

# Project Development Phase

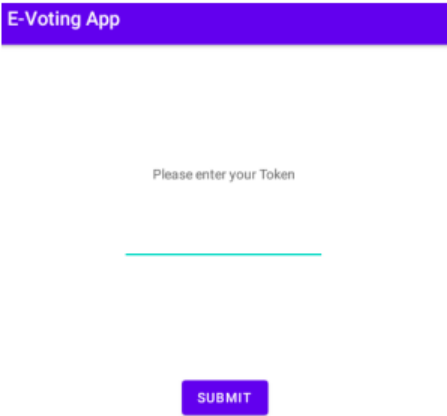
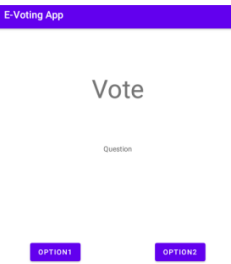
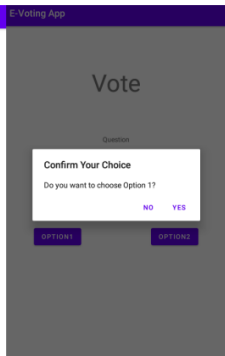
## Model Performance Test

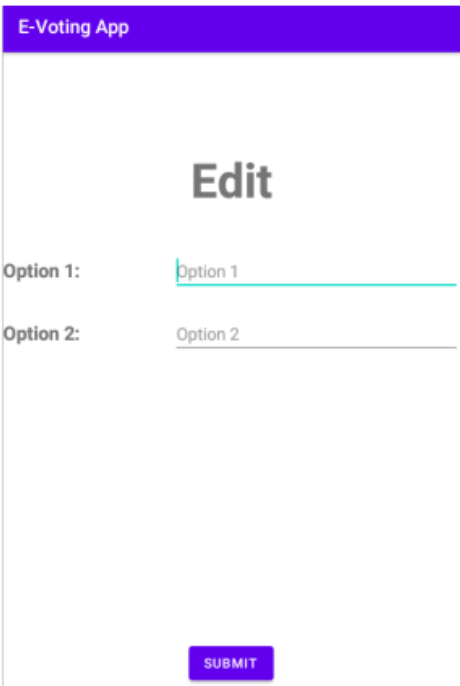
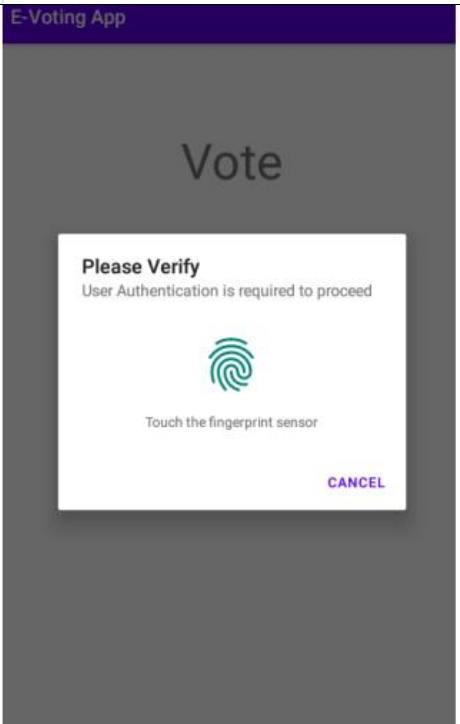
Team ID	NM2023TMID04400
Project Name	Project – Biometric security system for voting platform


### Model Performance Testing:

Project team shall fill the following information when working for blockchain.

S.No.	Parametes	Values	Screen Shot																																																																																																		
1.	i)Login  ii)Login Decision Table	<div>i)<ul style="list-style-type: none"><li>This is login page; the user needs to enter their IC number and password to login.</li><li>If the vote is haven't start and open to vote, the system will forward the user to check eligible status page.</li><li>When vote is open, the system will forward to Login Token page.</li><li>Besides, if the user already makes their vote before, the system will show “you already voted before”</li></ul></div> <div>ii)<ul style="list-style-type: none"><li>The table below is showing the action of the system will perform when user</li></ul></div>	<div>E-Voting App</div> <div><div>E-Voting System</div><div>Login</div><div>IC Number (Without -)</div><div>Password</div><div>LOGIN</div><div>Register Here</div><div>The table below is showing the action of the system will perform when user achieved the condition. The user must not have any of the conditions below to complete the Login.</div><table><tr><th>Condition/Rules</th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>Admin Login</td><td>T</td><td>F</td><td>F</td><td>F</td><td>F</td><td>F</td></tr><tr><td>Account not found</td><td>-</td><td>T</td><td>F</td><td>F</td><td>F</td><td>F</td></tr><tr><td>Password incorrect</td><td>-</td><td>-</td><td>T</td><td>F</td><td>F</td><td>F</td></tr><tr><td>Vote no open</td><td>-</td><td>-</td><td>-</td><td>T</td><td>F</td><td>F</td></tr><tr><td>User not eligible</td><td>-</td><td>-</td><td>-</td><td>-</td><td>T</td><td>F</td></tr><tr><td>User vote before</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>T</td></tr><tr><td>Actions</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Go Admin page</td><td>Y</td><td>N</td><td>N</td><td>N</td><td>N</td><td>N</td></tr><tr><td>Ask user to register</td><td>N</td><td>Y</td><td>N</td><td>N</td><td>N</td><td>N</td></tr><tr><td>Ask user to enter correct password</td><td>N</td><td>N</td><td>Y</td><td>N</td><td>N</td><td>N</td></tr><tr><td>Go check voter eligible status page</td><td>N</td><td>N</td><td>N</td><td>Y</td><td>N</td><td>N</td></tr><tr><td>Tell user not eligible to vote</td><td>N</td><td>N</td><td>N</td><td>N</td><td>Y</td><td>N</td></tr><tr><td>Tell user had vote before.</td><td>N</td><td>N</td><td>N</td><td>N</td><td>N</td><td>Y</td></tr></table></div>	Condition/Rules							Admin Login	T	F	F	F	F	F	Account not found	-	T	F	F	F	F	Password incorrect	-	-	T	F	F	F	Vote no open	-	-	-	T	F	F	User not eligible	-	-	-	-	T	F	User vote before	-	-	-	-	-	T	Actions							Go Admin page	Y	N	N	N	N	N	Ask user to register	N	Y	N	N	N	N	Ask user to enter correct password	N	N	Y	N	N	N	Go check voter eligible status page	N	N	N	Y	N	N	Tell user not eligible to vote	N	N	N	N	Y	N	Tell user had vote before.	N	N	N	N	N	Y
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		<p>achieved the condition.</p> <ul style="list-style-type: none"> <li>The user must not have any of the conditions below to complete the Login.</li> </ul>	
2.	Login Token	<ul style="list-style-type: none"> <li>The user needs to enter the Token that given during register.</li> <li>The user only can login successful and process to vote when the Token is correct.</li> </ul>	
3.	i)Vote ii>Edit Vote Option	i) <ul style="list-style-type: none"> <li>This is the vote page after user login successfully.</li> <li>In this page, the user able to see the question of vote and the option of vote.</li> <li>After that, user able to choose one option to vote.</li> <li>The system will make a confirmation with user.</li> </ul>	<div>  <p>1. Vote page</p> </div> <div>  <p>2. Confirmation</p> </div>

		<p>ii)</p> <ul style="list-style-type: none"> <li>The admin can enter the title or name of the option to rename them.</li> <li>The system will update to the database after admin submit this edit form.</li> </ul>	
4.	<p>i)Fingerprint Verification</p> <p>ii)Verify Voter</p>	<p>i)</p> <ul style="list-style-type: none"> <li>After user confirm want to vote the option, the system will ask for user fingerprint.</li> <li>After the fingerprint verification is successful, the system will record down the vote and the voting process is end.</li> <li>The system will back to the login screen.</li> </ul>	

		<p>ii)</p> <ul style="list-style-type: none"> <li>When admin click the button “Verify Voter” in Admin Menu page, the application will redirect admin to this page.</li> <li>In this page, the admin can see a list for registered but unverified voter.</li> <li>The list is show and sort by IC number.</li> </ul>	 <p><b>E-Voting App</b></p> <p><b>Name:</b> Foo Hong Zee</p> <p><b>IC:</b> [REDACTED]</p> <p><b>Email:</b> hongfoo1204@gmail.com</p> <p><b>Phone:</b> +6019731[REDACTED]</p> <p><b>Verified:</b> false</p> <p>Below the details, there are two images of voter ID cards and a green checkmark icon next to a voter profile card. At the bottom, there is a purple button labeled 'VERIFY'.</p>																																												
5.	Black-Box Testing	<ul style="list-style-type: none"> <li>Black-box testing is one of the techniques for software testing.</li> <li>Black-box testing is testing the functionality of the software without knowing the internal coding.</li> </ul>	<table border="1"> <thead> <tr> <th>Functionality</th><th>Input</th><th>Actual Result</th><th>Expect Result</th></tr> </thead> <tbody> <tr> <td>Fingerprint Verification</td><td>Fingerprint 1</td><td>Success</td><td>Success</td></tr> <tr> <td>Fingerprint Verification</td><td>Fingerprint 2</td><td>Failed</td><td>Failed</td></tr> <tr> <td>Edit Vote Option</td><td>"Party 1" for option 1</td><td>Voter vote option 1 button become "Party 1" button</td><td>Voter vote option 1 button become "Party 1" button</td></tr> <tr> <td>Edit Vote Option</td><td>"Party 2" for option 2</td><td>Voter vote option 2 button become "Party 2" button</td><td>Voter vote option 2 button become "Party 2" button</td></tr> <tr> <td>Vote Status</td><td>"OPEN" Button</td><td>Vote Open</td><td>Vote Open</td></tr> <tr> <td>Vote Status</td><td>"CLOSE" Button</td><td>Vote Close</td><td>Vote Close</td></tr> <tr> <td>Verify Voter</td><td>"VERIFY" Button</td><td>Voter Verified = true</td><td>Voter Verified = true</td></tr> <tr> <td>Realtime Result</td><td>Voter vote option 1</td><td>Total vote +1, Option 1 +1</td><td>Total vote +1, Option 1 +1</td></tr> <tr> <td>Realtime Result</td><td>Voter vote option 2</td><td>Total vote +1, Option 2 +1</td><td>Total vote +1, Option 2 +1</td></tr> <tr> <td>Statistic Report</td><td>-</td><td>Amount on pie chart is same with Realtime result, Percentage is correct</td><td>Amount on pie chart is same with Realtime result, Percentage is correct</td></tr> </tbody> </table>	Functionality	Input	Actual Result	Expect Result	Fingerprint Verification	Fingerprint 1	Success	Success	Fingerprint Verification	Fingerprint 2	Failed	Failed	Edit Vote Option	"Party 1" for option 1	Voter vote option 1 button become "Party 1" button	Voter vote option 1 button become "Party 1" button	Edit Vote Option	"Party 2" for option 2	Voter vote option 2 button become "Party 2" button	Voter vote option 2 button become "Party 2" button	Vote Status	"OPEN" Button	Vote Open	Vote Open	Vote Status	"CLOSE" Button	Vote Close	Vote Close	Verify Voter	"VERIFY" Button	Voter Verified = true	Voter Verified = true	Realtime Result	Voter vote option 1	Total vote +1, Option 1 +1	Total vote +1, Option 1 +1	Realtime Result	Voter vote option 2	Total vote +1, Option 2 +1	Total vote +1, Option 2 +1	Statistic Report	-	Amount on pie chart is same with Realtime result, Percentage is correct	Amount on pie chart is same with Realtime result, Percentage is correct
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