

No.	Test Case	Test Input	Expected Behaviour	Error Handled
Example 0.	Register as Applicant	Input Invalid Name (contain special character or number): Name#123 Input Invalid NRIC : NRIC123 Input Correct Name and Correct NRIC Input : quit	Account created and saved into the ApplicantList.csv . Will not allow Invalid NRIC format If input == quit: will print "Registration cancelled. Registration failed" and quit the register account function and went back to the main menu.	Invalid Name Input : print(✗ Name must contain only letters and spaces. Please enter a valid name.) Invalid NRIC Input: print(✗ Invalid NRIC format. Must be S/T followed by 7 digits and ending with a letter.)
1	Valid User Login	Input correct name and NRIC	Allow login	NA
2	Invalid NRIC	Input Invalid NRIC not in system: S000000A Input Invalid NRIC format: nric123	Will not allow Invalid NRIC or NRIC format	Invalid NRIC or NRIC format: print(✗ Applicant not found. Please register if you're a first-time user.)
3	Invalid password	Input Invalid password: wrong	Will not allow if password != password in system	Invalid password: print(✗ Incorrect password. You have 2 attempts remaining.) and allow reinput 2 more times. If continued wrong password input, print(✗ Too many failed attempts. Please try again later. ? Login failed. Returning to main menu.)

4	Password change functionality	<p>Password change from password to password1</p> <p>Password (old) Input: password</p> <p>Password (new) Input: password1</p>	<p>System to update new password and allow login only using new password</p> <p>Will not allow old password to login</p> <p>Allows new password to login</p>	<p>Old password input: print(✗ Incorrect password. You have 2 attempts remaining.) and allow reinput 2 more times. If continued wrong password input, print(✗ Too many failed attempts. Please try again later. ? Login failed. Returning to main menu.)</p>
5	Project Visibility Based on User Group and Toggle	<p>Single, 35 y/o applicant login to view available projects</p> <p>Married, 40 y/o applicant login to view available projects</p> <p>Married, 19 y/o applicant login to view available projects</p>	<p>Only show visible projects available for 'single' applicants (2-room flats)</p> <p>Shows all visible projects as applicant is eligible for all flats (2-Room & 3-Room)</p> <p>Shows no projects as applicant is not eligible</p>	<p>Married, 19 y/o login: print(! As a married applicant under 21 years old, you are not eligible for BTO applications yet. Married applicants must be 21 years old and above to apply for any flat type.)</p>
6	Project Application	<p>Married, 37 y/o applicant apply for project</p> <p>Single, 35 y/o applicant apply for project</p> <p>Married, 19 y/o applicant apply for project</p>	<p>Shows all visible projects as applicant is eligible for all flats (2-Room & 3-Room)</p> <p>Only show visible projects available for 'single' applicants (2-room flats)</p>	<p>Married, 19 y/o login: print(? As a Married applicant, you must be at least 21 years old.)</p>

7	Viewing Application Status after Visibility Toggle Off	Applicant that applied with project status “Booked” and project has visibility off views application status	Allow application status to be viewed	NA
8	Single Flat Booking per Successful Application	Applicant applied for project with project status “Booked” tries to submit application	Unable to see any projects to apply for	print(? You have already applied for a project. You cannot submit multiple applications.)
9	Applicant’s enquiries management	Submit new Enquiry View my Enquiries Edit Enquiry Delete Enquiry	Enquiry is submitted and can be viewed Submitted enquiry is displayed Submitted enquiry can be edited, and changes are reflected when enquiries are viewed again Submitted enquiry can be deleted, and no longer shows up when enquiries are viewed again	NA
10	HDB Officer Registration Eligibility	Officer tries to register for project while already being an applicant for that project Officer registers for a project, then tries to apply to project as applicant.	System prevents officer from registering to a second project; Registration status of all projects shown as “No - Clash”	? You are already registered to handle a project. Project does not show up as an eligible project

11	HDB Officer Registration Status	<p>Submit project registration</p> <p>View Registration Status before Registration accepted</p> <p>View Registration Status after Registration accepted</p>	<p>Status of registration shown as “Pending”</p> <p>Status of registration shown as “Approved”</p>	NA
12	Project Detail Access for HDB Officer	View project details	Officers can always access full project details, even when visibility is hidden	NA
13	Restriction on Editing Project Details	No function to edit project details in OfficerMenu	Edit functionality is disabled or absent for HDB Officers.	NA
14	Response to Project Enquiries	<p>View project enquiries</p> <p>Reply to an enquiry</p>	Officers & Managers can access and respond to enquiries efficiently.	NA
15	Flat Selection and Booking Management	<p>After Manager has approved (Successful) the application, the following option will appear for Officer.</p> <p>1. Process Application Status</p>	Officers retrieve the correct application, update flat availability accurately, and correctly log booking details in the applicant’s profile.	NA
16	Receipt Generation for Flat Booking	<p>If applicationStatus == booked, the following option will appear for the Officer</p> <p>2. Generate Booking Receipt</p>	Accurate and complete receipts are generated for each successful booking	NA

17	Create, Edit, and Delete BTO Project Listings	<p>Manager creates project “Test project” in “Test neighborhood” with dates “20-08-2028” to “30-09-2029” with 3 officer slots</p> <p>Manager edits “Test project” to 4 officer slots</p> <p>Manager deletes “Test project”</p>	<p>Project created successfully and can be viewed</p> <p>Project edited successfully and can be viewed</p> <p>Project deleted successfully and can no longer be viewed</p>	NA
18	Single Project Management per Application Period	Manager managing project with dates from “15-06-2025” to 15-08-2025” tries to create project with dates “17-06-2025” to “18-07-2025”	Not allowed to create as manager cannot manage 2 projects in the same period	print(Project 'Greenville Park' has application period: 2025-06-15 to 2025-08-15 You can only have one project active within each application period.)
19	Toggle Project Visibility	Manager toggles a visible project to not visible	System updates visibility to false and applicants are unable to view that project when submitting application	NA

20	View All and Filtered Project Listings	<p>Manager views all projects</p> <p>Manager filters for projects in “Punggol” neighborhood</p> <p>Manager filters for projects with application period between “01-03-2025” to “01-05-2025”</p> <p>Manager filters for projects with toggle visibility on</p>	<p>Able to see all projects</p> <p>Able to see projects only under “Punggol” neighborhood</p> <p>Able to see projects with only application period within input range</p> <p>Able to see projects with only toggle visibility on</p>	NA
21	Manage HDB Officer Registrations	<p>Manager approves officer’s registration to handle “Greenville Park”</p> <p>Manager rejects officer’s registration to handle “Skyview Heights”</p>	<p>System updates officer’s registration to “APPROVED”</p> <p>System updates officer’s registration to “REJECTED”</p>	NA

22	Approve or Reject BTO Applications and Withdrawals	<p>Manager approves applicant's application to "Greenville Park"</p> <p>Manager rejects applicant's application to "Skyview Heights"</p> <p>Manager approves applicant's withdrawal from "Greenville Park"</p> <p>Manager does not approve applicant's withdrawal from "Skyview Heights"</p>	<p>System updates applicant's application as "SUCCESSFUL"</p> <p>System updates applicant's application as "UNSUCCESSFUL"</p> <p>System updates withdrawal of applicant from "Greenville Park" as "APPROVED"</p> <p>System updates withdrawal of applicant from " Skyview Heights" as "REJECTED"</p>	NA
23	Generate and Filter Reports	<p>Manager generates all reports</p> <p>Manager filters for married applicants' reports</p> <p>Manager filters for single applicants' reports</p> <p>Manager filters for "Lakeside Vista" applicants' reports</p>	<p>Shows all applicant reports and saves under a txt file</p> <p>Shows only married applicants' reports and saves under a txt file</p> <p>Shows only single applicants' reports and saves under a txt file</p> <p>Shows only "Lakeside Vista" applicants' reports and saves under a txt file</p>	NA