**2019 Application Security Challenge Requirements**

Expectations:

Individuals, working in teams up to 5, will work off hours to develop a game character creation application that can pass First American’s security requirements.

Requirements:

* Create a new account with a username and password
* Change existing account password
* Admin page to be able to check account details such as users’ characters, add new classes for players to pick, and increase max character capacities.
  + Can see all the users’ characters on the application across all users
  + Can add new classes that have not been specified before
  + Increasing character capacities is across all users
* Users can make new characters by picking the class and naming themselves.

(They start off at Level 1 and names must be unique (only alphabetical and numerical names))

* + Only one class can be picked of all the choices.
  + One character can be made at a time.
  + Can have 0 characters.
  + Do not need to fill all the slots can have 0,1,2,3,4,…
  + Level is per character and not account wide
  + Names are unique across the application
* Players can make up to max 5 characters unless admin increases the amount. It will never go below 5.
  + Once increased it will not be able to go below that new value.
* Safety Features (i.e. input validation for creating characters and preventing multiple login requests)
* Available classes include for this application:
  + Warrior
  + Magician
  + Thief
  + Bowman

Success Criteria:

* Meet the minimum requirements listed above
* Pass a static scan based on First American’s policies
* Be submitted before the published deadline

The winning application will be one that:

* Meets all requirements
* Passes a static scan through Veracode with the highest score and least vulnerabilities
* Additional consideration will be given to applications designed to be:
  + Maintainable
  + Scalable
  + Practical
  + Aesthetically Pleasing

Contact Information: For further details, please contact bcallender@firstam.com or visit our FALive Page.