| **Login** | | | | |
| --- | --- | --- | --- | --- |
| **Test Case** | **Input Data** | **Expected Output** | **Actual Output** | **Comments** |
| TC1 | Email: user@example.com, Password: validPass123 | Successful login and redirection to dashboard | Successfully login to the main page | Valid email and password |
| TC2 | Email: user@com, Password: validPass123 | Error message: "Invalid email format" | “Please enter a valid email address.” | Invalid email format |
| TC4 | Email: notexist@example.com, Password: validPass123 | Error message: "User not found" | “User not found” | Email not registered |
| TC5 | Email: user@example.com, Password: wrongPass123 | Error message: "Incorrect password" | "Incorrect password" | Incorrect password |
| TC6 | Email: suspendedUser@example.com, Password: validPass123 | Error message: "Account suspended" | "Account suspended" | Suspended account |
| TC7 | Email: bannedUser@example.com, Password: validPass123 | Error message: “You have been banned. Access denied.” | “You have been banned. Access denied.” | Banned account |
| **Post Creation (Ingredients, Category, and Picture)** | | | | |
| TC1 | Ingredients: Tomato, Onion, Quantity: 200g, Category: Lunch, Image: .jpg | Successful post creation | Post successfully created and shown on main page | Valid inputs |
| TC3 | Ingredients: Tomato, Quantity: -200g, Category: Lunch, Image: .jpg | Error message: "Invalid quantity" | "Invalid quantity" | Invalid quantity (negative value) |
| TC4 | Ingredients: Tomato, Onion, Quantity: 200g, Category: Breakfast, Image: .exe | Error message: "Unsupported file format" | "Unsupported file format" | Invalid image format |
| TC5 | Ingredients: Tomato, Onion, Quantity: 200g, Category: Empty Image: .jpg | Error message: “Please fill in all fields before submitting.” | “Please fill in all fields before submitting.” | Invalid category |
| **Search Function (Post and User Search)** | | | | |
| TC1 | Search term: tomato | Search results with posts containing Tomato | Show posts containing Tomato | Valid search term |
| TC2 | Search term: 2000 kcal | Search results with posts containing 2000 kcal | Show posts containing 2000 kcal | Valid search term for calories |
| TC3 | Search term: pencil (non-existent food item) | Error message: "No results found" | Empty results | Invalid search term (non-existent) |
| TC4 | Search term: (empty) | Error message: "Please enter a search term" | No error, shows all posts | Empty search query |
| **Notifications & Admin Functionality** | | | | |
| TC1 | Account A: Like, Comment, Flag on Account B’s post | Notification received on Account B for Like, Comment, and Flag | Notification received on Account B for Like, Comment, and Flag | Valid notification functionality |
| TC2 | Account C: Like and Comment on Account A’s post | New notification for Account B showing Like and Comment | New notification for Account B showing Like and Comment | Refresh notifications to show new activity |
| TC3 | Flag Account A’s post via Account B | Admin flags post, status changes in Admin view | Flag notification appears on Admin View | Admin flagging functionality |
| TC4 | Admin suspends Account B for 1 minute | Account B cannot log in during suspension | “You have been suspended. Please contact support” | Admin suspension functionality |
| TC5 | Admin bans Account D | Account D cannot log in due to ban | “You have been banned. Access denied.” | Admin banning functionality |
| TC6 | Admin gives warning to Account A | Account A receives warning notification | Account A receives warning notification in notifications tab | Admin warning functionality |
| TC7 | Account B logs in after suspension period | Account B successfully logs in after suspension expires | Account B logs in successfully | Admin suspension expiration validation |
| TC8 | Account A logs in after receiving warning | Account A can still log in and view notifications | Account A logs in successfully | Admin warning expiration validation |
| **Profile and Daily Meals** | | | | |
| TC1 | Add daily meal with ingredients: Tomato, Onion, Quantity: 100g | Meal added successfully | Meal added successfully | Successful meal addition |
| TC2 | Remove ingredient from daily meal | Ingredient successfully removed | Ingredient successfully removed | Valid ingredient removal |
| TC3 | Add meal and verify calorie increase | Daily calorie count increases by meal calories | Daily calorie count correctly updates and progress bar updateas | Calorie tracking and progress bar |
| TC4 | Verify daily meals auto delete every 10 minutes (demo feature) | Meals are automatically deleted after set time | Daily meals disappeared after 10 minutes | Timer-based automatic deletion |
| TC5 | Update height: 175 cm, Weight: 80 kg, Target Weight: 70 kg | Successful update of profile | Height: 175cm,  Weight: 80 kg,  Target Weight: 70 kg | Successful profile update |
| TC6 | Change profile picture to a new valid image | Profile picture updated successfully | Profile picture updated successfully | Profile picture update validation |