _____