Test Case Table

| 1 | Valid User Login | Users should be able to access correct menus based on their roles. | User cannot log in or receives incorrect  error messages | Applicant log in    Officer log in    Manager log in |
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| 2 | Invalid NRIC Format | Login fails with “Invalid NRIC or password. Please try again” message and “Attempts remaining: “ message | User is allowed to log in with an invalid  NRIC |  |
| 3 | Incorrect Password | Login fails with “Invalid NRIC or password. Please try again” message and “Attempts remaining: “ message | User logs in  successfully with a wrong password |  |
| 4 | Too many attempts | Login fails with “Too many failed attempts” message and exit application | Infinite tries of login |  |
| 4 | Password change function | System updates password, subsequent login requires updated password | System does not  update the password or denies access with the new password | Updating password    Logging in with updated password |
| 5 | Project visibility based on their user group criteria | Can only view the list of projects that are open to their user group (Single or Married) and if their visibility has been toggled “on”.  Can also only view projects that are open for applications, within application period | Users see projects not relevant to their group or when visibility is off | Projects view of Applicant (Single,35)    Projects view of Applicant (Single,25) |
| 6 | Applicant applying for project | User can only apply for projects relevant to their group. Application goes through with confirmation message “Successfully applied for “ | Users can apply for projects not relevant to their group or when visibility is off | Applicant (Married,40) applying for project    Viewing applied project of applicant |
| 7 | Viewing Application Status after Visibility Toggle Off | Applicants continue to have access to their application details  regardless of project visibility. | Application details become inaccessible once visibility is off. | Manager toggling visibility off    Still able to see application details |
| 8 | Single Flat Booking per Successful Application | System allows  booking one flat and restricts further booking and printing of error message “Cannot apply for a second project” | Applicant is able to book more than one flat | Applicant (Married, 40) trying to apply for second project |
| 9 | Applicant’s enquiries management | Enquiries can be  successfully  submitted, displayed, modified, and  removed. | Enquiries cannot be submitted, edited, or deleted; or do not  display correctly. | Applicant submitting enquiry    Applicant editing enquiry    Applicant deleting enquiry |
| 10 | HDB Officer Registration Eligibility | System allows  registration only under compliant conditions | System allows  registration while the officer is an applicant or registered for  another project in the same period | Officer registering for a project when all conditions are cleared    Officer registering for a project that they registered for already.    Officer registering for project that they applied for as an Applicant |
| 11 | HDB Officer Registration Status | Officers can view  pending or approved status updates on their profiles. | Status updates are not visible or incorrect | Status when approved    Status when pending |
| 12 | Project Detail Access for HDB Officer | Officers can always access full project  details, even when visibility is turned off. | Project details are  inaccessible when  visibility is toggled off | Details still accessible even after visibility is false |
| 13 | Restriction on Editing Project Details | Edit functionality is disabled or absent for HDB Officers. | Officers are able to make changes to  project details | Edit project details are absent in Officer menus. |
| 14 | Response to Project  Enquiries | Officers & Managers can access and  respond to enquiries efficiently. | Officers & Managers cannot see enquiries, or their responses are not recorded. | Officer:      After Replying |
| 15 | Flat Selection and  Booking Management | Officers retrieve the correct application, update flat availability accurately, and  correctly log booking details in the  applicant’s profile. | Incorrect retrieval or updates, or failure to reflect booking details accurately. | Num of 2-Room before: 5    Officer booking 2-Room flat for applicant    Num of 2-Room after: 4 |
| 16 | Receipt Generation for Flat Booking | Accurate and complete receipts are generated for each successful booking | Receipts are  incomplete,  inaccurate, or fail to generate |  |
| 17 | Create, Edit, and Delete BTO Project Listings | Managers should be able to add new  projects, modify  existing project  details, and remove projects from the system with their various confirmation messages. | Inability to create, edit, or delete projects or errors during these operations. | Manager creating project    Manager editing project    Manager deleting project |
| 18 | Single Project  Management per  Application Period | System prevents  assignment of more than one project to a manager within the same application  dates. | Manager is able to handle multiple  projects  simultaneously during the same period. | Manager trying to create and handle a project with the clashing application dates as another project. |
| 19 | Toggle Project Visibility | Changes in visibility should be reflected accurately in the  project list visible to applicants | Visibility settings do not update or do not affect the project  listing as expected |  |
| 20 | View All and Filtered Project Listings | Managers should see all projects and be able to apply filters to  narrow down to their own projects. | Inability to view all projects or incorrect filtering results | Manager viewing all projects    Manager viewing only own created projects |
| 21 | Manage HDB Officer Registrations | Managers handle  officer registrations effectively, with  system updates  reflecting changes  accurately. | Mismanagement of registrations or slot counts do not update properly. | Manager approving registration    Logging in as Emily, we can see status is approved |
| 22 | Approve or Reject BTO Applications and  Withdrawals | Approvals and  rejections are  processed correctly, with system updates to reflect the decision | Incorrect or failed  processing of  applications or  withdrawals | Approving applicants application    Rejecting applicant’s application |
| 23 | Generate and Filter  Reports | Accurate report  generation with  options to filter by various categories. | Reports are  inaccurate,  incomplete, or  filtering does not  work as expected. | Without filter    With filter of age (35-40) |