Appendix C: Test Table

No.	Test Case	Expected Behavior	Test Input	Actual Output	Verd ict	Remarks
1	Valid User Login		NRIC: T7654321A Password: password	Welcome to HDB Management App, Applicant	Pass	Accesses the Applicant portal.
			NRIC: S1234567M Password: password			Accesses the Manager portal.
			NRIC: S76543210 Password: password			Accesses the Officer portal.
	Invalid NRIC	notification	NRIC: T123456G Password: password	Error: not valid IC!		NRIC is too short.
		3 TD T C	NRIC: S12345678A Password: password	Error: not valid IC!		NRIC is too long.
			NRIC: A1234567B Password: password	Error: not valid IC!		NRIC does not begin with 'S' or 'T'.
-	Incorrect Password	,	NRIC: T7654321A Password: passwo	Error: wrong password!	Pass	Password is wrong (should either be "password" or whatever it has been changed to after changing password
	Change	password, prompt re login and allows login with new credentials	NRIC: T7654321A Password: password Select an option: 7 Current Password: password New Password: testpw Confirm Password: testpw Option: 0 NRIC: T7654321A Password: testpw	Password Changed Successfully. Welcome to HDB Management App, Applicant.	Pass	After changing the password, the user is only able to login using the new updated password. Old default password will not work anymore.
		based on their	NRIC: T7654321F Password: password Option: 1	No Projects Found.		Single, under 21
	Group and	age, marital status and the visibility setting	NRIC: T7654321C Password: password Option: 1	Projects: ID 4: 2 ROOM ONLY in D-street. Open from 2024-02-01 to 2024-03-02.	Pass	Single, 35 and above. Only can apply for 2-Room.
			NRIC: T7654321E Password: password Option: 2	ID 4: 2 ROOM ONLY in D-street. Open from 2024-02-01 to 2024-03-02. ID 5: 3 ROOM ONLY in D-street. Open from 2023-02-01 to 2023-03-02. ID 0: Amazing Apricots in A-hood. Open from 2025-03-02 to 2025-03-10. ID 1: Bubbling Brooks in B-ville. Open from 2025-03-11 to 2025-03-13. ID 2: Cowering Canvases in C-ity. Open from 2025-03-01 to 2025-03-01. ID 3: Dancing Dames in D-street. Open from 2025-02-01 to 2025-03-02.		Married, above 40 years old. Can apply for any flat types.
	n	apply for projects relevant to their group or when visibility is off	Option: 1 Desired Number of Rooms: 3	Error: inapplicable flattype!		Single 35 year old CANNOT apply for a 3 room flat.
	n Status after Visibility Toggle Off	have access to their application details regardless of	NRIC: S1234567M Password: password Option: 4, ID: 0 Option: 4 <logout> NRIC: T7654321B Password: password Option: 5</logout>	ID 6: B applying for Amazing Apricots, currently SUCCESSFUL and NOT withdrawing.	Pass	Manager toggles visibility of Amazing Apricots project to off. Applicant is still able to view application details after visibility is toggled off.
		booking one flat and restricts	NRIC: S76543210 Password: password Option: 3, ID: 0 Option: 4, Option: 1	Error: application not successful!	Pass	Officer is unable to book a second flat for the applicant, only 1 booking.

Applicatio n	bookings	Select an application by ID: 6, Option: 4, Option: 1 Select an application			
s enquiries manageme nt	be successfully submitted, displayed, modified, and removed.	by ID: 6 NRIC: T7654321B Password: password Option: 1, ID: 1 Option: 2 Type your enquiry: How much? Option: 3 ID: 2 Edit your enquiry: How much!!! Option: 2 ID: 2 ID: 2	<after creating="" enquiry=""> ENQUIRIES ID 2: B: How much? <after editing="" enquiry=""> Enquiry edited. Enquiries: ID 2: B: How much!!! <after deleting="" enquiry=""> Enquiry deleted.</after></after></after>	Pass	Applicant is able to create, edit, and delete his enquiry.
Officer Registratio n	registration only under compliant conditions	NRIC: S76543290 Password: password Option: 6 Option: 7 ID: 2 NRIC: S76543210 Password: password Option: 6 Option: 7 ID: 3	No Applications Found. Applying for: ID 2: Cowering Canvases in C-ity. Open from 2025-03-01 to 2025-03-01. ID 2: O2 applying for Cowering Canvases, currently PENDING and NOT withdrawing. ID 5: O applying for Dancing Dames, currently PENDING and NOT withdrawing. Error: has applied for project!		Officer is able to register for a Project if he does not have any pending applications. Officer is unable to register for a Project if he is an applicant for another project.
Officer Registratio n Status	Officers can view pending or approved status updates on their profiles.	NRIC: S76543210 Password: password Option: 1 ID: 0 Option: 6 NRIC: S1234567M Password: password Option: 2 ID: 0 Option: 5 Option: 1 Select an application by ID: 2 Option: 1 NRIC: S76543210 Password: password Option: 1 ID: 0 Option: 6	Applications: ID 2: C applying for Amazing Apricots, currently PENDING and NOT withdrawing. After Manager approves applicant ID 2: C applying for Amazing Apricots, currently SUCCESSFUL and NOT withdrawing.	Pass	After the Manager makes an update to an applicant's application, the Officer of that project is able to view pending or approved status on their profiles.
Detail Access for HDB Officer	full project details, even when visibility is turned off.	Option: 6 NRIC: S1234567M Password: password Option: 2 ID: 0 Option: 4 NRIC: S7654321O Password: password Option: 1 ID: 0	Visibility set to no> PROJECT DETAILS Project ID 0: Name: Amazing Apricots Neighbourhood: A-hood 2 Room Units Available: 1 3 Room Units Available: 3 Application Period: 2025-03-02 to 2025-03-10 Visible: no STAFF DETAILS Manager: M Officers: O ENQUIRIES ID 0: A: Hello hello ID 1: A: HiHi O: Hello?	Pass	Officer of the project is still able to view project details even when visibility is set to 'no'.
Project Details	functionality is disabled or absent for HDB Officers.	Option: 1 NRIC: S76543210 Password: password Option: 1 ID: 0			HDB Officers are unable to access the edit functionality for Projects.
to Project	Officers & Managers can access and	NRIC: T7654321A Password: password Option: 1	Applicant makes an enquiry> ENQUIRIES ID 2: A: How much?!	Pass	Managers are able to access and respond to enquiries made. Officers

	respond to enquiries efficiently.	ID: 1 Option: 2 Type your enquiry: How much?! NRIC: \$1234567M Password: password Option: 2 ID: 1 Option: 7 Select an enquiry by ID: 2 Type your enquiry: 1 dollar	<manager enquiry="" officer="" or="" replies="" to=""> ENQUIRIES ID 2: A: How much?! M: 1 dollar</manager>	are also able to access and respond to enquiries made.
Selection and Booking Manageme nt	retrieve the correct application, update flat availability accurately, and	NRIC: \$76543210 Password: password Option: 3 ID: 0 Option: 6 Option: 1 Select an application by ID: 6 Option: 7	PROJECT DETAILS Project ID 0: Name: Amazing Apricots Neighbourhood: A-hood 2 Room Units Available: 1 3 Room Units Available: 3 Application Period: 2025-03-02 to 2025-03-10 Visible: yes ID 6: B applying for Amazing Apricots, currently SUCCESSFUL and NOT withdrawing. Application booked. 2 Room Units Available: 0 APPLICATION ID 6 Name: B NRIC: T7654321B Age: 21 Marital Status: MARRIED Flat Type: TWO_ROOM Project: ID 0: Amazing Apricots in A-hood. Open from 2025-03-02 to 2025-03-10. Status: BOOKED Withdrawing: NOT	After the Officer books a flat for a successful applicant, the remaining number of flats with the same room type is updated. Officer can retrieve the applicant's BTO application with applicant's NRIC, update applicant's project status, from "successful" to "Booked", and update applicant's profile with the type of flat (2-Room or 3 Room) chosen under a project.
Generation for Flat Booking	Accurate and complete receipts are generated for each successful booking	Option: 1	Application booked. Receipt Generation> APPLICATION RECEIPT APPLICATION ID 6 Name: B NRIC: T7654321B Age: 21 Marital Status: MARRIED Flat Type: TWO_ROOM Project: ID 0: Amazing Apricots in A-hood. Open from 2025-03-02 to 2025-03-10. Status: BOOKED Withdrawing: NOT PROJECT DETAILS Project ID 0: Name: Amazing Apricots Neighbourhood: A-hood 2 Room Units Available: 0 3 Room Units Available: 3 Application Period: 2025-03-02 to 2025-03-10 Visible: yes STAFF DETAILS Manager: M Officers: O ENQUIRIES ID 0: A: Hello hello IID 1: A: HiHi III O: Hello?	After booking the flat for a successful applicant, the program is able to generate accurate receipts for each applicant. Receipts of other applicants have been omitted in this report due to page limit.
Edit, and Delete BTO Project	Managers should be able to add new projects, modify existing project details,	NRIC: S1234567M Password: password Option: 2 ID: 0 Option: 1	 <editing existing="" project=""></editing> PROJECT DETAILS Project ID 0: Name: BeepBoop Residence Neighbourhood: Serangoon 2 Room Units Available: 2	Managers are able to edit and delete existing projects, as well as create new project listings.

_		<u> </u>	1			
		and remove	Enter name:	3 Room Units Available: 4		
			BeepBoop Residence	Application Period: 2025-03-02 to 2025-03-10		
		the system	Enter neighbourhood:	Visible: yes		
			Serangoon Enter number of	<adding new="" project=""></adding>		
			2-room units: 2	Project created with ID 6.		
			Enter number of	1 Toject created with 115 o.		
			3-room units: 4	PROJECT DETAILS		
			Enter a date	Project ID 6:		
			(yyyy-mm-dd):	Name: Cardiff Town		
			2025-03-02	Neighbourhood: Clementi		
			Enter a date	2 Room Units Available: 3		
			(yyyy-mm-dd):	3 Room Units Available: 3		
			2025-03-10	Application Period: 2025-04-04 to 2025-04-11		
			Enter number of	Visible: yes		
			officer slot: 3 Option: 1	<pre><deleting project="" the=""></deleting></pre>		
			Enter the New	Project Deleted.		
			Project's Details.	1 Toject Beleted.		
			Enter name: Cardiff			
			Town			
			Enter neighbourhood:			
			Clementi			
			Enter number of			
			2-room units: 3 Enter number of			
			3-room units: 3			
			Enter a date			
			(yyyy-mm-dd):			
			2025-04-04			
			Enter a date			
			(yyyy-mm-dd):			
			2025-04-11			
			Enter number of			
			officer slot: 3 Option: 2			
			Confirm Delete? Type			
			1 to accept: 1			
18	Single	System	NRIC: S1234567M	PROJECT DETAILS	Pass	System is unable to assign
	Project	-	Password: password	Project ID 0:		projects within the same
			Option: 5	Name: Amazing Apricots		application dates to the
	nt per		ID: 0	Neighbourhood: A-hood		same manager.
		project to a	<enter></enter>	2 Room Units Available: 1 3 Room Units Available: 3		
	ii renou	manager within the same	ID: 1	Application Period: 2025-03-02 to 2025-03-10		
			Option: 1	Visible: yes		
		dates.	Enter a date	STAFF DETAILS		
			(yyyy-mm-dd):	Manager: M		
			2025-03-02	Error: overlapping dates!		
			Enter a date			
			(yyyy-mm-dd):			
10	To g = 1 -	Changes	2025-03-10 NDIC: T7654221D	Winibility On	Dan	A from the Manager to 1
19	Toggle Project		NRIC: T7654321B Password: password	<visibility on=""> Projects:</visibility>	Pass	After the Manager toggles visibility off, those
			Option: 1	ID 4: 2 ROOM ONLY in D-street. Open from 2024-02-01		Projects with visibility
	15101111		NRIC: S1234567M	to 2024-03-02.		turned off will not show
			Password: password	ID 5: 3 ROOM ONLY in D-street. Open from 2023-02-01		up in Applicant's list
			Option: 2	to 2023-03-02.		when he lists all Projects.
		applicants	ID: 0	ID 0: Amazing Apricots in A-hood. Open from 2025-03-02		
			Option: 4	to 2025-03-10.		
			Option: 2 ID: 1	ID 1: Bubbling Brooks in B-ville. Open from 2025-03-11 to 2025-03-13.		
			Option: 4	ID 2: Cowering Canvases in C-ity. Open from 2025-03-01		
			NRIC: T7654321B	to 2025-03-01.		
			Password: password	ID 3: Dancing Dames in D-street. Open from 2025-02-01 to		
			Option: 1	2025-03-02.		
				<after off="" turning="" visibility=""></after>		
				Projects: ID 4: 2 ROOM ONLY in D-street. Open from 2024-02-01		
				to 2024-03-02.		
				ID 5: 3 ROOM ONLY in D-street. Open from 2023-02-01		
1	1	I	Ī		İ	1
				to 2023-03-02.		l
				to 2023-03-02. ID 2: Cowering Canvases in C-ity. Open from 2025-03-01 to 2025-03-01.		

				ID 3: Dancing Dames in D-street. Open from 2025-02-01 to 2025-03-02.		
20	and Filtered Project Listings	Managers should see all projects and be able to apply filters to narrow down to their own projects.	NRIC: S1234567M Password: password Option: 2 Option: 3 Option: 3 Type your query: A-hood <enter> Option: 2</enter>	Sefore Filtering>Projects: ID 4: 2 ROOM ONLY in D-street. Open from 2024-02-01 to 2024-03-02. ID 5: 3 ROOM ONLY in D-street. Open from 2023-02-01 to 2023-03-02. ID 0: Amazing Apricots in A-hood. Open from 2025-03-02 to 2025-03-10. ID 1: Bubbling Brooks in B-ville. Open from 2025-03-11 to 2025-03-13. ID 2: Cowering Canvases in C-ity. Open from 2025-03-01 to 2025-03-01. ID 3: Dancing Dames in D-street. Open from 2025-02-01 to 2025-03-02. After Filtering> Projects: ID 0: Amazing Apricots in A-hood. Open from 2025-03-02 to 2025-03-10.	Pass	Managers are able to view all their projects before filtering and view those select projects after filtering.
21	HDB Officer Registratio ns	Managers handle officer registrations effectively, with system updates reflecting changes accurately.	NRIC: S76543290 Password: password Option: 7 ID: 3 NRIC: S1234569M Password: password Option: 2 ID: 3 Option: 6 Option: 1 Select an application by ID: 2 Option: 1	OFFICER APPLICATIONS Remaining Officer Slots: 1 ID 2: O2 applying for Dancing Dames, currently PENDING and NOT withdrawing. Completed. OFFICER APPLICATIONS Remaining Officer Slots: 0 ID 2: O2 applying for Dancing Dames, currently SUCCESSFUL and NOT withdrawing.	Pass	After an officer registers for a Project as an Officer, the Manager of said project is able to register the Officer under the Project.
22	Reject BTO Applicatio ns and	Approvals and rejections are processed correctly, with system updates to reflect the decision	NRIC: S1234567M Password: password Option: 4 ID: 0 Option: 5 Option: 1 Select an application by ID: 2 Option: 1	<before approving=""> ID 2: C applying for Amazing Apricots, currently PENDING and NOT withdrawing. <after approving=""> Completed. ID 2: C applying for Amazing Apricots, currently SUCCESSFUL and NOT withdrawing.</after></before>	Pass	Managers are able to successfully approve and reject BTO applications and withdrawals.
23	and Filter Reports	generation with options to filter	NRIC: S1234567M Password: password	Current Filters: None. Current Filters: Marital Status: SINGLE Applications: APPLICATION ID 0 Name: A NRIC: T7654321A Age: 35 Marital Status: SINGLE Flat Type: TWO_ROOM Project: ID 0: Amazing Apricots in A-hood. Open from 2025-03-02 to 2025-03-10. Status: WITHDRAWN Withdrawing: SUCCESSFUL APPLICATION ID 2 Name: C NRIC: T7654321C Age: 35 Marital Status: SINGLE Flat Type: TWO_ROOM Project: ID 0: Amazing Apricots in A-hood. Open from 2025-03-02 to 2025-03-10. Status: PENDING Withdrawing: NOT	Pass	Managers are able to apply filters such as Applicant's Age, Marital Status, Flat Types, etc. After applying filters, only those select filtered projects will appear when listing all projects.