

Software Engineer Technical Test

Candidates are to choose either **Web** or **Mobile**. For submission, candidates are required to upload all the source code into GitHub/GitLab and share the repository link with khairul@lionsbot.com and ianghong@lionsbot.com. Candidates are required to ensure that the repository must be set to private access. For questions and clarifications you can contact the email addresses above.

Web

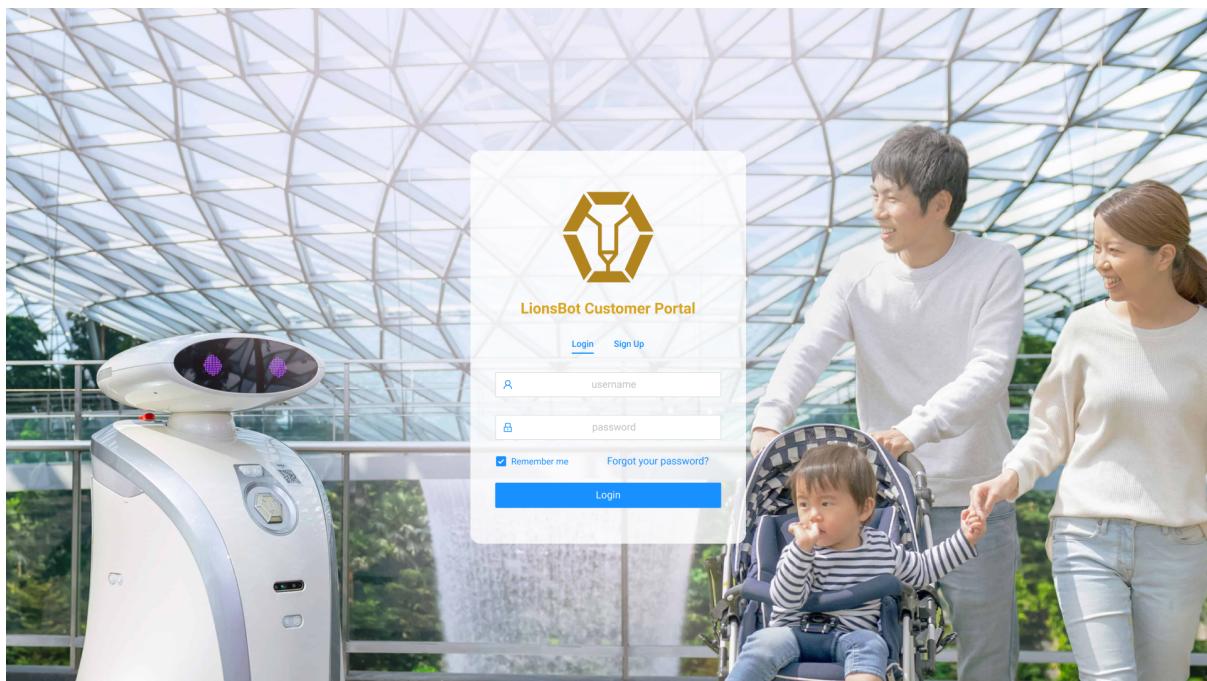
To create a functional web application for users to:

- Login
- View users
- Add users
- Reset their own password

It is recommended to use ReactJS and to set up your own local NodeJS mock server to return queries/APIs for data (e.g. List of users). Refer to the screens below for the deliverables.

Login Screen

Upon incorrect username or password, the page should display an unsuccessful response. Upon correct username and password, the page will redirect to the 'View Users' page.

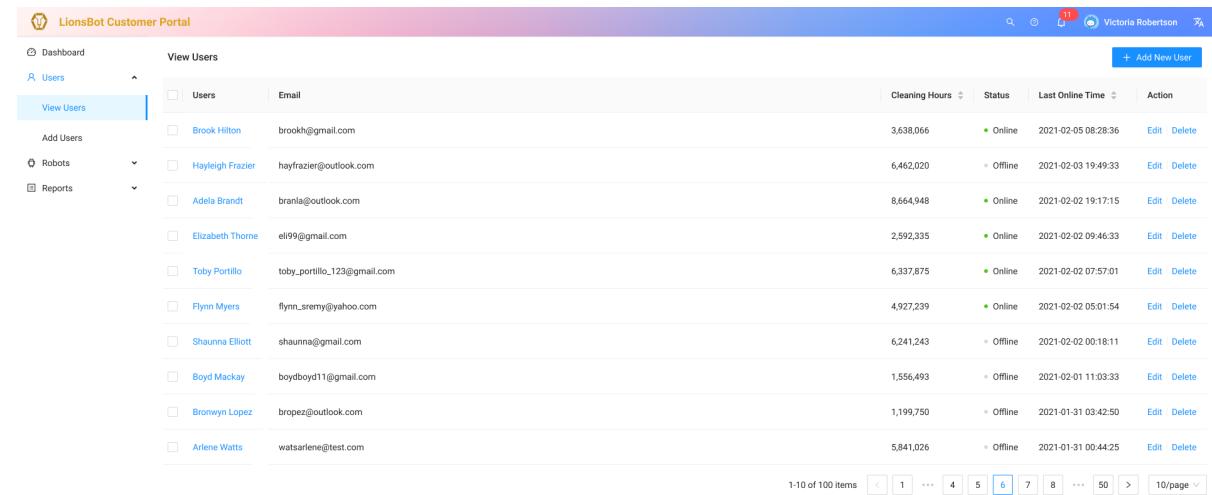


View Users

In this page, retrieve the data from the local mockup server and display in table format below.

Upon delete button, users should be deleted from the list

Upon clicking of 'Add New User' button, redirect to 'Add Users' page.

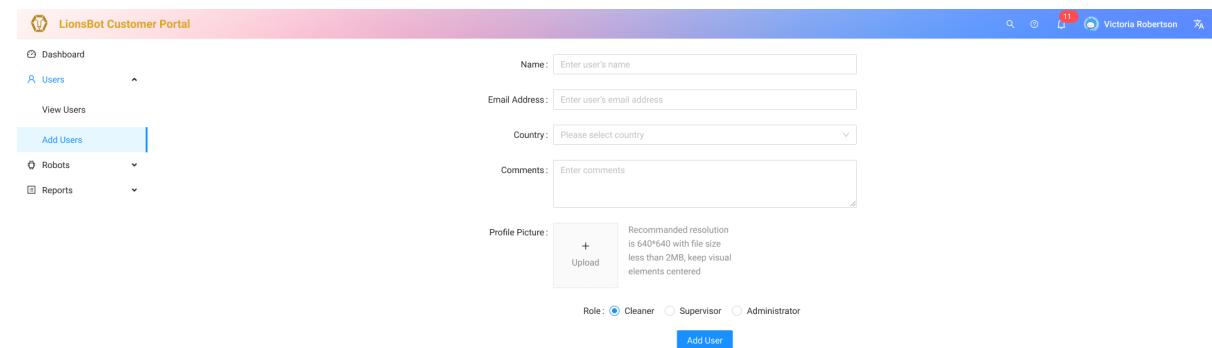


	Users	Email	Cleaning Hours	Status	Last Online Time	Action
	Brook Hilton	brookh@gmail.com	3,638,066	Online	2021-02-05 08:28:36	Edit Delete
	Hayleigh Frazier	hayfrazier@outlook.com	6,462,020	Offline	2021-02-03 19:49:33	Edit Delete
	Adela Brandt	branla@outlook.com	8,664,948	Online	2021-02-02 19:17:15	Edit Delete
	Elizabeth Thorne	eli99@gmail.com	2,592,335	Online	2021-02-02 09:46:33	Edit Delete
	Toby Portillo	toby_portillo_123@gmail.com	6,337,875	Online	2021-02-02 07:57:01	Edit Delete
	Flynn Myers	flynn_sremy@yahoo.com	4,927,239	Online	2021-02-02 05:01:54	Edit Delete
	Shaunna Elliott	shaunna@gmail.com	6,241,243	Offline	2021-02-02 00:18:11	Edit Delete
	Boyd Mackay	boydboyd11@gmail.com	1,556,493	Offline	2021-02-01 11:03:33	Edit Delete
	Bronwyn Lopez	bropez@outlook.com	1,199,750	Offline	2021-01-31 03:42:50	Edit Delete
	Arlene Watts	watsarlene@test.com	5,841,026	Offline	2021-01-31 00:44:25	Edit Delete

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Add Users

Input is compulsory for all text fields below. Allow users to upload the profile picture. Upon 'Add User' the user data will be appended to the Users list.



Name:

Email Address:

Country:

Comments:

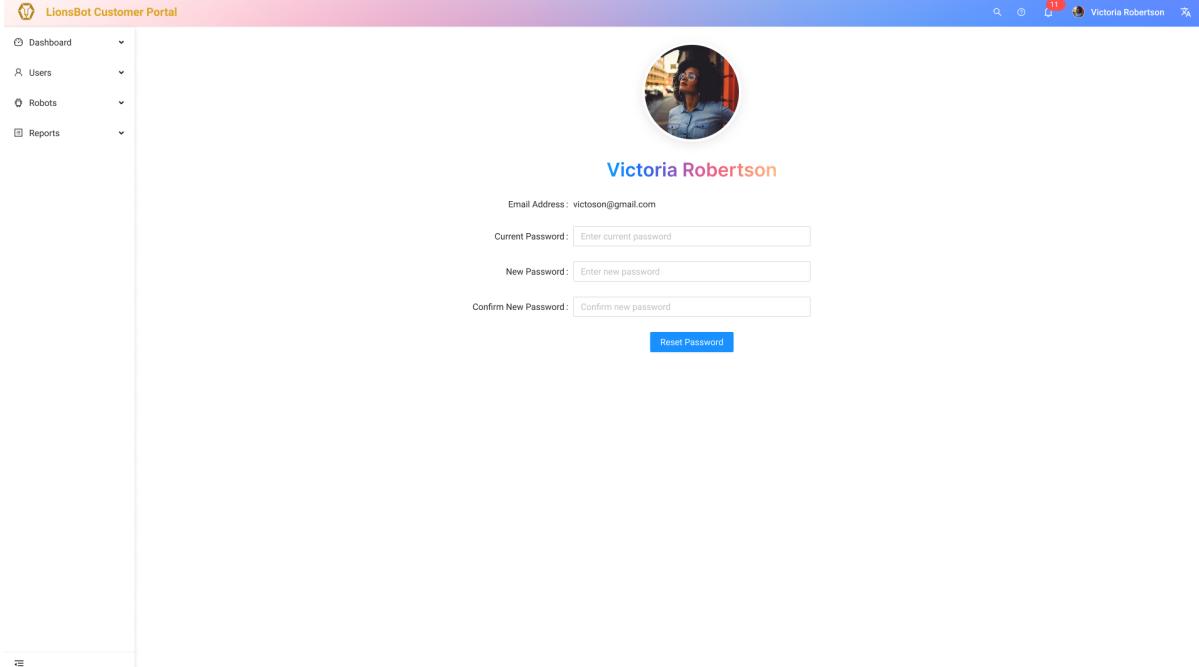
Profile Picture:
 + Upload Recommended resolution is 640x40 with file size less than 2MB, keep visual elements centered

Role: Cleaner Supervisor Administrator

[Add User](#)

Reset Password

Allow users to reset their password. Login with the new resetted password must be successful.



The screenshot shows the LionsBot Customer Portal interface. At the top, there's a navigation bar with icons for search, notifications (11), user profile (Victoria Robertson), and a sign-out button. On the left, a sidebar menu includes 'Dashboard' (selected), 'Users', 'Robots', and 'Reports'. The main content area displays a circular profile picture of a person and the name 'Victoria Robertson'. Below this, there are three input fields: 'Email Address' (victorson@gmail.com), 'Current Password' (placeholder: Enter current password), 'New Password' (placeholder: Enter new password), and 'Confirm New Password' (placeholder: Confirm new password). A blue 'Reset Password' button is at the bottom right of the form.

END OF WEB TECHNICAL TEST

Mobile

To create a functional mobile application for users to:

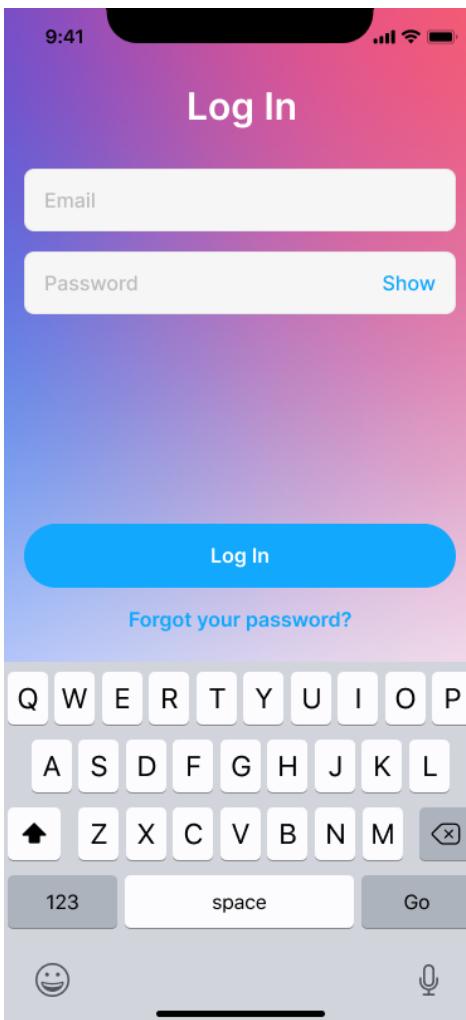
- Login
- Remote Control robot
- Toggle settings

It is recommended to use either **React Native** or **Flutter** for this task.

Login

Upon incorrect username or password, screen should display a unsuccessful login

Upon correct username and password, the page will redirect to the 'Profile' screen.

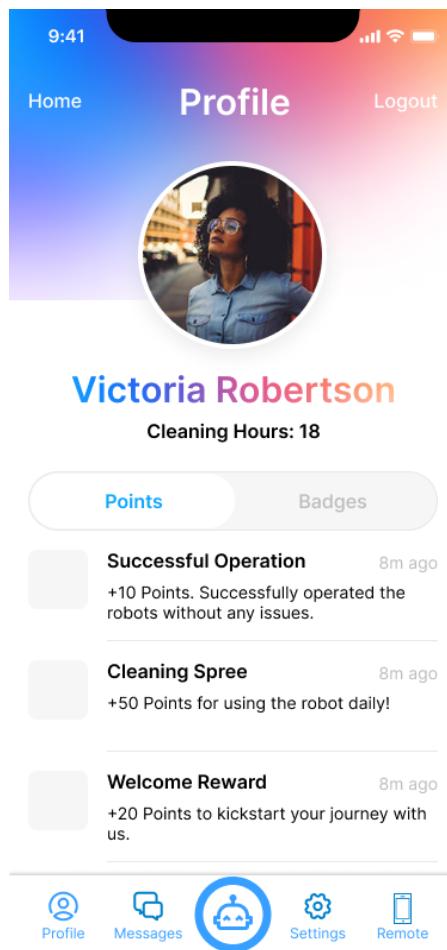


Profile

Screen should display the user's profile picture, cleaning hours and the history of points and badges.

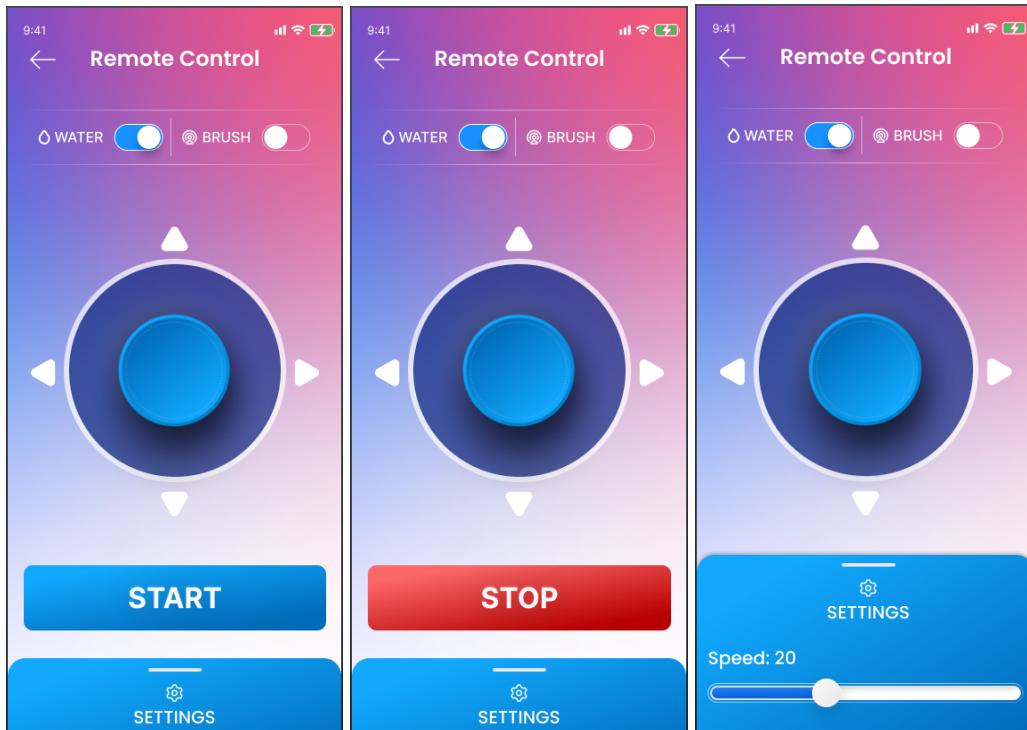
The selection for Points and Badges can be toggled.

Selecting 'Remote' in the navigation bar below will redirect the user to the 'Remote Control' screen.



Remote Control

- ‘Water’ and ‘Brush’ are toggle buttons
- Joystick in the screens below must be movable.
- Upon clicking ‘START’, state changes to ‘STOP’
- ‘Settings’ bottom drawer can be dragged up to control Speed slider
- Clicking the back button will redirect the user to the ‘Profile’ page



END FOR MOBILE APP TECHNICAL TEST

Background Asset

