Progress Report

- Increment 1 -

Group #1

1) Team Members

- Andrew Augustine - aea19h - Azure-Agst
- Cole Warren - cew19j - ColeWarren
- Dawson Stoller - dhs19b- stollerdaws
- Tristan Morris - tbm19a - nachonocheese
- Anthony Ingle - asi20 - ingleanthony

2) Project Title and Description

Florida Lottery Pool:

Our project is a web hosted interface where clients can come to the site, purchase a lottery ticket which enrolls them into a given lottery pool, the idea being that if any member of a given pool wins the jackpot, those winnings would be distributed amongst everyone in the pool. Players will be able to purchase many tickets within one pool or purchase tickets among many pools and players will be paid out proportional to the number of tickets they purchased. This project will use python to serve the backend databases and is using solidjs to structure the frontend.

3) Accomplishments and overall project status during this increment

In this iteration, we mainly focused on getting the foundation laid, so that development for iterations 2 and 3 are as streamlined as possible. We began with a simple flask project and have since added separate backend and frontend folders. From there we have a python app which is routing the traffic of the frontend. At first there was nothing, but now when the user visits our index page, there is a button which when clicked, will send a request to our API which routes the traffic to another python function which returns a JSON message which says hello from the API. Overall we now have a functioning foundation with proof of concept already developed for how we are going to link the information we have in our database to the end user on the web.

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

- For Auth0, there was some confusion on which application type was to be created, it went from Machine-to-Machine Python Backend API service after realizing that we needed to combine it with the single page web app with Machine-to-Machine Python Backend API.
- Beyond that, we did not have any major challenges at least to the degree that we have not had to change the course or scope of the project since we have started.

5) Team Member Contribution for this increment

- Progress Report
  - Andrew filled out most of section 5 & all of section 7 in this document.
  - Dawson filled out sections 2 and 3 and some of sections 4 and 6 of this document
  - Cole added Auth0 Challenges and contributed to the plans for the next increment in this document.
  - Tristan added technologies to section 2 of this document.
- R&D Document
  - Use Case & Sequence diagrams were designed by Andrew
  - Overview and Non-functional Requirements worked on by Cole
  - Functional and Non-functional requirements worked on by Tristan
- I&T Document
  - Original bullet points were made by the entire group
  - Final document was formatted and written by Andrew
- Source Code
  - Frontend:
    - Anthony laid down the groundwork for the project, and added a testing suite & style guide.
    - Tristan helped Anthony with programming certain parts of the frontend.
  - Backend:
    - Andrew pushed the initial file structure, and also added a testing suite & style guide
    - Cole integrated auth0 into the backend and frontend on a separate branch.
    - Dawson set up the initial endpoint on the backend to serve the API endpoint used in our test application.
  - Docker:
    - Andrew designed all of the Dockerfiles & Docker Compose files
  - CI/CD:
    - Andrew pushed the initial backend testing & build workflows
    - Anthony updated the testing workflow to add frontend testing support
- Video Presentation
  - Everyone was present for and contributed to the video presentation.
  - Final video presentation was edited by Andrew, trimmed down for brevity.

6) Plans for the next increment

Now that we have laid down the foundation for the project, we will focus on expanding upon it. This involves designing the layout of the website and adding working features such as allowing the user to enter a pool. In future iteration, users will be able to purchase tickets on the website, create private pools and collect their winnings via our SolidJS frontend interacting with the Python/MariaDB backend.

7) Link to video

https://drive.google.com/file/d/15zL7Q5BQLV41uXA8khyAJR-_Qm7CmSXV/view?usp=sharing