In order to write effective test cases for web application:

Checklist:

1. Understand the requirements
2. Familiar with flow of application
3. Prepare test data for test cases
4. Gather all the prerequisites
5. Prepare invalid and valid values
6. Prepare use cases
7. Preparing versions for modifying requirement

**Checklist for registration**

* ~~Check whether all mandatory fields are present.~~
* ~~Check the behavior after submitting an empty form.~~
* ~~Check whether a new user can register using all valid data and actions(like solving CAPTCHA or i am not a robert)~~
* ~~Check if all text fields have the placeholder text.~~
* ~~Check whether a user can fill all text fields using a keyboard key(Tab and Enter).~~
* ~~Check that homepage link exist or not~~
* ~~Check if the login page link exists or not.~~
* ~~Check whether a registration page includes a reset button.~~
* ~~Check if the reset button clears all the fields in the registration page by clicking on it.~~
* ~~Check whether a registration page redirects to the dashboard page after successful form submittion.~~
* ~~Check whether a registration page is user friendly or not~~
* ~~Check if error messages are displayed for empty mandatory fields~~
* ~~Check if warning message are displayed for invalid inputs~~
* ~~Check whether spelling mistake exist on registration page content~~
* ~~Check whether all fonts and field are properly aligned~~
* ~~Check if verification code or link are sent after form submitted~~
* ~~Check whether the registration page has a page title.~~
* ~~Check whether name field accepts only alphabet or numbers and special characters too~~
* ~~Check whether mobile number accepts numbers only or not and its digit length too~~
* ~~Check whether the email field accepts only valid email format or not.(eg~~ [~~asas@email.com~~](mailto:asas@email.com)~~)~~
* ~~Check if the date of birth field accepts date format only or not~~
* ~~Check whether the calendar is displayed when the date of birth is clicked.~~
* ~~Check whether the gender radio button accepts only one option at a time or not~~
* ~~Check if the password and confirm password field is toggled between hide and unhide password.~~
* ~~Check if the password and confirm password can be copied or not.~~
* ~~Check if the password and confirm password can be seen in page source or not.~~
* ~~Check whether the warning message is displayed if password and confirm password do not match~~
* ~~Check if password and confirm password field accepts valid password i.e.1 alphabet, 1 number, or 1 special characters and no space.~~
* ~~Check if password and confirm password field validation i.e. accepts less than 6 characters or more than 32 characters.~~
* ~~Check whether form submission success without selecting terms and condition checkbox.~~
* ~~Check whether successful registered user details are saved in the database in table form.~~
* ~~Check what happens if multiple users submit forms at the same time.~~
* ~~Check whether the given contact number or email address already exist in the database or not~~

**Checklist for login:**

* ~~Check the user login session durations~~
* ~~Check whether a user can be logged in using valid credentials.~~
* ~~Check whether a user can be logged in using invalid username and valid password.~~
* ~~Check whether a user can be logged in using a valid username and invalid password.~~
* ~~Check whether a user can be logged in using invalid username and invalid password.~~
* ~~Check whether a user can be logged in without providing any credentials.~~
* ~~Check if the “Forget you Password” link is available and works or not.~~
* ~~Check whether a user can be logged in using a keyboard key(Tab and Enter).~~
* ~~Check whether Email and Password text fields have the placeholder text.~~
* ~~Check what happens if a logged in user clicks the browser back button on the browser after logged in.~~
* ~~Check what happens if a user logged out from the applications and clicks on the browser back button.~~
* ~~Check what happens if a user attempts multiple numbers of unsuccessful login.~~
* ~~Check if the password field is toggled between hide and unhide password.~~
* ~~Check if the password can be copied or not.~~
* ~~Verheck if the user password can be seen in page source or not.~~
* ~~Check if the user is able to log in after changing the password.~~
* ~~Check whether the user is logged out, if the logged in user closes the browser and opens it again.~~
* ~~Check whether the user is able to get email verification after entering valid credentials.~~
* ~~Check whether the user is able to get OTP after entering valid credentials~~
* ~~Check the time duration for OTP code~~
* ~~Check whether the OTP can be used more that one time~~
* ~~Check whether the OPT code expires after 1 minute~~
* ~~Check whether the login page has remember me checklist or not~~
* ~~Check if the username field and password field accepts a space bar or not.~~
* ~~Check if the username and password field accepts numbers only or special characters only.~~
* ~~Check if the UI of the login page is simple or not.~~
* ~~Check if login functionality is supported in other different environments at the same time.~~
* ~~Check how fast the dashboard page redirects after entering valid credentials.~~
* ~~Check if the links(i.e. Facebook, linkedin, youtube, twitter) on the bottom left is valid or not.~~
* ~~Check whether the login page consists of page title.~~
* ~~Check if the username field and password field accepts only 1 character.~~
* ~~Check if the username field and password field accepts more than 10 characters.~~
* ~~Check if a “Cancel” button exists to remove all the entered characters in the text field.~~

**Checklist for Logout**

* ~~Check that the user gets logged out clicked to logout option~~
* ~~Check an app session status after logging and closing the browser without logging out~~
* ~~Check if a user is logging out and browsing back.~~
* ~~Check if the logout option is displayed under My account menu before logging in.~~
* ~~Check if a user is logging out and logging in immediately after logout.~~
* ~~Check whether a user is redirected to the login page after logging out.~~
* ~~Check if the user selecting logging out confirmation warning pop up screen with text: (“Are you sure to logout, Yes or No”) is displayed are not.~~
* ~~Check if logout functionality is supported in other different environments.~~
* ~~Check if the user session expires and logout if left for sometime after log in.~~
* ~~Check whether a user can be logged out using a keyboard key(Tab and Enter).~~

**Checklist for Dashboard**

* ~~Check whether the dashboard page title exists or not~~
* ~~Check the UI of Dashboard~~
* ~~Check whether all fonts and field are properly aligned~~
* ~~Check whether a new user can fill all the text fields using a keyboard key(Tab and Enter).~~
* ~~Check that homepage link exist or not~~
* ~~Check whether spelling mistake exist on dashboard page content~~
* ~~Check whether all fonts and field are properly aligned~~
* ~~Check whether a dashboard page is user friendly or not~~
* ~~Check if change password and logout option exist or not~~
* ~~Check if my profile option exists or not~~
* ~~Check if my profile can be edit or update or not~~
* ~~Check if your profile option redirect to your profile page~~
* ~~Check if all the information about employee details, actions, time at work.employee on leave, etc are displayed or not~~
* ~~Check if only authorized users can access the dashboard page.~~
* ~~Check the functionality of the edit button and delete button.~~
* ~~Check whether the authorized users can update or delete employee designations, details, salary, time etc~~
* ~~Check if the dashboard page opens smoothly.~~
* ~~Check if “tags to be added” section shows the listed tags~~
* ~~Check if listed tags render to their respective pages~~

Students portal

* ~~Check the functionality of search~~
* ~~Check the multiple checklist options while clicking on search field~~
* ~~Check the search option with placeholder text~~
* ~~Check if user select multiple option from search bar and click cancel button~~
* Check what happens if user click cancel button
* ~~Check if data is shown by search as per search request~~
* Check the x functionality of search bar
* ~~Check the filter by date functionality and check if calendar popup~~
* ~~Check the functionality of calendar to select filter by date from and upto the date~~
* ~~Check if data is shown by filter by date as per search request~~
* ~~Check the dropdown menu of filter by college name~~
* ~~Check if multiple option can be selected from dropdown~~
* ~~Check if data is shown by filter by college name as per search request~~
* ~~Check if student title exist in student container~~
* ~~Check if student enrolled is showing the result as per the data in student enrolled section~~
* ~~Check if Top 10 preference of students show list of subject or not~~
* ~~Check if Assignment Taken container is mapped with data in bar chart as per data(190=187)~~
* ~~Check if value is displayed if mouse is hovered in the candle of bar chart in assessments taken~~
* ~~Check if Trainings applied container is showing the correct data in bar chart as per data(496 =265)~~
* ~~Check if value is displayed if mouse is hovered in the candle of bar chart in trainings applied~~
* ~~Check if value is displayed if mouse is hovered in the doughnut bar with higher % value in the center~~
* ~~Check if top 5 courses with higher no of enrollment show true data as per enrolled data~~
* ~~Check if data is correctly mapped in all charts and graphs.~~
* ~~Verify all chart elements have clear and short labels.~~
* ~~Test the dashboard's responsiveness in different screen sizes and devices like desktops, tablets, and mobile phones.~~
* ~~Check that the "Students Enrolled: 2008" count on the dashboard matches the total number of student records marked as "enrolled" in the database.~~

Employee portal

* ~~Check the functionality of search~~
* ~~Check the multiple checklist options while clicking on search field~~
* ~~Check the search option with placeholder text~~
* ~~Check if user select multiple option from search bar and click cancel button~~
* ~~Check what happens if user click cancel button~~
* ~~Check if data is shown by search as per search request~~
* ~~Check the x functionality of search bar~~
* ~~Check the filter by date functionality and check if calendar popup~~
* ~~Check the functionality of calendar to select filter by date from and upto the date~~
* ~~Check if data is shown by filter by date as per search request~~
* ~~Check the dropdown menu of filter by company name~~
* ~~Check if multiple option can be selected from dropdown~~
* ~~Check if data is shown by filter by company name as per search request~~
* ~~Check if employee title exist in employee container~~
* ~~Check if employee enrolled is showing the result as per the data in employee enrolled section~~
* ~~Check if Top 10 preference of employee show list of subject or not~~
* ~~Check if Assignment Taken container is showing the correct data in bar chart as per data~~
* ~~Check if value is displayed if mouse is hovered in the candle of bar chart in assessments taken~~
* ~~Check if value is displayed if mouse is hovered in the candle of bar chart in trainings applied~~
* ~~Check if total enrollment in course container show true result in doughnut chart~~
* ~~Check if value is displayed if mouse is hovered in the doughnut bar with higher % value in the center~~
* ~~Check if top 5 courses with higher no of enrollment show true data as per enrolled data~~
* ~~Check if data is correctly mapped in all charts and graphs.~~
* ~~Verify all chart elements have clear and short labels.~~
* ~~Test the dashboard's responsiveness in different screen sizes and devices like desktops, tablets, and mobile phones.~~
* ~~Check that the "Employee Enrolled:54" count on the dashboard matches the total number of employee records marked as "enrolled" in the database.~~