**Chapter 6**

**Testing**

* **Functional Testing Test cases :-**
* **Test cases of Admin side:-**

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| **Serial No.** | **Description** | **Test data** | **Expected data** | **Actual data** |
| 1 | Admin login, Verify if a user will be able to login with valid username and valid password. | Username:-  admin  Password:-  \*\*\*\*\*\*\*\*\* | Login successful & Home page displayed with Success toast message,  Welcome to admin panel | Login successful & Home page displayed with Success toast message,  Welcome to admin panel |
| 2 | Admin login,  Verify the login page for both when the field is blank and Login button is clicked. | Username :-  **BLANK**  Password:-  **BLANK** | Error Toast message display, Please enter your username and password | Error Toast message display, Please enter your username and password |
| 3 | Admin login,  Verify the message for invalid username. | Username:-  imAdmin  Password:-  \*\*\*\*\*\* | Error Toast message display, Invalid username | Error Toast message display, Invalid username |
| 4 | Admin login,  Verify the message for invalid password. | Username:-  admin  Password:-  admin | Error Toast message display, Invalid password | Error Toast message display, Invalid password |
| 5 | Admin forget password,  If admin click on the forget password, and admin enters valid email. | Email:  admin@gmail.com | Showing spinner with message ‘sending email to <username>’ and Success Toast with message ‘OTP send to <particular username’s email>’ | Showing spinner with message ‘sending email to <username>’ and Success Toast with message ‘OTP send to <particular username’s email>’ |
| 6 | Admin forget password,  If admin enter correct OTP | Click on Verify Button | Open up reset password modal | Open up reset password modal |
| 7 | Admin forget password,  If admin enter incorrect OTP | Click on Verify Button | Error Toast with message , Invalid OTP | Error Toast with message , Invalid OTP |
| 8 | Admin reset password,  If Admin enter same password and confirm password | Password:  dfghcvbnm@44  Confirm Password:  dfghcvbnm@44 | Closes the reset password modal and Success Toast with message ‘Password Updated Successfully’ | Closes the reset password modal and Success Toast with message ‘Password Updated Successfully’ |
| 9 | Admin reset password,  If Admin enter different password and confirm password | Password:  dfghcvbnm@4  Confirm Password:  dfghcvbnm@44 | Error Toast with message ‘Confirm password doesn’t match password | Error Toast with message ‘Confirm password doesn’t match password |
| 10 | Admin verify OTP page.  Click on already account page | Clicking on  **Already have an account hyperlink?** | User is redirected to the login form | User is redirected to the login form |
| 11 | Admin login, enters correct username and password | Click on sign in button with correct credentials | Shows verifying loading animation redirect to home screen with success message. | Shows verifying loading animation redirect to home screen with success message. |
| 12 | Admin home page, click on profile button in navbar | Click on button with profile icon | Redirected to profile page | Redirected to profile page |
| 13 | Admin profile page, admin click on edit profile page | Click on edit profile page | A pop up modal shows up with field included name, username, email, mobile number and date of birth | A pop up modal shows up with field included name, username, email, mobile number and date of birth |
| 14 | Admin Profile page, admin click on update profile without modifying any fields | Click on update profile page | Success toast is shows up with message ,Profile updated successfully | Success toast is shows up with message ,Profile updated successfully |
| 15 | Admin profile page, if admin click on update profile page with name field empty | Click on update profile page with empty name field | Error toast come with message,  Please enter all the required fields | Error toast come with message,  Please enter all the required fields |
| 16 | Admin profile page, if admin click on update profile page with username field empty | Click on update profile page with empty username field | Error toast come with message,  Please enter all the required fields | Error toast come with message,  Please enter all the required fields |
| 17 | Admin profile page, if admin click on update profile page with email field empty | Click on update profile page with empty email field | Error toast come with message,  Please enter all the required fields | Error toast come with message,  Please enter all the required fields |
| 18 | Admin profile page, if admin click on update profile page with email with invalid format | Click on update profile page with invalid email format | Field shows that enter the valid email address. | Field shows that enter the valid email address. |
| 19 | Admin profile page, if admin click on update date | Click on update profile with new date | Update the profile with new credentials | Update the profile with new credentials |
| 20 | Admin profile page, if admin changes username and click on update profile | Username:  admin\_new | Success toast with message profile updated successfully | Success toast with message profile updated successfully |
| 21 | Admin profile page, if admin changes name and click on update profile | name:  Admin Varachha | Success toast with message profile updated successfully | Success toast with message profile updated successfully |
| 22 | Admin profile page, if admin changes email with valid format and click on update profile | email:  eTicketAdmin22@gmail.com | Success toast with message profile updated successfully | Success toast with message profile updated successfully |
| 23 | Admin profile page, if admin changes mobile number without valid length and click on update profile button | Mobile number:  55677884 | Error toast with message, The length of mobile number must be equal to 10 | Error toast with message, The length of mobile number must be equal to 10 |
| 24 | Admin profile update modal if admin enter all the correct details and click on update button but authToken is not found in browser’s session Storage | Name:  Admin new  Username  New\_admin  Email  [newAdmin@gmail.com](mailto:newAdmin@gmail.com)  mobile number  7778887156  DOB  1/10/2004 | Success Toast with message , profile updated successfully | Error toast with message, Failed to authenticate user, please login again |
| 25 | Admin profile page, if admin click on upload button and upload an image with invalid format | Image:  Profile1.mp3 | Error toast with message, Please enter an image with valid format | Error toast with message, Please enter an image with valid format |
| 26 | Admin profile page, if admin click on upload button and upload an image with valid format | Image:  Profile1.jpg | Success toast with message, Profile updated successfully | Success toast with message, Profile updated successfully |
| 27 | Admin page, admin click on conductor service card | Click on conductor service card | Redirected to Manage conductor page and show all conductor data in tabular format | Redirected to Manage conductor page and show all conductor data in tabular format |
| 28 | Admin page, admin click on conductor service card but authToken was not found in browser’s sessionStorage | Click on conductor service card | Redirected to Manage conductor page and show all conductor data in tabular format | Error toast with message , Failed to authenticate user, please login again |
| 29 | Admin conductor service page, admin click on add conductor button | Click on add conductor button | A modal with form fields pop up | A modal with form fields pop up |
| 30 | Admin conductor service page, admin click on create conductor button on modal without entering any fields | Click on create conductor button | Error toast with message, please enter all the required fields. | Error toast with message, please enter all the required fields. |
| 31 | Admin conductor service page, admin click on create conductor button without entering name | Password  \*\*\*\*  Username  Conductor12  Email  [Conductor12@gmail.com](mailto:Conductor12@gmail.com)  DOB  1/12/1992 | Error toast with message, please enter all the required fields. | Error toast with message, please enter all the required fields. |
| 32 | Admin conductor service page, admin click on create conductor button without entering username | Password  \*\*\*\*  name  Conductor 12  Email  [Conductor12@gmail.com](mailto:Conductor12@gmail.com)  DOB  1/12/1992 | Error toast with message, please enter all the required fields. | Error toast with message, please enter all the required fields. |
| 33 | Admin conductor service page, admin click on create conductor button without entering email | Password  \*\*\*\*  Username  Conductor12  Name  Conductor 12  DOB  1/12/1992 | Error toast with message, please enter all the required fields. | Error toast with message, please enter all the required fields. |
| 34 | Admin conductor service page, admin click on create conductor button without entering dob | Password  \*\*\*\*  Username  Conductor12  Email  [Conductor12@gmail.com](mailto:Conductor12@gmail.com)  Name  Conductor 12 | Error toast with message, please enter all the required fields. | Error toast with message, please enter all the required fields. |
| 35 | Admin conductor service page, admin click on create conductor button without entering password | Name  Conductor 12  Username  Conductor12  Email  [Conductor12@gmail.com](mailto:Conductor12@gmail.com)  DOB  1/12/1992 | Error toast with message, please enter all the required fields. | Error toast with message, please enter all the required fields. |
| 36 | Admin conductor service page, admin click on create conductor button with all the required fields | Name  Conductor 12  Username  Conductor12  Email  [Conductor12@gmail.com](mailto:Conductor12@gmail.com)  DOB  1/12/1992  Password  \*\*\*\*\*\*\*\*\*\*\* | Success toast with message ,  Successfully created a new conductor | Success toast with message ,  Successfully created a new conductor |
| 37 | Admin conductor service page, admin click on create conductor button with all the required fields in modal , but due to some reason authToken is not found in browser’s sessionStorage | Name  Conductor 12  Username  Conductor12  Email  [Conductor12@gmail.com](mailto:Conductor12@gmail.com)  DOB  1/12/1992  Password  \*\*\*\*\*\*\*\*\*\*\* | Success toast with message ,  Successfully created a new conductor | Error toast with message, Authentication did not happen |
| 38 | Admin conductor service page, admin click on edit conductor button. | Click on edit conductor button corresponds to particular table row | Open the modal with all the information about conductor in fields and rights to edit them | Open the modal with all the information about conductor in fields and rights to edit them |
| 39 | Admin conductor service page edit conductor modal. Admin click on edit conductor without modifying any fields | Click on edit conductor fields with all existing data on textfields  Name:  Conductor1  Username:  Conductor\_1  Email:  [Conductor1@gmail.com](mailto:Conductor1@gmail.com) | Success toast with message , conductor edited successfully | Success toast with message , conductor edited successfully |
| 40 | Admin conductor service page edit conductor modal. Admin click on edit conductor without entering name | Username:  Conductor\_1  Email:  [Conductor1@gmail.com](mailto:Conductor1@gmail.com) | Error Toast with message, Please enter all the required fields | Error Toast with message, Please enter all the required fields |
| 41 | Admin conductor service page edit conductor modal. Admin click on edit conductor without entering username | name:  Conductor 1  Email:  [Conductor1@gmail.com](mailto:Conductor1@gmail.com) | Error Toast with message, Please enter all the required fields | Error Toast with message, Please enter all the required fields |
| 42 | Admin conductor service page edit conductor modal. Admin click on edit conductor without entering email | Name:  Conductor1  Username:  Conductor\_1 | Error Toast with message, Please enter all the required fields | Error Toast with message, Please enter all the required fields |
| 43 | Admin conductor service page edit conductor modal. Admin click on edit conductor with wrong username format | Name:  Conductor1  Username:  Conductor 1  Email:  [Conductor1@gmail.com](mailto:Conductor1@gmail.com) | Error toast with message, Please enter valid username format | Error toast with message, Please enter valid username format |
| 44 | Admin conductor service page edit conductor modal. Admin click on edit conductor with wrong email format | Name:  Conductor1  Username:  Conductor 1  Email:  [Conductor1@gmail](mailto:Conductor1@gmail.com) | Error toast with message, please enter the valid email format | Error toast with message, please enter the valid email format |
| 45 | Admin conductor service page edit conductor modal. Admin click on edit conductor with all the valid data | Name:  Conductor1  Username:  Conductor 1  Email:  Conductor1@gmail.com | Success toast with message, Conductor edited successfully | Success toast with message, Conductor edited successfully |
| 46 | Admin conductor service page edit conductor modal. Admin click on edit conductor with all the valid data but authToken is not found in browser’s sessionStorage | Name:  Conductor1  Username:  Conductor 1  Email:  Conductor1@gmail.com | Success toast with message, Conductor edited successfully | Error toast with message, authentication not happened |
| 47 | Admin home page, admin click on user service card | Click on user service card | Navigated to the manage user page | Navigated to the manage user page |
| 48 | Admin user service page, admin click on edit user button corresponds to the particular user | Click on edit user button corresponds to the particular user | Open up an edit user modal with various form fields filled with existing details of particular user | Open up an edit user modal with various form fields filled with existing details of particular user |
| 49 | Admin user service page edit user modal, admin click on edit user button without modifying any fields | Click on edit user button without modifying any fields | Success toast comes with message user edited successfully and edit user modal closes | Success toast comes with message user edited successfully and edit user modal closes |
| 50 | Admin user service page edit user modal, admin click on edit user button without modifying any fields and authtoken is not present in browser’s session storage | Click on edit user button without modifying any fields | Success toast comes with message user edited successfully and edit user modal closes | Error toast with message, Failed to authenticate user, please login again |
| 51 | Admin user service page edit user modal, admin click on edit user button, with modifying name field | Name:  User 2 | Success toast comes with message user edited successfully and edit user modal closes | Success toast comes with message user edited successfully and edit user modal closes |
| 52 | Admin user service page edit user modal, admin click on edit user button, with empty name field | Name:  “ “ | Error toast with message, please enter all the required fields | Error toast with message, please enter all the required fields |
| 52 | Admin user service page edit user modal, admin click on edit user button, with modifying unique user name | Username:  User\_2 | Success toast comes with message user edited successfully and edit user modal closes | Success toast comes with message user edited successfully and edit user modal closes |
| 53 | Admin user service page edit user modal, admin click on edit user button, with empty user name field | Username:  “ ” | Error toast with message, please enter all the required fields | Error toast with message, please enter all the required fields |
| 54 | Admin user service page edit user modal, admin click on edit user button, with modifying unique user name with invalid username format | Username:  User 2 | Error toast with message, please enter valid username | Error toast with message, please enter valid username |
| 55 | Admin user service page edit user modal, admin click on edit user button, with modifying existing user name | Username  User\_3 | Error toast with message, a user with this name already exist | Error toast with message, a user with this name already exist |
| 56 | Admin user service page edit conductor modal, admin click on edit user button, with modifying existing user name | Username  Conductor\_3 | Error toast with message, a user with this name already exist | Error toast with message, a user with this name already exist |
| 57 | Admin user service page edit user modal, admin click on edit user button, with modifying existing email | Email  modifiedUsernameEmail@gmail.com | Success toast comes with message user edited successfully and edit user modal closes | Success toast comes with message user edited successfully and edit user modal closes |
| 58 | Admin user service page edit user modal, admin click on edit user button, with empty email field | Email:  “ ” | Error toast with message, please enter all the required fields | Error toast with message, please enter all the required fields |
| 59 | Admin user service page edit user modal, admin click on edit user button, with invalid email format | Email:  user@gmail . com test @123 | Error toast with message, please enter valid email format | Error toast with message, please enter valid email format |
| 60 | Admin user service page edit user modal, admin click on edit user button, with modifying existing email | Email:  [aleradyExistedUserEmail@gmail.com](mailto:aleradyExistedUserEmail@gmail.com) | Error toast with message, The email is already registered | Error toast with message, The email is already registered |
| 61 | Admin user service page edit conductor modal, admin click on edit user button, with modifying existing email | Email:  [aleradyExistedConductorEmail@gmail.com](mailto:aleradyExistedConductorEmail@gmail.com) | Error toast with message, The email is already registered | Error toast with message, The email is already registered |
| 62 | Admin user service page edit user modal, admin click on edit user button, without modifying existing balance | Balance:  300 | Success toast comes with message user edited successfully and edit user modal closes | Success toast comes with message user edited successfully and edit user modal closes |
| 63 | Admin user service page edit user modal, admin click on edit user button, with modifying existing balance | Balance:  350 | Success toast comes with message user edited successfully and edit user modal closes | Success toast comes with message user edited successfully and edit user modal closes |
| 64 | Admin user service page edit user modal, admin click on edit user button, with empty balance field | Balance:  “ ” | System automatically consider 0 balance and updates the user balance to 0 and edit modal closes | System automatically consider 0 balance and updates the user balance to 0 and edit modal closes |
| 65 | Admin user service page edit user modal, admin click on edit user button by modifying fields and authtoken is not present is browser’s sessionStorage | Username:  New\_user  Name:  New user  Email:  [newUser@gmail.com](mailto:newUser@gmail.com)  balance:  120 | Success toast comes with message user edited successfully and edit user modal closes | Error toast with message, Failed to authenticate user, please login again |
| 66 | Admin user service page, admin click on delete user button corresponds to particular user | Click on delete button corresponds to the particular user | A confirmation modal open up with message, Are you sure you want to delete <username> | A confirmation modal open up with message, Are you sure you want to delete <username> |
| 67 | Admin user service page delete confirmation modal opens, admin click on disagree button | Admin click on disagree button | Confirmation modal closes | Confirmation modal closes |
| 68 | Admin user service page delete confirmation modal opens, admin click on agree button | Admin click on agree button | Success Toast with message, user deleted successfully | Success Toast with message, user deleted successfully |
| 69 | Admin conductor service page, admin click on delete conductor button corresponds to conductor | Click on delete button corresponds to the conductor | A confirmation modal opens up with message, are you sure you want to delete <username> | A confirmation modal opens up with message, are you sure you want to delete <username> |
| 70 | Admin conductor service page delete confirmation modal opens, admin click on disagree button | Admin click on disagree button | Confirmation modal closes | Confirmation modal closes |
| 71 | Admin conductor service page delete confirmation modal opens, admin click on agree button | Admin click on agree button | Success Toast with message, conductor deleted successfully | Success Toast with message, conductor deleted successfully |
| 73 | Admin user service page delete confirmation modal opens, admin click on agree button but authtoken is not available in browser’s sessionStorage | Admin click on agree button | Success Toast with message, user deleted successfully | Error toast with message, failed to authenticate user, please login again. |
| 74 | Admin conductor service page delete confirmation modal opens, admin click on agree button but authtoken is not available in browser’s sessionStorage | Admin click on agree button | Success Toast with message, conductor deleted successfully | Error toast with message, failed to authenticate user, please login again. |
| 75 | Admin home page, admin click on bus stops service card | Click on bus stops service card | Redirected to manage bus stops page and all bus stops data are fetched in table | Redirected to manage bus stops page and all bus stops data are fetched in table |
| 76 | Admin home page, admin click on bus stops service card but authtoken is not present in browser’s sessionStorage | Click on bus stops service card | Redirected to manage bus stops page and all bus stops data are fetched in table | Error toast with message, Failed to authenticate user, please login again  . |
| 77 | Admin bus stops manage page, admin click on add bus stop button | Admin clicks on add bus stop button | Add station modal pop ups with form fields | Add station modal pop ups with form fields |
| 78 | Admin bus stops manage page add station modal, admin clicks on add station button without adding any data | Admin click add station button inside add station modal | Error toast with message please enter all the required fields. | Error toast with message please enter all the required fields. |
| 79 | Admin bus stops manage page add station modal, admin clicks on add station button with adding all the valid fields | Station id:  4553  Station name:  Kapodara fire station  Latitude:  21.22063446  Longitude:  72.87518311 | Success toast with message, station added successfully, and all the forms fields is rosetted | Success toast with message, station added successfully, and all the forms fields is rosetted |

* **Test cases of Voter side:-**

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| **Serial No.** | **Description** | **Test data** | **Expected data** | **Actual data** |
| 1. | User login, Verify if a user will be able to login with valid userID and valid password. | Email ID:-  [m@gmail.com](mailto:m@gmail.com)  Password:-  \*\*\*\*\*\*\*\*\* | Login successful & Home page display | Login successful & Home page displayed |
| 2. | User login,  Verify if a user can’t login with a valid userID and invalid password. | Email ID:-  [m@gmail.com](mailto:m@gmail.com)  Password:-  Nbnrn | Login not successful | Login not successful |
| 3. | User login,  Verify the login page for both when the field is blank and Login button is clicked. | Email ID:-  **BLANK**  Password:-  **BLANK** | Login not successful | Login not successful |
| 4. | User login,  Verify the message for invalid login. | Email ID:-  m@gmail  Password:-  Nbnrn | Toast message display, Login not successful | Toast message displayed, Login not successful |
| 5. | User login,  Verify if the data in the password field is either visible as bullet signs. | Email ID:-  [m@gmail.com](mailto:m@gmail.com)  Password:-  \*\*\*\*\*\*\*\*\* | Login successful | Login successful |
| 6. | User login, Verify if a user is able to login with a new password only after he/she changed the password or profile. | User name:-  Misha  Mobile no:-  8956453567  Email ID:-  [m@gmail.com](mailto:m@gmail.com)  Password:-  \*\*\*\*\*\*\*\*\* | Password & Profile changed successfully | Password & Profile changed successfully |
| 7. | User Sign up, Verify if a user will be able to sign up with all the valid fields. | User name:-  Misha  Password:-  \*\*\*\*\*\*\*\*\*  Re-Password:-  \*\*\*\*\*\*\*\*\*  Email ID:-  [m@gmail.com](mailto:m@gmail.com)  Mobile no:-  8956453567 | Sign up successfully  & home page displayed | Sign up successfully  & home page displayed |
| 8. | User home page, In the election fragment Verify the election data shows in the screen. | Click on to the election fragment, election data shows clearly in the screen. | Opens voting page | Opens voting page |
| 9. | User home page, Verify that the notifications show or not. | Show the notification when election & result generated. | Notification display in the header successfully | Notification display in the header successfully |
| 10. | User home page, Verify that the Number of votes & winner name is display in the result screen or not. | When then result generated, Number of votes & winner name is displayed in the result screen. | Shows the result successfully | Shows the result successfully |
| 11. | User home page, Verify the rules display or not that is declared by the admin. | Click on the Rules from slider page or rules fragment. | Rules display successfully | Rules display successfully |
| 12. | User home page, Verify the sign out is successfully or not. | Click on to the sign out from slider page or sign out fragment. | Sign out successfully  & Login page displayed | Sign out successfully  & Login page displayed |