USER ACCEPTANCE TESTING

1.INTRODUCTION

- **PROJECT OVERVIEW :**
    This Academix Portal – Course management system is developed using Django for backend with HTML , CSS , JavaScript and elements of bootstrap for frontend presentations . it facilitates online learning by allowing instructors to create courses and upload materials and interact with students and listen to their feedbacks.

- **PURPOSE OF UAT (User Acceptance Testing) :**
    User Acceptance Testing is to ensure that the system meets both user's functional requirements and user experience expectations and at the same time being easy and intuitive to use.

2. UAT Objectives

To Verify the system's functionality, usability, and overall user experience.

Ensure compatibility across different browsers and devices.

3. ACCEPTANCE CRITERIA :

1. Secure registration and authentication with institutional email
2. Ability to view "My Profile" section where I can see and edit my personal information and can update if required.
3. Ability to enroll in a course as a student and view the course content.
4. Ability to to offer my courses to students of different batches , also have the ability to view and edit the students in my course as a faculty member.
5. Ability to submit assignments , quizzes and the ability to to interact with the faculty as a student.
6. Safe and secure login every time.
7. Data consistency and reliability.
8. Safe information , securely stored.
9. Proper Content management (ability to upload pdfs , video links and slides) as a faculty.
10. Should be easy to use and should have cross browser compatibility.
11. User use guides and proper webpages for error handling.

4. TEST SCOPE :

Course Creation and Management
User Registration and Management

Content Upload and Access
Assignment Submission and Feedback
Responsive Design and Cross-Browser Compatibility

5. TESTING :

Format:
TestCase ID :
Description :
Precondition :
TestSteps :
Expected Results :
Actual Results :
Pass/Fail Status :

Testing done on "Google Chrome Version 119.0.6045.159 (Official Build) (arm64)" running locally on machine having "Jetbrains Pycharm 2023.2.1(Professional Edition) Build #PY-232.9559.58, built on August 22, 2023"

TestCaseID : UAT_TC1
Description: Secure registration with valid DA-IICT institutional email
Precondition: Student or Faculty having Email with DA-IICT domain
TestSteps:
https://scribehow.com/shared/Registering_for_student_account_on_ACADEMIX_PORTAL_
_5A3uCgbjQEaVpafPcguTYw
Expected Results :
Registration Successful
Actual Results :
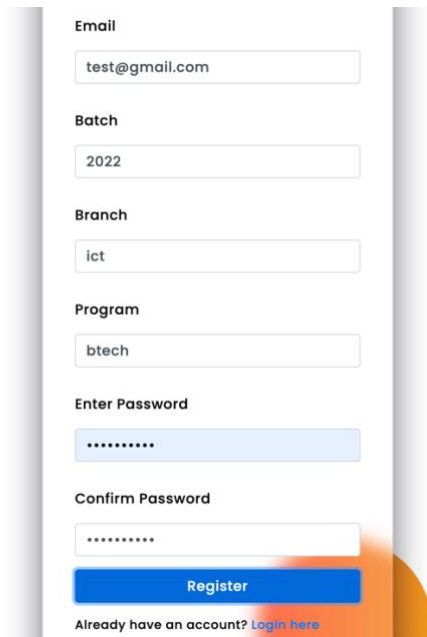Registration Successful

Pass/Fail Status : PASS

TestCaseID : UAT_TC2
Description: Secure registration with any email that is not DA-IICT
Precondition: Student or Faculty any Email ID
TestSteps:
Go to the Academix portal website , click on Student Login then click on register here , enter your name and details , click on Register button.

Expected Results :
Registration does not happen
Actual Results :
Registration button does not press or not getting pass registration stage

Pass/Fail Status : PASS

TestCaseID : UAT_TC3
Description: Secure Login
Precondition: Student or Faculty having Registered Email with DA-IICT domain
TestSteps:
https://scribehow.com/shared/Logging_in_to_the_ACADEMIX_PORTAL__BeVF1lJtRgu4sXsyXVtB-g

Expected Results :
Logged in and showing dashboard
Actual Results :
Logged in and showing dashboard

Pass/Fail Status : PASS

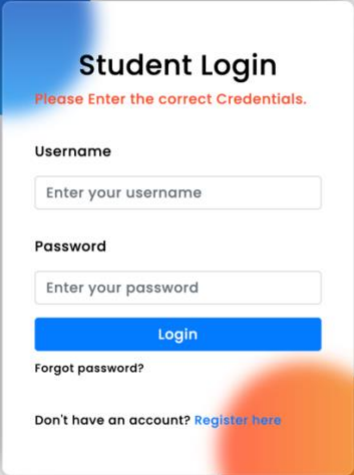
TestCaseID : UAT_TC4
Description: Invalid Login attempt
Precondition: anything on username and password field
TestSteps:
Go to the Academix portal website , click on Student Login then enter any random letters or numbers or any special characters on username and password field.
Expected Results :

Please enter correct credentials
Actual Results :
Not getting passed from login screen

Pass/Fail Status : PASS

TestCaseID : UAT_TC5
Description: Login with valid email but short invalid password
Precondition: valid institutional email
TestSteps:
Go to ACADEMIX PORTAL and login to student , now enter any valid email address and enter any password that is less than 8 characters
Expected Results :
Enter password greater than 8 characters
Actual Results :

Pass/Fail Status : PASS

TestCaseID : UAT_TC6
Description: Accessing or updating My Profile
Precondition: Student or Faculty with registered login credentials
TestSteps:
https://scribehow.com/shared/Visiting_and_Updating_User_Profile_Information_on_ACADEMIX_PORTAL__iucZJXtJQ7OQqZh1-YPo9A

Expected Results :
Profile information getting updated
Actual Results :
Profile information updated

Pass/Fail Status : PASS

TestCaseID : UAT_TC7
Description: Course Enrollment as student
Precondition: Student or Faculty having Registered with proper credentials
TestSteps:
https://scribehow.com/shared/Enroll_in_any_Course_at_ACADEMIX_PORTAL__CIsQS389Tb6ZpbKljed1CwExpected

Results :
Enrolled in course and got notified about it
Actual Results :
One click enrollment and notified

Pass/Fail Status : PASS

TestCaseID : UAT_TC8
Description: View Course Content
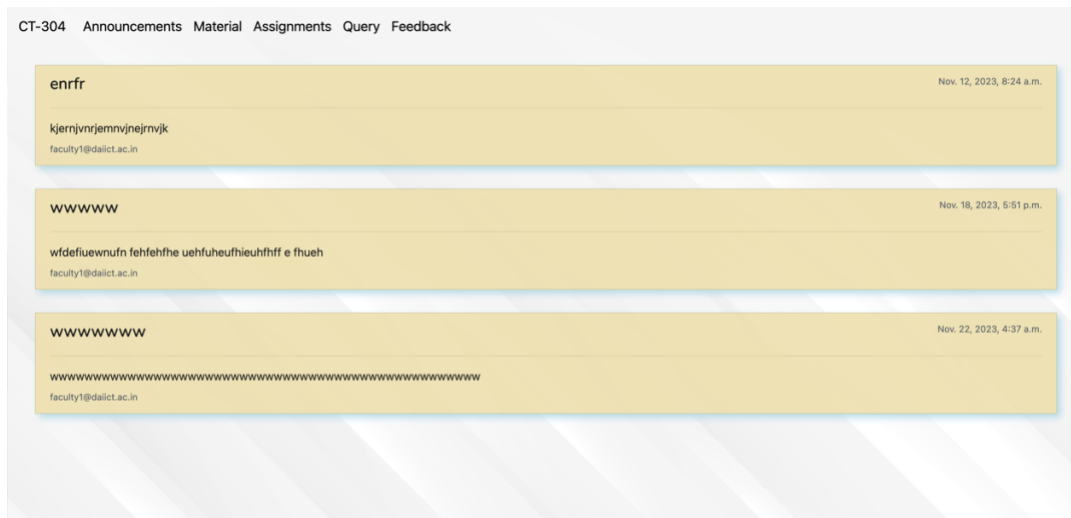Precondition : Student or Faculty having Registered with proper credentials
TestSteps:
https://scribehow.com/shared/Enroll_in_any_Course_at_ACADEMIX_PORTAL__CIsQS389Tb6ZpbKljed1CwExpected
Expected Results :
Showing course content for enrolled course
Actual Results :
Showing course content for enrolled course

Pass/Fail Status : PASS

TestCaseID : UAT_TC9
Description: login as a faculty member and view/edit courses
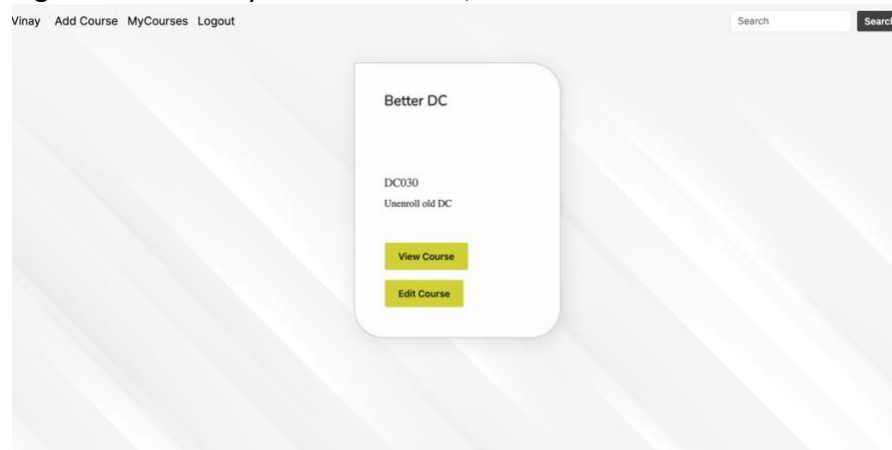Precondition: Faculty having proper credentials
TestSteps:
https://scribehow.com/shared/How_to_Login_as_a_faculty_and_edit_course_details__e8E
BqbgsR5edoAJJ8GgWuw
Expected Results :
Signed in as faculty and able to see/edit the course
Actual Results :
Signed in as faculty and able to see/edit the course

Pass/Fail Status : PASS
TestCaseID : UAT_TC10
Description: Adding courses to My courses list
Precondition: Faculty having proper login credentials
TestSteps:
https://scribehow.com/shared/Creating_and_Adding_a_Course_to_MyCourses_in_ACADE
MIX_PORTAL__7NRFS0OIQpGx5JJipLSAzA
Expected Results :

New course added to the dashboard of that faculty
Actual Results :
New course not added.

Pass/Fail Status : FAIL

TestCaseID : UAT_TC11
Description: Assignment Submission
Precondition: Student logged in with any course/s enrolled and open to accept for submissions
TestSteps:
https://scribehow.com/shared/Submit_course_assignments_in_ACADEMIX_PORTAL__tDdSJo4xQ5me4jXBmenWdg
Expected Results :
Assignment submitted
Actual Results :
Assignment submitted

Pass/Fail Status : PASS

TestCaseID : UAT_TC12
Description: Interaction with the faculty of that course
Precondition: Student having logged in with proper credentials and enrolled in any course.
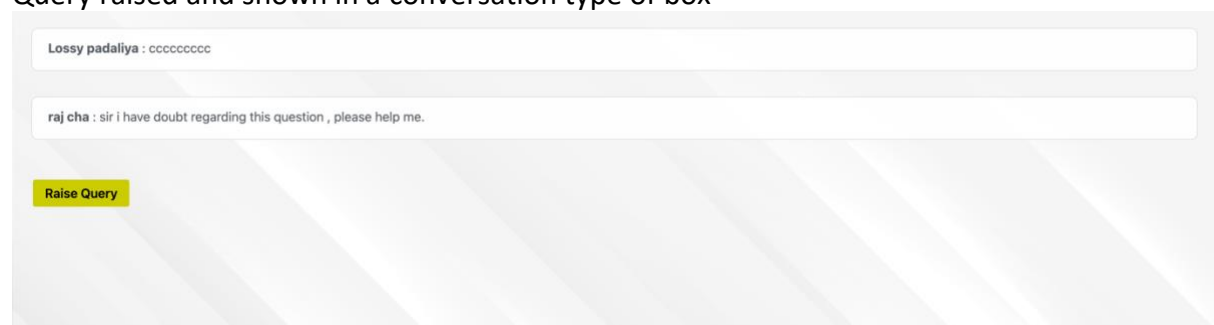TestSteps:
https://scribehow.com/shared/How_to_Submit_a_Query_for_any_course_in_ACADEMIX_PORTAL__-JoA7SMQR1GPw2QW1PdTFQ
Expected Results :
Query is raised to the respective course faculty
Actual Results :
Query raised and shown in a conversation type of box

Pass/Fail Status : PASS

TestCaseID : UAT_TC13
Description: Content upload by faculty
Precondition: Faculty with proper credentials and upload material.
TestSteps:
https://scribehow.com/shared/How_to_Add_Announcement_and_Study_Material_to_a_Course_as_a_faculty_in_ACADEMIX_PORTAL__WlTRjOTZTBaXkjKr7sBHZQ
Expected Results :
Materials are uploaded
Actual Results :
Materials are uploaded

Pass/Fail Status : PASS
TestCaseID : UAT_TC14
Description: Course Feedback for student.
Precondition: Student Registered Email with DA-IICT domain with password
TestSteps:
https://scribehow.com/shared/How_to_give_course_feedbacks_in_ACADEMIX_PORTAL__11Qo5ebbQrykJLADtICapQ
Expected Results :
Feedback submitted successfully
Actual Results :
Feedback submitted successfully in an course

Pass/Fail Status : PASS

TestCaseID : UAT_TC15
Description: Seeing enrolled students in a particular course by a faculty.
Precondition: Faculty logged in with their credentials and providing a course and one or more student/s enrolled in that course.
TestSteps:
https://scribehow.com/shared/View_enrolled_students_in_a_particular_course_as_a_faculty_in_ACADEMIX_PORTAL__rAMPPwhxT2qkhNoILY1YwA
Expected Results :
List of enrolled students
Actual Results :
Shows enrolled students and access to their individual profiles

Pass/Fail Status : PASS

TestCaseID : UAT_TC16
Description: Search for enrolled courses in academix portal as student.

Precondition: Logged in as a student with proper credentials and should be enrolled in that course whose name is being searched.

TestSteps:

https://scribehow.com/shared/How_to_Search_and_View_a_Course_on_ACADEMIX_PORTAL__UZo-SLyHTe-D-BwdqjeO-A

Expected Results :

Searched course is shown

Actual Results :

Searched course is shown on the dashboard
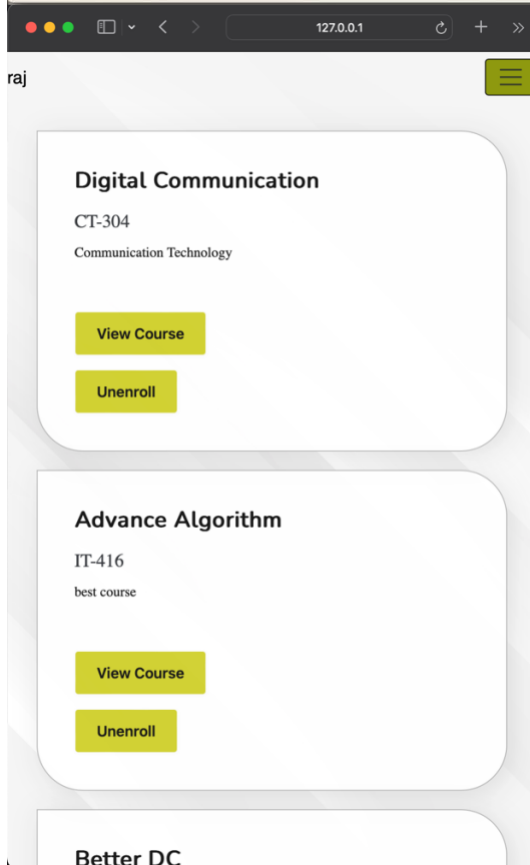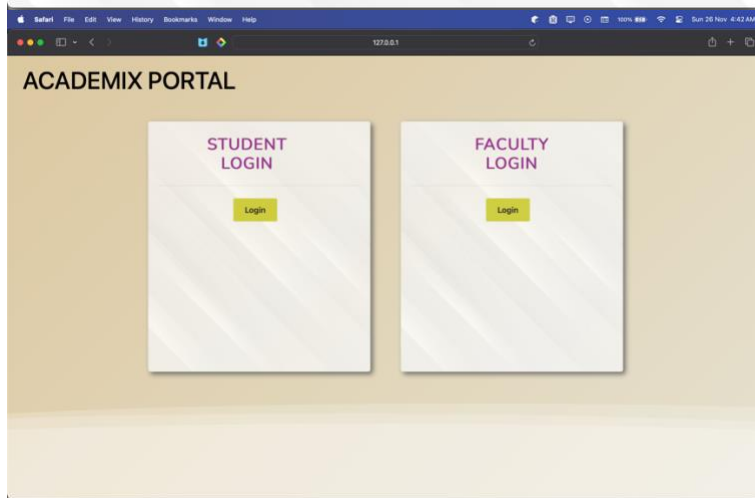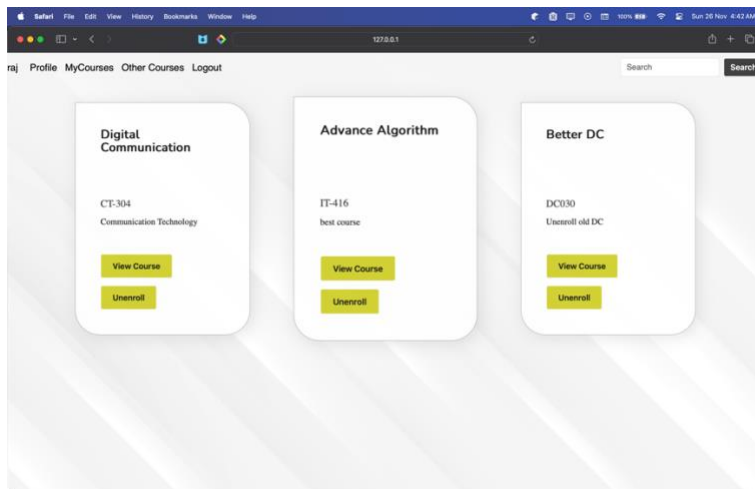

Pass/Fail Status : PASS

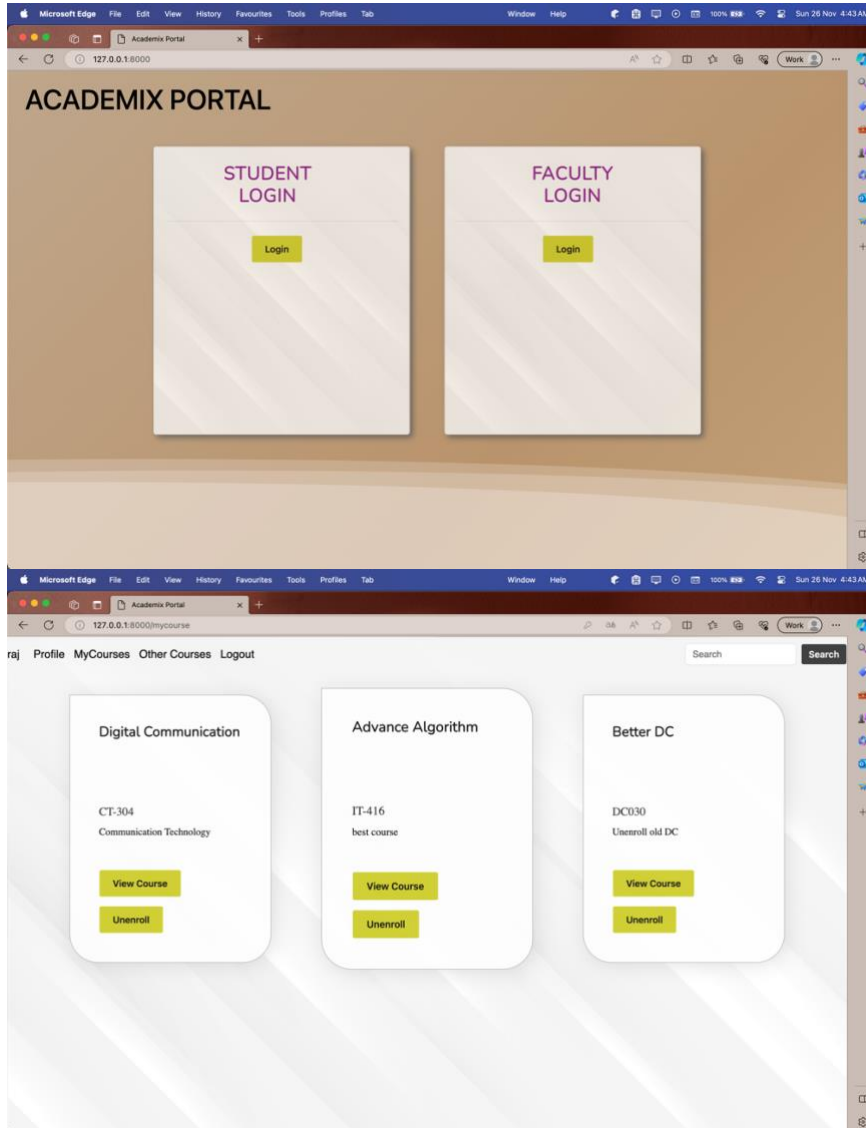TestCaseID : UAT_TC17
Description: Cross Browser compatibility
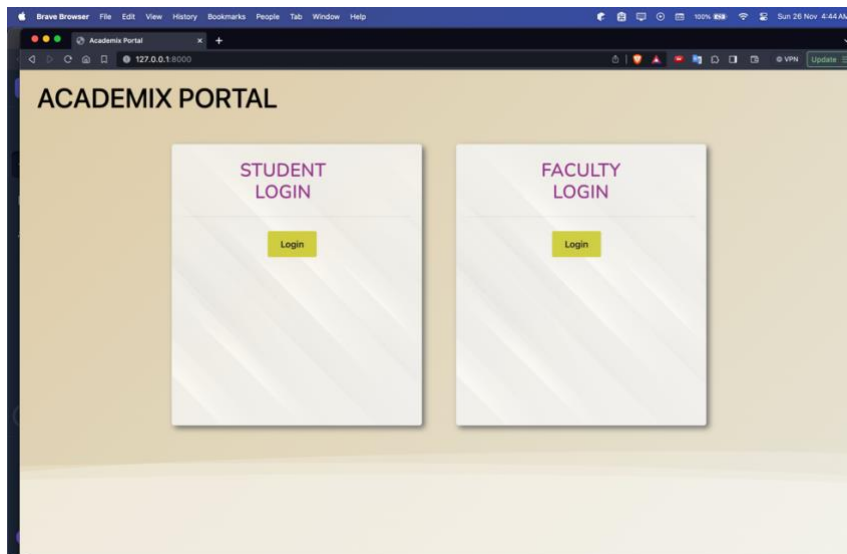Precondition: Access to the browser and updated to the latest version
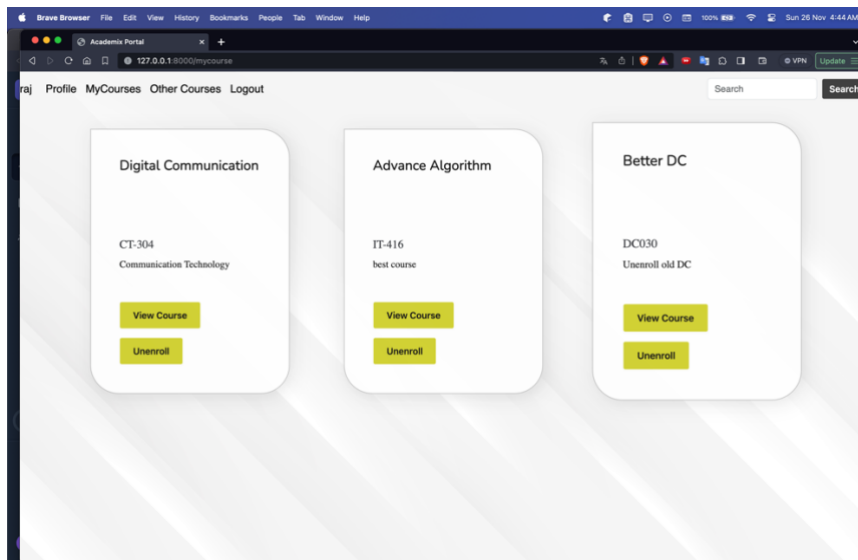TestSteps:

    Checking in.. Safari…

Search **Search**

Digital Communication

CT-304

Communication Technology

View Course

Unenroll

Advance Algorithm

IT-416

best course

View Course

Unenroll

Better DC

DC030

Unenroll old DC

View Course

Unenroll

ACADEMIX PORTAL

STUDENT LOGIN

Login

FACULTY LOGIN

Login

Digital Communication

CT-304

Communication Technology

View Course

Unenroll

Advance Algorithm

IT-416

best course

View Course

Unenroll
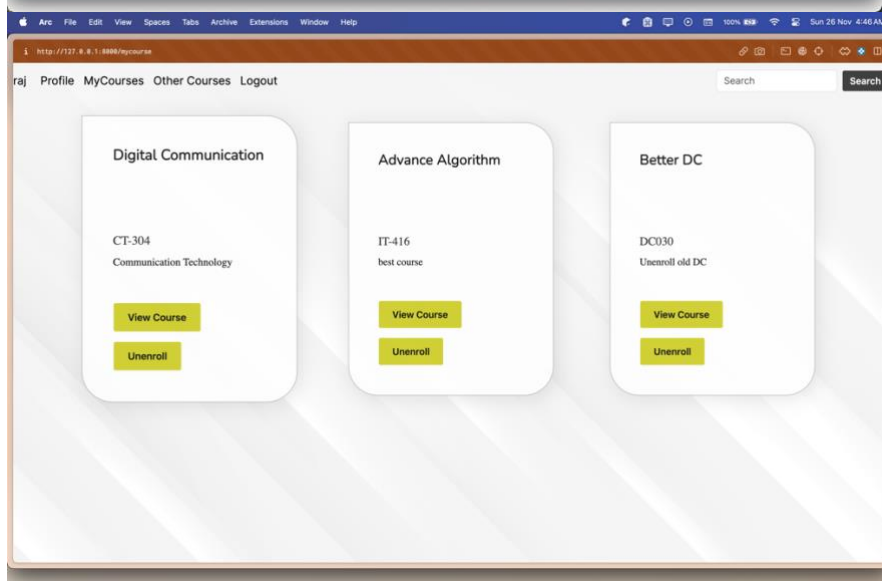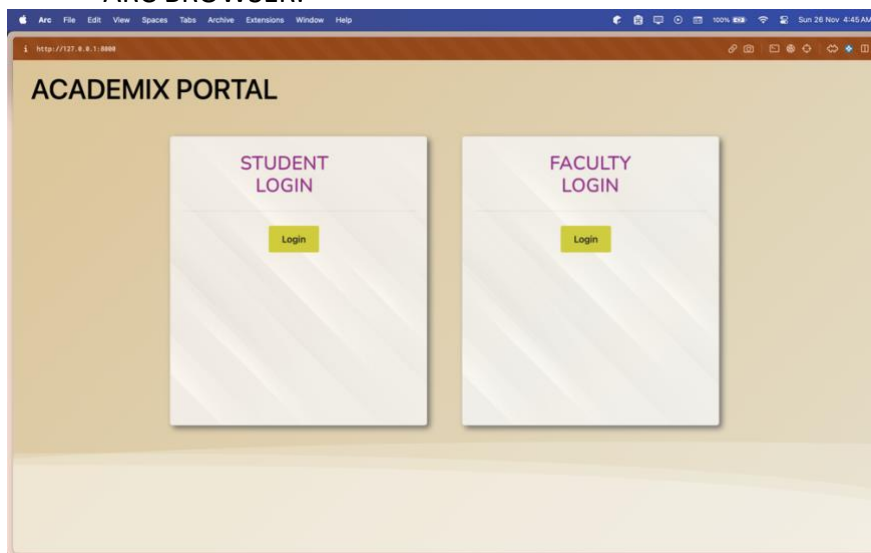
Better DC

MICROSOFT EDGE:

BRAVE BROWSER:

ARC BROWSER:

Expected Results :
Work flawlessly on every browser
Actual Results :
Works

Pass/Fail status : PASS

6. TEST CASE EXECUTION:

Based on the use of customer and the priority of the features to the customer , the test cases are executed manually and that too multiple times and in multiple platforms to ensure robustness of the system.

TEST DATA : Test login data and uploading materials information is completely complying with customer's use case and generated freshly to check the course management system site or the ACADEMIX PORTAL.

7. RISKS AND CONTINGENCIES :

- Data Privacy / uploaded material safety / user information safety
  Solution : implemented an robust database which stores all the login information in SHA-256 Encryption at remote AWS server which is secure and reliable
- Performance Bottlenecks:
  Solution : Hosting of the site on a reliable and fast server with faster loading times and very smooth performance on any device
- User Adoption: users may find it difficult to adapt to this new academix portal course management system affecting their willingness to participate in UAT
  Solution : provide users with properly documented training and support resources which are easy to understand , intuitive and step by step , which listenes to user's feedback.
- Security Incidents : any unwanted data breach at server or hacking attempt on site
  Solution : constantly monitoring and improvement in security protocols and implementing high level of privacy and security.

7. EXIT CRITERIA :

When all the testcases are passed , then we can end the User Acceptance testing to meet customer's demand.
To end the UAT the exit criteria are as follows :

- Acceptance of UserStories
- User Documents Revised
- Performance and robustness goals met
- Security Requirements met
- User Training Resources available

- All critical defects resolved
- All the test cases executed properly.

All the above mentioned criteria are met properly and the site is ready for deployment and mass use, the site is reliable and meets user requirements before it goes live , no major bugs found.