# **Overview, Scenarios, and Use Cases**

## Use Case – Register

A new unregistered user arrives at the homepage and wishes to create an account via the ‘Register’ button in order to gain access to the website’s many features.

**1. Description:**

Use case describes the process of how the unregistered user will become a registered account holder with the system.

**2. Actors:**

2.1 Unregistered User

2.2 System

**3. Preconditions:**

3.1 User has an active internet connection

3.2 System is available

**4. Primary Flow of Events:**

4.1 User arrives on website homepage

4.2 User clicks ‘Register’ button from navigation bar

4.3 User enters new ‘UserID’, ‘Password’, and ‘Repeat Password’

4.4 User clicks ‘Submit’ button

4.5 Temporary account is created to expire after 24 hours without email confirmation

4.6 System sends automated confirmation email to address listed as UserID

4.7 User clicks confirmation email link to successfully establish a permanent account

4.8 Terminate Use Case – Register

**5. Alternate Flows:**

**5.1 User Enters Prohibited Format into UserID Field**

If in Step 4.3, user enters a UserID without including ‘@’ and ending in a domain

1. Website notifies the user that a valid email address must be utilized
2. Return to Step 4.3

**5.2 User Enters Prohibited Format into Password Fields**

If in Step 4.3, user enters a Password that is less than six characters

1. Website notifies the user that passwords must be at least six characters
2. Return to Step 4.3

If in Step 4.3, user enters a Repeat Password that does not match Password

1. Website notifies the user that current passwords do not match
2. Return to Step 4.3

**5.3 User Neglects to Address Confirmation Email**

If in Step 4.7, does not complete confirmation email within 24 hours

1. The system deletes the user’s temporary account
2. Return to Step 4.2

## Use Case – Login

A registered user arrives at the homepage and wishes to log into their existing account via the ‘Login’ button in order to gain access to the website’s many features.

**1. Description:**

Use case describes the process of how the registered user will access their account.

**2. Actors:**

2.1 Registered User

2.2 System

**3. Preconditions:**

3.1 User has an active internet connection

3.2 System is available

3.3 User has a permanent account

**4. Primary Flow of Events:**

4.1 User arrives on website homepage

4.2 User clicks ‘Login’ button from navigation bar

4.3 User enters their account ‘UserID’ and ‘Password’

4.4 User clicks ‘Login’ button

4.5 Website successfully redirects to user’s account dashboard

4.6 Terminate Use Case – Login

**5. Alternate Flows:**

**5.1 User Performs Invalid UserID and Password Combination**

If in Step 4.4, user submits any combination which is not an exact system match

1. Website notifies the user that the current UserID and Password pairing does not exist in the database
2. Return to Step 4.3

**5.2 User Does Not Know Account Password**

If in Step 4.3, user knows their UserID but is unable to recall its Password

1. User clicks ‘Forgot Password’ button beneath ‘Login’
2. User enters UserID into the ‘Email Address’ field
3. User selects ‘Submit’ button
4. Website notifies the user that a password reset link has been sent
5. User clicks password reset link from their primary email address
6. Redirected user enters new matching ‘Password’ and ‘Repeat Password’
7. Go to Step 4.1

**5.3 User Performs First-Time Login**

If in Step 4.5, user is logging into their account for the first time

1. Website successfully redirects user to complete ‘Account Settings’ form
2. User completes ‘Account Settings’ form and clicks ‘Submit’
3. Website successfully redirects user to complete new ‘Course Form(s)’
4. User completes ‘Course Form(s)’ and clicks ‘Submit’
5. Go to Step 4.5

## Use Case – Add Course

A registered user is in possession of their course syllabi and wishes to input their course data into the system.

**1. Description:**

Use case describes the process of how the registered user will add courses.

**2. Actors:**

2.1 Registered User

2.2 System

**3. Preconditions:**

3.1 User has an active internet connection

3.2 System is available

3.3 User has a permanent account

3.4 User is logged into the system

**4. Primary Flow of Events:**

4.1 User logs into their account

4.2 Website successfully redirects to user’s account dashboard

4.3 User selects ‘Course Info’ button (‘🛈’ icon) from the dashboard

4.4 User selects ‘Add Course’ tile (‘**+**’ icon)

4.5 User accurately inputs course information

4.6 User clicks ‘Submit’

4.7 User assigns due dates for each course deliverable specified on prior form

4.8 User clicks ‘Submit’

4.9 Course information is successfully stored in the database

4.10 Terminate Use Case – Add Course

**5. Alternate Flows:**

**5.1 User Enters Prohibited Format into Numerical Fields**

If in Step 4.5, user enters a percentage value which is not between 1 and 100

1. Website notifies the user that percentages must adhere to 1 ≤ % ≤ 100
2. Return to Step 4.5

If in Step 4.6, user has toggled a ‘Custom’ grading scale and left thresholds blank

1. Website notifies user that custom grading scale thresholds cannot be empty
2. Return to Step 4.5

If in Step 4.6, user has toggled a ‘Custom’ grading scale and entered a grade threshold which is higher than the letter grade which alphabetically precedes it

1. Website notifies user that subsequent letter grades must have lower bounds
2. Return to Step 4.5

If in Step 4.6, user has toggled a grading category but failed to specify a quantity

1. Website notifies user that numerical quantity value must be ≥ 1.
2. Return to Step 4.5

If in Step 4.6, user has toggled a grading category but failed to specify a weight

1. Website notifies user that a weight value between 1 ≤ % ≤ 100
2. Return to Step 4.5

If in Step 4.6, user has input weight category values which do not add up to 100

1. Website notifies user that cumulative weight category values must be 100
2. Form submission is rejected
3. Return to Step 4.5

**5.2 User Neglects to Address Any Form Data Request**

If in Step 4.6, user has failed to address any data request within the form

1. Website notifies the user that all requests for information must be addressed
2. Form submission is rejected
3. Return to Step 4.5

## Use Case – Grade Entry

A registered user has received their latest grade feedback and wishes to input its data into the system.

**1. Description:**

Use case describes the process of how the registered user will enter grade data.

**2. Actors:**

2.1 Registered User

2.2 System

**3. Preconditions:**

3.1 User has an active internet connection

3.2 System is available

3.3 User has a permanent account

3.4 User is logged into the system

3.5 User has added at least one course

**4. Primary Flow of Events:**

4.1 User arrives on website homepage

4.2 User logs into their account

4.3 Website successfully redirects to user’s account dashboard

4.4 User selects ‘Grade Entry’ button (‘📃’ icon) from the dashboard

4.5 System automatically generates shorthand list of eligible score input fields entitled “<Category Name> #<Number>:”, grouped by course, for any deliverable which is both currently past its due date and lacking existing grade data

4.6 User inputs the associated score(s) as percentage value(s) up to 4 decimal places

4.7 User clicks ‘Submit’

4.8 Grade data is successfully stored in the database

4.9 Terminate Use Case – Grade Entry

**5. Alternate Flows:**

**5.1 User Enters Prohibited Format Into Grade Entry Field**

If in Step 4.6, user enters a numerical score which is not between 0 and 100

1. Website notifies the user that scores must adhere to 0 ≤ SCORE ≤ 100
2. Return to Step 4.6

**5.2 User Needs to Adjust Prior Grade Submission**

If in Step 4.5, the user needs to adjust a prior grade submission, the desired field will not automatically generate due to its having existing grade data

1. User selects ‘Show All Previous’ toggle option within ‘Grade Entry’ dashboard
2. User inputs updated score(s) in place of existing scores for relevant field(s)
3. Return to Step 4.7

**5.3 User Cannot Locate Desired Grade Entry Field**

If after Alternate Flow 5.2, the user still cannot locate desired grade entry field

1. User selects ‘Course Info’ button from the dashboard
2. User selects the ‘Edit’ (✎ icon) button from the course tile corresponding to the missing grade field
3. User ensures the appropriate grade categories and quantities are designated for inclusion of the desired grade entry field
4. User clicks ‘Submit’
5. User ensures an appropriate past deadline is attributed to the desired grade entry field
6. User clicks ‘Submit’
7. Proper course configuration data is successfully stored in the database
8. Website redirects to user’s account dashboard
9. Return to Step 4.4