Progress Report
- Increment 3 -
Group 9

1) Team Members

Kaitlyn Krause - kk22a - kkrause12

Tara Kerstetter - tgk22 - tgkerstetter

Megan Cole - mic22 - megan-cole

Brandon Pina - bp22c - brndino

2) Project Title and Description

KeyFlow
A web application used to test and practice typing speed and accuracy.

3) Accomplishments and overall project status during this increment

During this increment, we focused our efforts on completing the final functionalities/minigames we planned to add, as well as making the website look professional. To finish up the functionality of the basic typing test, we added the personalized practice mode, which generates sentences based on the users most frequently missed letters. To finish up the functionality of the first minigame, Snowfall, we made sure the database was connected to the scores, as well as fixed up slight issues and added images to make the design of the game complete. To complete with the main sections of our game, we started and completed the final minigame, SnowSlope, an obstacle typing minigame. This minigame was created, and now has full functionality with connection to the database as well as images added for the design as well. Apart from the main minigames, we also added the Battle Pass feature as well, tying into the XP and level system for registered users. We created this feature to allow users to level up and unlock rewards as they level up. We also completed the hosting of the website key-flow.com through AWS and Cloudflare, and made sure this seamlessly connected to our project and the database. This is now fully up and running, and works great. We completed all the functionality and scope we had wished to accomplish through this project.

4) Challenges, changes in the plan and scope of the project and things that went wrong during this increment

One challenge during this increment was the push to make sure everything like the static files and images we wished to use for our minigames would work properly connected to our cloud server. There was some difficulty in getting the website to work with the csrf tokens in Django when it was hosted on the cloud. One change in the original plan was the friends feature. Instead of spending time implementing the friends functionality within our application, we decided to spend more time making sure the main minigames and overall design of the website were perfect. Unfortunately, this means we were unable to add this feature, however we believe it was the right choice to make sure the main features of the application were more put together.

5) Team Member Contribution for this increment

Megan Cole:
   a. Progress Report: All sections of the progress report.

    b. RD Document: During our group discussion, checked over the document and made any necessary changes.

    c. IT Document: During our group discussion, checked over the document and made any necessary changes.

    d. Source Code:
- Created SnowSlope minigame
- CSS/HTML for profile page

    e. Video:
- General overview/code demonstration of Snow Slope/Type Test

Brandon Pina:

    a. Progress Report: During our group discussion, checked over the document and made any necessary changes.

    b. RD Document: 5- 7

    c. IT Document: During our group discussion, checked over the document and made any necessary changes.

    d. Source Code:
- Added personalized practice to typetest
- Made changes to the typetest display

    e. Video:
- Short description of state of project and what was accomplished

Kaitlyn Krause:

    a. Progress Report: During our group discussion, checked over the document and made any necessary changes.

    b. RD Document: Parts 1 - 4

    c. IT Document: During our group discussion, checked over the document and made any necessary changes.

    d. Source Code:
- Created BattlePass functionality
- Added images to Snowfall

    e. Video:
- General overview/code demonstration of Snowfall /battlepass

Tara Kerstetter:

    a. Progress Report: During our group discussion, I checked over the document and made any necessary changes.

    b. RD Document: During our group discussion, I checked over the document and made any necessary changes.

    c. IT Document: All Parts

    d. Source Code:
- i. Css for homepage/battlepass
- ii. Server csrf tokens

    e. Video:
- describe any change in scope of the project from the initial plan proposed in your project proposal and explain why the change occurred

6) Stakeholder Communication

Dear [Stakeholder Names],

We are writing to provide an update on the progress of the KeyFlow application. We are pleased to inform you that we have successfully completed the main type test mode, as well as both of the requested minigames, Snowfall and SnowSlope. At this time, all of the desired functionality for users to begin entering the website, playing all of the games, and navigating through the features such as leaderboards, profile pages, and the battle pass has been completed. Users can receive personalized practice in the type test in order to improve their typing skills as well. The design of the webpage is complete and has the desired look to bring in more users. The battle pass feature, as well as the functionality of levels has been completed as well, allowing users to store their progress and achieve rewards the more they play. The website hosted on the cloud server at key-flow.com is complete and supports a large volume of traffic to the website.

The project made great progress since our last update, and we were able to implement all features previously discussed. We faced slight setbacks in the integration of the application in production with the server hosted to the public due to challenges connected to the cloud technology's integration with our software technology. However, after some research, we found the best way to integrate the technologies and thus provide the best user experience for the website. While these challenges did cause a slight delay in production time, we were still able to accomplish all the desired features and we are confident that the perfection of the website was essential to providing the best user experience.

With this final update, we have officially accomplished all the desired objectives, and KeyFlow is ready for deployment. Thank you for your support during this project, and we are happy to help if you have any questions.

Best regards,

KeyFlow Development Team

7) **Link to video**

   https://youtu.be/dTjiTRjIEfE