User Stories and Scenarios

Feature: Pre-Test //After tutorial , if yes - sign up to tutorial to test to homepage
If no for tutorial, sign up to test to homepage
As a student with prior experience, I would like the option to test out of subjects I am confident I know so that I can focus on the topics I am unfamiliar or struggling

Scenario: User has prior knowledge.
Given I have learned a few java concepts already
When I finish taking the pre-test
  Then I should see what percentage I got relative to the sections.
When I see these percentages
  Then I should have the option to skip a section in the game if I scored above 80% or above for that section.

Feature: Completion Certificate
As an ambitious student, I would like a certification of completion at the end to show my teacher and friends that I mastered the app

Scenario: User complete every challenge in the app
Given I have completed every level in the app
When I get to the very end
  Then I should be presented with a certificate of completion within the achievements on my profile page.
  When I see this certificate on my profile,
Then I should have the option to send it to myself through email.

Feature: Progress Snapshot
As a student, I would like to email myself my progress so that I can show people what I have accomplished

Scenario: User wants to see current progress
Given I have worked on a section and want to show my friend my progress
When I view my overall progress for each section
  Then I should be presented with the option to email myself a snapshot of my current percentage completion on each section.

Feature: Hints
As a learner, I would like the option of hints so that I can figure out how to move ahead when I am stuck

Scenario: user is unable to complete a certain challenge

Given I am stuck on a particular level in the game,
When I press on the tab labeled 'hints'
    Then I should be able to access hints in order to help me progress further.

Feature: Easy Login

As a lazy student, I would like to use my email to login in so I don't have to remember my username.

Scenario: User cannot remember username but remembers email address
Given I struggle to keep up with names
When I go to login to the application
    Then I should have the option to login with my email instead of my username.

Feature: Bug Reporting

As a customer, I would like to leave feedback so that I can report any bugs in the game.

Scenario: User encounters a bug in the application
Given I notice a particular glitch or error in the app
When I hit on the support tab on the bottom right of the screen
    Then I should be able to submit a feedback response to the creators using my email.

Feature: Password Recovery //Attached to sign in

As a forgetful student, I would like a forget password option so that I can have a way to still get in if I forget it

Scenario: User has forgotten his or her password
Given I have forgotten my password
When I am on the login screen
    Then I should see an option for forgot password
When I click on the forgot password option
    Then I should be redirected to a screen that asks for a valid email address
    And allows me to send an email to that address
When I go into the email
    Then I should be able to get back into the app and be prompted for a new password
When I type in my new password
    Then I should be asked to type it in a second time for conformation and the password
    Should save.
When I go to login again
    Then I should be able to successfully login after typing in the newly set password
    Once.

Feature: App tutorial

As a simpleton, I would like to have a button that will show how to use the app so that I know how the app works

Scenario: User is not tech savvy
Given I'm not entirely tech savvy
When I open the app for the first time
    Then I should be presented with an option to see how the app functions
When I hit yes to see this option
    Then I should be given a step by step lesson on the features of the app and
    How to traverse it.

Feature: Security Email
As a student, I would like to be emailed if multiple fail attempts occur so i can change my
password if i need to.

Scenario: Three password attempts were failed
Given I am in the login screen
When I input three incorrect passwords
    Then it should send me an email offering to reset my password
    And it should prevent me from logging in for two minutes
When I check my email
    Then I should have received an email offering to reset my password
    And should have a link to reset my password
When i click the link
    Then it should take me to a page where i can type in my new password
    And should change my password as long as it meets the requirements

Feature: Level Repeat
As a student, I would like to have the option to repeat levels so that i can further study if i feel i
need to.

Scenario: After completing a lesson
Given I am on the homepage
When i click on a lesson i have completed
    Then it should allow me to restart the lesson

Feature: No time limit
As a student, I would like to have no time limit so i don't feel rushed while learning new material.

Scenario: Starting a lesson
Given I am on the homepage
When I click on a lesson
    Then it should take me to the lesson
    And there should be no time limit

Feature: Erase data //Under profiles
As a user, I want to erase my data, so that I can start fresh.

Scenario: All levels have been completed
Given I am on the homepage
When I click on profile
      Then it should take me to the profile screen
When I click on 'erase my data'
      Then it should ask me if I really want to erase my data
When I click on 'yes'
      Then it should ask me again, and give me a final warning
When I click on 'yes' again
      Then it should take me back to the homepage
      And I should see that only lesson 1 of *Elementary Programming* should be unlocked
      And the rest of the lessons and levels should be locked

Feature: Recover username
As a forgetful student, I want to be able to retrieve my username, so that I can use it to login.

Scenario: Forgot username login
Given I am on the login screen
When I click on 'forgot username'
      Then it should take me to the forgot username screen
      And prompt me to enter my email and submit
When I check my email
      Then I should see an email from the app
      And it should give me my username

Feature: View higher levels
As a student, I want to be able to see higher levels, so that I can be prepared.

Scenario: *Elementary Programming* level not yet completed
Given I am on the homepage
When I scroll down to the next section
      Then I should see the next level *Selections*
When I scroll down even further to the next section
      Then I should see the next level *Mathematical Functions, Characters, and Strings*
And so on.. Until the last level: *Single-Dimensional Arrays*

Feature: Progress bar
As a user, I want to see my progress in a progress bar, so that I know how far I have gotten in the levels.

Scenario: 1 of 4 lessons have been completed in *Elementary Programming* level
Given I am on the homepage
When I look below the level name
    Then I should see that 25% of the progress bar has been filled up

Feature: Locked levels
As a student, I want to see that the higher levels are locked, so that I know I still have to work on the previous levels.

Scenario: Completed only the first lesson of *Elementary Programming*
Given I am on the homepage
When I try to click on level 3
    Then it should not let me open it
    And notify me that I still need to complete previous lessons
When I swipe left to view the other levels
    Then it should not let me open any of the lessons

Feature: Resource link
As a studious student, I want to be able to click a link to other resources, so that I can understand the concepts better.

Scenario: Following a lesson
Given I am on a lesson
When I click on a resource link
    Then it should open a resource page
When i click on a resource
    Then it should open a browser
    And redirect me to a website that will help me understand the material better

Feature: Short tutorial
As a student, I want to see short tutorials (sample questions) at the end of lectures, so that I can be prepared for the challenges.

Scenario: Finishing a lesson
Given I am at the end of a lesson
When I click on 'next'
    Then it should give me a short tutorial to help me prepare for the challenges

Feature: Answer picked highlighted
As a student, I want to see the answer choice that I picked highlighted, so that I know I clicked the one I wanted.

Scenario: Picking one of the answer choices

Given I am on a challenge question
When I click on an answer choice
    Then it should become highlighted
When I click on a different answer choice
    Then the old one's highlight should go away
    And the new one should become highlighted

Feature: Submit answer
As a student, I want to click on 'submit', so that I can finalize my answer.

Scenario: Finalize answer choice
Given I am on a challenge question
When I click on an answer choice
    And click the submit button
    Then it should either tell me if my answer is correct or wrong

Feature: Skill Mastery
As a student, I want to see a notification when I score 80% on a challenge, so that I know I have mastered the skill.

Scenario: Challenge completed with at least an 80% grade
Given I am on a results page
When I click next to go back to the homepage after scoring at least an 80% on the challenge
    Then it should notify me that I have mastered the skill
    And the next lesson should become unlocked

Feature: Perfectionist Medal
As a student, I want to earn a medal when I score 100% on all challenges, so that I can feel good about being a "perfectionist"

Scenario: All challenges completed with 100% grade
Given I am on a results page
When I click next to go back to the homepage after scoring 100% on all challenges
    Then it should notify me that I was awarded with a "Perfectionist" medal
When I click on profile
    And I click on medals
    Then I should see the Perfectionist medal unlocked

Feature: Correct answer
As a student, I want to see the answer choice turn green when it is correct after I submit my answer, so that I know I answered the question correctly.

Scenario: Highlight submitted correct answer choice green

Given I am on a challenge question
When I submit the correct answer choice
> Then the answer choice should become highlighted as green
> And it should proceed to the next question
> Or go to the results screen

Feature: Incorrect answer

As a student, I want to see the answer choice turn red when it is wrong after I submit my answer, so that I know it is not the correct answer.

Scenario: Highlight submitted incorrect answer choice red
Given I am on a challenge question
When I submit an incorrect answer choice
> Then the answer choice should become highlighted as red

Feature: Show answer

As a student, I want to see the answer after a few incorrect tries, so that I know my mistake.

Scenario: Show correct answer after a few incorrect tries
Given I am on a challenge question
When I answer incorrectly three times
> Then the answer should be shown to me
> And it should go to the next question
> Or go to the results screen

Feature: Feedback

As a customer, I want to leave feedback, so that I can give suggestions on improving the app.

Scenario: Leaving suggestions as feedback
Given I am on the homepage
When I click on the support icon
> Then it should take me to the support page
When I click on "feedback"
> Then it should take me to a page

Feature: Frequently asked questions (FAQs)

As a customer, I want to see frequently asked questions, so that I do not have to ask the same questions again.

Scenario: Navigate to the frequently asked questions page
Given I am on the homepage
When I click on the support icon
> Then it should take me to the support page

When I click on "Frequently asked questions"
　　　Then it should take me to the FAQs page

Feature: Night Mode (optional)
As a healthy person, I want to turn on night mode, so that I do not hurt my eyes from the screen.

Scenario: User is in a dark area and wants to progress in the game
Given it is right before midnight and I am laying in bed playing the game
When I get into the app
　　　Then I should see a button to change the display to night mode so that the bright
　　　Display doesn't hurt my eyes at this time in the night.

Feature: Final Exam (optional)
As a student, I want to test in a final exam at the end of a level, so that I can test my knowledge of the material.

Scenario: User has completed the game and wants to take a final test to see improvement.
Given I have completed the pre test, every level and challenge in the game
When I get to this stage I should be asked if I want to take post test to test my knowledge
　　　Then after taking the test i should be show the percentages for each section
　　　And should also be show the percentages from the pret test to see if I made any
　　　improvements

Feature: Bookmarks (optional)
User Story: As a student, I want to bookmark lessons, so that I can come back to it easily.

Scenario: Bookmark a lesson page
Given I am on a lesson page
When I click on the bookmark button
　　　Then the bookmark button will become highlighted
When I go to the homepage
　　　And I click on the bookmark icon
　　　Then I should see a list of lesson pages that I bookmarked

Feature: Link Account (optional)
As a social media user, I would like the option to sign in through Facebook or Google so that i can sign in easily.

Scenario: Signing in
Given I am on the login screen
When i click sign in through Facebook/Google/Github
　　　Then it should redirect me to the desired accounts login page
　　　And i can put my put in my login information

When i click sign in
    Then it should redirect me back to the app
    And should have successfully linked the apps
And/or

Scenario: Linking accounts
Given I am on the homepage
When i click profile
    Then it should take me to my profile page
When i click sign in through Facebook
    Then it should redirect me to the Facebook login page
    And i can put my put in my login information
When i click sign in
    Then it should redirect me back to the app
    And should have successfully linked the accounts
When i click sign in through Google
    Then it should redirect me to the Google login page
    And i can put my put in my login information
When i click sign in
    Then it should redirect me back to the app
    And should have successfully linked the accounts
When i click sign in through Github
    Then it should redirect me to the Github login page
    And i can put my put in my login information
When i click sign in
    Then it should redirect me back to the app
    And should have successfully linked the accounts

Feature: Sign Up
As a user, I want to see the sign up page when I open the app for the first time, so that I can create a new account.

Scenario: Signing up for the app
Given I open the app for the first time
When I enter my email and password
    Then it should create a new account for me

Feature: Sign In
As a user, I want to see the sign in page when I open the app again, so that I can login with my info and use the app

Scenario: Signing in
Given I open the app

When I enter my login information (email/username and password) correctly
Then it should take me to the homepage