Acceptance criteria – for User stories (Gherkin format)

1. Landing page (weight=5) As a user, I want to access a well-structured landing page, so that I can quickly understand the purpose of the website and be directed to sign up.

Scenario 1: Landing page loads successfully

• Given I am a visitor to the website

 • When I navigate to the landing page (e.g., at "/")

• Then the landing page should load without errors

• And the page should display a clear header, main content area, and footer

 Scenario 2:

 Clear communication of website purpose

• Given I am on the landing page

• When I view the page content

 • Then I should see a prominent headline that explains the website’s purpose

• And I should see supporting text that highlights key features and benefits

 Scenario 3:

Prominent call-to-action for sign up

 • Given I am on the landing page

 • When I scroll or look at the main content

• Then I should see a clear and prominent call-to-action (CTA) button for signing up

 • And clicking the CTA should direct me to the registration page Scenario

 2.Log in & sign up page (weight =5) As a user, I want to register an account and log into my account, so that I can have a personalised experience.

 Scenario 1: Successful Registration

• Given I am a new visitor on the registration page

 • When I enter a valid name, email, username, and password that meet the required criteria

• And I click the "Register" button

• Then my account should be created

Scenario 2:

 Registration with Existing Username or Email

• Given I am on the registration page • When I enter a username or email that is already registered

• And I click the "Register" button

 • Then I should see an error message indicating that the username or email already exists

• And my account should not be created

 Scenario 3: Successful Login

• Given I have a registered account

• When I navigate to the login page

 • And I enter my correct username (or email) and password • And I click the "Sign in" button

• Then I should be successfully logged in

• And I should be redirected to my dashboard (or personalized home page)

Scenario 4: Login with Invalid Credentials

• Given I am on the login page

• When I enter an incorrect username or password

• And I click the "Sign in" button

• Then I should see an error message stating that the credentials are invalid

 • And I should remain on the login page

Scenario 5: Required Field Validation

• Given I am on the registration or login page

• When I submit the form with one or more required fields empty

• Then I should see a validation error for each missing field

• And the form should not be submitted

3. View Dashboard (weight = 13) As a User, I want to be able to track my progress including streaks, leaderboard and available courses once signed in with my profile. So that I can track all of my progress throughout the application.

 Scenario 1: Dashboard Loads Successfully

• Given I am a registered user

• When I log in and navigate to the dashboard

• Then the dashboard should load without errors

 • And it displays my profile information and progress overview

Scenario 2: Display User Progress and Streaks

• Given I have existing progress data (e.g., course completions, streak count) • When I view the dashboard • Then I should see my current progress metrics clearly (e.g., current streak, total score, number of courses completed)

Scenario 3: Display Leaderboard Information

• Given I have a position on the leaderboard

• When I view the dashboard

• Then a snapshot of the leaderboard (or a link/button to view full details) should be visible

• And my ranking is highlighted or easily identifiable Scenario

4: Display Available Courses

• Given there are courses available on the platform

• When I view the dashboard

• Then I should see a section listing the courses that are available for me to enroll in

 • And these courses are displayed with key information such as title, difficulty, and

4. Search and Filter Courses(weight=5) As a Student, I want to search and filter IBM SkillsBuild courses by keywords and categories so that I can quickly find courses relevant to my interests.

Scenario 1: Display all courses by default

 • Given I am a student on the courses page

• When no search term is entered and no category filter is selected

• Then I should see a list of all available IBM SkillsBuild courses

 Scenario 2: Search courses by keyword

• Given I am on the courses page

• When I enter a keyword (e.g., "AI") in the search box and initiate a search

 • Then the displayed course list should update to show only courses whose titles or descriptions contain "AI" (case-insensitive)

 Scenario 3: Filter courses by category

• Given I am on the courses page

 • When I select a specific category (e.g., "Cyber Security") from the category dropdown • Then the course list should update to show only courses that belong to the "Cyber Security"

category Scenario 4: Combine search and filter

• Given I am on the courses page

• When I enter a keyword and select a category simultaneously and initiate the search

• Then the course list should display only courses that match both the keyword and the selected category

5.Knowledge test(weight=8) As a student, I want my knowledge to be tested by answering a few questions so that I can ensure that my learning is complete and earn the certificate.

 Scenario 1: Successful Knowledge Test and Certificate Awarding

• Given I am a student on the quiz page for a completed course • When I answer all the quiz questions and submit the quiz

 • And my score is equal to or above the passing threshold (e.g., 80%)

 • Then I should be redirected to the quiz success page

• And a certificate should be automatically awarded to my account

Scenario 2: Failed Knowledge Test

• Given I am a student on the quiz page for a completed course

• When I answer the quiz questions and submit the quiz

• And my score is below the passing threshold

• Then I should be redirected to the quiz failure page

• And no certificate should be awarded

Scenario 3: Automatic Certificate Check

• Given I have already been awarded a certificate for this course

• When I pass the quiz

• Then the system should detect the existing certificate and avoid awarding a duplicate certificate .

 6.Certificate Order and Categories (weight=5) As a user, I want to filter and sort my certificates based on relevance and importance so that I can easily find the most significant ones

. Scenario 1: Display all certificates by default

• Given I am a logged-in user with earned certificates

• When I navigate to the certificates page without applying any filters or sorting

• Then I should see all my certificates

Scenario 2: Filter certificates by course category

• Given I have certificates from courses in various categories

• When I select a specific category (e.g., "AI") from the category dropdown and apply the filter

• Then I should see only the certificates for courses that belong to the "AI" category Scenario 3: Filter certificates by course difficulty

 • Given I have certificates from courses with varying difficulties

• When I select a difficulty level (e.g., "Intermediate") from the difficulty dropdown and apply the filter

• Then I should see only the certificates for courses that have "Intermediate" difficulty Scenario 4: Combine category and difficulty filters

• Given I have certificates spanning multiple categories and difficulties

• When I select a specific category (e.g., "Cyber Security") and a difficulty (e.g., "Advanced") and apply the filters

• Then I should see only certificates that match both the "Cyber Security" category and "Advanced" difficulty Scenario 5: Search for certificates by course title

• Given I have certificates with various course titles

• When I enter a keyword (e.g., "Data") in the search box and apply the filter

• Then I should see only certificates where the course title contains "Data" (case-insensitive)

7. Course Recommendations (weight=5) As a Student, I want the app to recommend courses based on my interests and completed courses so that I can easily find relevant learning materials.

Scenario 1: Display All Courses When No Interests Are Defined

• Given I am a student who has not yet specified my interests or completed any courses • When I access the recommendations section • Then I should see four random courses • And the courses are displayed in a clear, grid layout Scenario

2: Recommend Courses Based on Completed Courses

• Given I am a student who has completed one or more courses

 • When I access the recommendations section

 • Then the app should analyze my completed courses and recommend additional courses in similar categories or difficulties

 • And the recommended courses should be prominently displayed with key details (title, category, difficulty)

Scenario 3: Recommend Courses Based on Specified Interests

• Given I have indicated my interests (for example, via my profile settings or a survey) • When I view the course recommendations

 • Then the app should prioritize and display courses that match my declared interests

Scenario 4: Exclude Completed Courses from Recommendations

• Given I am a student who has completed one or more courses

• When I access the recommendations section

• Then the app should exclude any courses I have already completed from the recommendations

• And it should suggest alternative courses within the same categories or difficulty levels

• And the recommended courses should be displayed with key details (title, category, difficulty) in a

8. Learning history (weight=5) As a student, I want to view a list of course I have enrolled with indication of completion so that I can track my progress effectively.

Scenario 1: Display enrolled courses in learning history

 • Given I am a logged-in student with enrolled courses

 • When I navigate to the learning history section in dashboard

 • Then I should see a list of all courses in which I am enrolled

• And each course entry should display key information (e.g., course title, category, difficulty)

Scenario 2: Display message when no courses are enrolled

• Given I am a logged-in student with no enrolled courses

• When I navigate to the learning history page

• Then I should see a message such as "You haven't enrolled in any courses yet"

 • And no course list should be displayed

9. Edit User Information (weight = 5) As a user, I want to edit my account details, including personal information and profile appearance, so that I can keep my information up to date.

Scenario 1: Display Edit User Information Page

• Given I am a logged-in user

• When I navigate to the "Settings" or "Edit Profile" page

• Then I should see a form pre-populated with my current personal information (e.g., username, email)

 • And I should see an option to update my profile picture

Scenario 2: Successfully Update Personal Information

 • Given I am on the edit profile page

 • When I change my personal information (e.g., username, email) and submit the form with valid data

 • Then my account details should be updated in the system

 • And I should see a success message confirming the

 update Scenario 3: Validation for Required Fields

 • Given I am on the edit profile page

• When I submit the form with one or more required fields left empty

• Then I should see an error message indicating which fields are required

• And my account details should not be updated until all required fields are completed Scenario 4: Update Profile Picture

• Given I am on the edit profile page

• When I upload a new profile picture and submit the form

• Then the new profile picture should be stored and displayed on my profile

Scenario 5: Handle Invalid Data

• Given I am editing my information

 • When I enter invalid data (e.g., improperly formatted email)

• Then I should see a validation error message and the update should be rejected

**From:** Kumar, Sushant J. <sjk50@student.le.ac.uk>  
**Sent:** 19 February 2025 10:05  
**To:** Ebtehaj, Ali <ae256@student.le.ac.uk>  
**Subject:** acceptance criteria

Acceptance criteria – for User stories (Gherkin format)

1. Landing page (weight=5)

As a user, I want to access a well-structured landing page, so that I can quickly understand the purpose of the website and be directed to sign up.

Scenario 1: Landing page loads successfully

• Given I am a visitor to the website

• When I navigate to the landing page (e.g., at "/")

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• And the page should display a clear header, main content area, and footer

Scenario 2: Clear communication of website purpose

• Given I am on the landing page

• When I view the page content

• Then I should see a prominent headline that explains the website’s purpose

• And I should see supporting text that highlights key features and benefits

Scenario 3: Prominent call-to-action for sign up

• Given I am on the landing page

• When I scroll or look at the main content

• Then I should see a clear and prominent call-to-action (CTA) button for signing up

• And clicking the CTA should direct me to the registration page

Scenario 4: Responsive design for various devices

• Given I access the landing page on a desktop or mobile device

• When I view the page

• Then the layout should be responsive and adapt to different screen sizes

• And the content, including the sign-up CTA, remains clear and accessible

2. Log in & sign up page (weight =5)

As a user, I want to register an account and log into my account, so that I can have a personalised experience.

Scenario 1: Successful Registration

• Given I am a new visitor on the registration page

• When I enter a valid name, email, username, and password that meet the required criteria

• And I click the "Register" button

• Then my account should be created

• And I should be redirected to the login page with a success message

Scenario 2: Registration with Existing Username or Email

• Given I am on the registration page

• When I enter a username or email that is already registered

• And I click the "Register" button

• Then I should see an error message indicating that the username or email already exists

• And my account should not be created

Scenario 3: Successful Login

• Given I have a registered account

• When I navigate to the login page

• And I enter my correct username (or email) and password

• And I click the "Sign in" button

• Then I should be successfully logged in

• And I should be redirected to my dashboard (or personalized home page)

Scenario 4: Login with Invalid Credentials

• Given I am on the login page

• When I enter an incorrect username or password

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• Then I should see an error message stating that the credentials are invalid

• And I should remain on the login page

Scenario 5: Required Field Validation

• Given I am on the registration or login page

• When I submit the form with one or more required fields empty

• Then I should see a validation error for each missing field

• And the form should not be submitted

3. View Dashboard (weight = 13)

As a User, I want to be able to track my progress including streaks, leaderboard and available courses once signed in with my profile. So that I can track all of my progress throughout the application.

Scenario 1: Dashboard Loads Successfully

• Given I am a registered user

• When I log in and navigate to the dashboard

• Then the dashboard should load without errors

• And it displays my profile information and progress overview

Scenario 2: Display User Progress and Streaks

• Given I have existing progress data (e.g., course completions, streak count)

• When I view the dashboard

• Then I should see my current progress metrics clearly (e.g., current streak, total score, number of courses completed)

Scenario 3: Display Leaderboard Information

• Given I have a position on the leaderboard

• When I view the dashboard

• Then a snapshot of the leaderboard (or a link/button to view full details) should be visible

• And my ranking is highlighted or easily identifiable

Scenario 4: Display Available Courses

• Given there are courses available on the platform

• When I view the dashboard

• Then I should see a section listing the courses that are available for me to enroll in

• And these courses are displayed with key information such as title, difficulty, and category

Scenario 5: Responsive Dashboard Layout

• Given I access the dashboard on various devices (desktop, tablet, mobile)

• When I view the dashboard

• Then the layout should adapt responsively

• And all progress metrics, leaderboard information, and available courses remain easily readable and accessible

4. Search and Filter Courses(weight=5)

As a Student, I want to search and filter IBM SkillsBuild courses by keywords and categories so that I can quickly find courses relevant to my interests.

Scenario 1: Display all courses by default

• Given I am a student on the courses page

• When no search term is entered and no category filter is selected

• Then I should see a list of all available IBM SkillsBuild courses

Scenario 2: Search courses by keyword

• Given I am on the courses page

• When I enter a keyword (e.g., "AI") in the search box and initiate a search

• Then the displayed course list should update to show only courses whose titles or descriptions contain "AI" (case-insensitive)

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• Given I am on the courses page

• When I select a specific category (e.g., "Cyber Security") from the category dropdown

• Then the course list should update to show only courses that belong to the "Cyber Security" category

Scenario 4: Combine search and filter

• Given I am on the courses page

• When I enter a keyword and select a category simultaneously and initiate the search

• Then the course list should display only courses that match both the keyword and the selected category

Scenario 5: No matching results

• Given I am on the courses page

• When I search with a keyword or select a category that does not match any courses

• Then I should see a message indicating "No courses found"

5. Knowledge test(weight=8)

As a student, I want my knowledge to be tested by answering a few questions so that I can ensure that my learning is complete and earn the certificate.

Scenario 1: Successful Knowledge Test and Certificate Awarding

• Given I am a student on the quiz page for a completed course

• When I answer all the quiz questions and submit the quiz

• And my score is equal to or above the passing threshold (e.g., 80%)

• Then I should be redirected to the quiz success page

• And a certificate should be automatically awarded to my account

Scenario 2: Failed Knowledge Test

• Given I am a student on the quiz page for a completed course

• When I answer the quiz questions and submit the quiz

• And my score is below the passing threshold

• Then I should be redirected to the quiz failure page

• And no certificate should be awarded

Scenario 3: Incomplete Quiz Submission

• Given I am on the quiz page

• When I attempt to submit the quiz without answering all mandatory questions

• Then I should see a validation error prompting me to answer all questions

• And the quiz should not be submitted until all required answers are provided

Scenario 4: Automatic Certificate Check

• Given I have already been awarded a certificate for this course

• When I pass the quiz

• Then the system should detect the existing certificate and avoid awarding a duplicate certificate

6. Certificate Order and Categories (weight=5)

As a user, I want to filter and sort my certificates based on relevance and importance so that I can easily find the most significant ones.

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• Given I have certificates from courses in various categories

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• Then I should see only the certificates for courses that belong to the "AI" category

Scenario 3: Filter certificates by course difficulty

• Given I have certificates from courses with varying difficulties

• When I select a difficulty level (e.g., "Intermediate") from the difficulty dropdown and apply the filter

• Then I should see only the certificates for courses that have "Intermediate" difficulty

Scenario 4: Combine category and difficulty filters

• Given I have certificates spanning multiple categories and difficulties

• When I select a specific category (e.g., "Cyber Security") and a difficulty (e.g., "Advanced") and apply the filters

• Then I should see only certificates that match both the "Cyber Security" category and "Advanced" difficulty

Scenario 5: Search for certificates by course title

• Given I have certificates with various course titles

• When I enter a keyword (e.g., "Data") in the search box and apply the filter

• Then I should see only certificates where the course title contains "Data" (case-insensitive)

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As a Student, I want the app to recommend courses based on my interests and completed courses so that I can easily find relevant learning materials.

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• Given I am a student who has not yet specified my interests or completed any courses

• When I access the recommendations section

• Then I should see a list of all available courses

• And the courses are displayed in a clear, grid layout

Scenario 2: Recommend Courses Based on Completed Courses

• Given I am a student who has completed one or more courses

• When I access the recommendations section

• Then the app should analyze my completed courses and recommend additional courses in similar categories or difficulties

• And the recommended courses should be prominently displayed with key details (title, category, difficulty)

Scenario 3: Recommend Courses Based on Specified Interests

• Given I have indicated my interests (for example, via my profile settings or a survey)

• When I view the course recommendations

• Then the app should prioritize and display courses that match my declared interests

• And courses that do not match should appear lower or be omitted

Scenario 4: Responsive Display of Recommendations

• Given I access the recommendations on different devices (desktop, tablet, mobile)

• When I view the recommended courses

• Then the layout should adjust responsively to ensure readability and usability

8. Learning history (weight=5)

As a student, I want to view a list of course I have enrolled with indication of completion so that I can track my progress effectively.

Scenario 1: Display enrolled courses in learning history

• Given I am a logged-in student with enrolled courses

• When I navigate to the learning history page

• Then I should see a list of all courses in which I am enrolled

• And each course entry should display key information (e.g., course title, category, difficulty)

Scenario 2: Indicate course completion status

• Given I have enrolled in one or more courses

• When I view my learning history

• Then each course should have a clear indicator showing whether it is completed (e.g., "Completed" or a completion percentage)

• And the indicator should be easily distinguishable from other course information

Scenario 3: Display message when no courses are enrolled

• Given I am a logged-in student with no enrolled courses

• When I navigate to the learning history page

• Then I should see a message such as "You haven't enrolled in any courses yet"

• And no course list should be displayed

Scenario 4: Responsive layout for learning history

• Given I access the learning history page on different devices (desktop, tablet, mobile)

• When I view the page

• Then the learning history list should display responsively

• And all course details and completion indicators remain clear and accessible

9. Edit User Information (weight = 5)

As a user, I want to edit my account details, including personal information and profile appearance, so that I can keep my information up to date.

Scenario 1: Display Edit User Information Page

• Given I am a logged-in user

• When I navigate to the "Settings" or "Edit Profile" page

• Then I should see a form pre-populated with my current personal information (e.g., username, email)

• And I should see an option to update my profile picture

Scenario 2: Successfully Update Personal Information

• Given I am on the edit profile page

• When I change my personal information (e.g., username, email) and submit the form with valid data

• Then my account details should be updated in the system

• And I should see a success message confirming the update

Scenario 3: Validation for Required Fields

• Given I am on the edit profile page

• When I submit the form with one or more required fields left empty

• Then I should see an error message indicating which fields are required

• And my account details should not be updated until all required fields are completed

Scenario 4: Update Profile Picture

• Given I am on the edit profile page

• When I upload a new profile picture and submit the form

• Then the new profile picture should be stored and displayed on my profile

• And if the upload fails, I should receive an appropriate error message

Scenario 5: Handle Invalid Data

• Given I am editing my information

• When I enter invalid data (e.g., improperly formatted email)

• Then I should see a validation error message and the update should be rejected