# Test Case Document

Flex Project

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| **TC ID** | **Feature** | **Description** | **Preconditions** | **Steps** | **Input Data** | **Expected Result** |
| --- | --- | --- | --- | --- | --- | --- |
| TC01 | Login | Valid login credentials | User registered | Enter username and password | 22k5024, hashedPass | Redirect to dashboard |
| TC02 | Login | Invalid password | User registered | Enter incorrect password | 22k5024, wrongPass | Show error: "Invalid credentials" |
| TC03 | Change Password | Change to new password | User logged in | Enter current + new password | old123, new123 | Password updated |
| TC04 | Course Registration | Student registers in a course | Course open for registration | Select course & submit | CS101 | Show: "Registered successfully" |
| TC05 | Course Registration | Teacher assigns self | Course unassigned | Select course & assign | 22k5144, CS102 | Success confirmation |
| TC06 | Attendance (Teacher) | Mark attendance | Teacher logged in | Select course > mark attendance | Present/Absent | Attendance saved |
| TC07 | Attendance (Student) | View own attendance | Records exist | Click "View Attendance" | - | Display attendance history |
| TC08 | Marks Upload | Teacher uploads marks | Course assigned | Enter marks for students | quiz1=10 | Marks saved |
| TC09 | Marks View | Student views marks | Marks uploaded | Click "View Marks" | - | Display detailed marks |
| TC11 | Challan | View fee challan | Challan generated | Click "View Challan" | - | PDF view/download |
| TC12 | Timetable | View timetable | Registered in courses | Click "Timetable" | - | Personalized schedule shown |
| TC13 | Withdraw Course | Student withdraws | Course is active | Click withdraw > confirm | CS201 | Course removed from list |
| TC14 | Add Course | Instructor adds course | Instructor authenticated | Add course details | NewCourse101 | Added to course list |
| TC15 | Remove Course | Instructor removes course | Course assigned | Select > Remove | CS301 | Course deleted |
| TC16 | Feedback | Student submits feedback | Course exists | Rate & comment | 4 stars, Good | Feedback saved |
| TC17 | Feedback View | Teacher views feedback | Feedback exists | Click feedback | - | Feedback listed |
| TC18 | Image Upload | Upload profile picture | User logged in | Click upload > select file | abc.jpg | Image stored & previewed |
| TC19 | Hashing | Password stored hashed | Password submitted | View in DB (check manually) | abc123 | Stored hash (not plaintext) |
| TC20 | Invalid Form | Submit without  mandatory fields | Login form | Leave empty > submit | - | Show validation error |
| TC21 | Session Expiry | Auto logout after idle | User logged in | Wait 1 hour | - | Forced logout |
| TC22 | Security | Try SQL Injection | Login form | user' OR '1'='1 | - | Show error: prevent access |
| TC23 | Error Upload | Upload unsupported image | Upload profile | Upload .exe file | - | Error: "Unsupported format" |