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| Test Case | Description | Steps | Expected Results |
| **Task Handling** | | | |
| Add Task | Verify that a task can be successfully added to the application. | Open the task handling page.  Click on the "Add Task" button.  Fill in the required details for the task, such as task name, description, and deadline.  Click on the "Save" button. | The task should be added to the application and displayed in the task table. |
| Assign Employee to Task | Verify that an employee can be assigned to a task. | Open the task handling page.  Select a task from the task list.  Click on the "Assign Employee" button.  Choose an employee from the list of available employees. | The selected employee should be assigned to the task, and the assigned employee's name should be displayed for the task. And the employees available time should be deducted. |
| Validation for Mandatory Task Details | Verify that appropriate validation is applied to the task details. | Open the task handling page.  Click on the "Add Task" button.  Leave one or more required fields empty.  Try to save the task. | Validation error messages should be displayed for the empty required fields, indicating that the task details are mandatory. |
| Assign Estimated Time with Invalid Format | Verify that the application validates the format of the estimated time input. | Open the task handling page.  Select a task from the task list.  Click on the "Assign Estimated Time" button.  Enter an invalid format for the estimated time (e.g., non-numeric characters).  Click on the "Save" button. | The application should display an error message indicating that the estimated time format is invalid. |
| Assign Estimated Time with Negative Value | Verify that the application validates the estimated time to prevent assigning a negative value. | pen the task handling application.  Select a task from the task list.  Click on the "Assign Estimated Time" button.  Enter a negative value for the estimated time.  Click on the "Save" button. | The application should display an error message indicating that the estimated time should be a positive value. |
| **Employee Handling** | | | |
| Add Employee | Verify that a employee can be successfully added to the application. | Open the employee handling page.  Click on the "Add employee" button.  Fill in the required details for the employee, such as name, contact no, email  Click on the "Save" button. | The employee should be added to the application and displayed in the employee table. |
| Validation for Employee Details | Verify that appropriate validation is applied to the employee details. | Open the task handling page.  Click on the "Add Task" button.  enter invalid email address or invalid phone number.  Try to save the task. | Validation error messages should be displayed for the incorrect fields, indicating that the task details are not valid. |
| Validation for Mandatory employee Details | Verify that appropriate validation is applied to the employee details. | Open the employee handling page.  Click on the "Add employee" button.  Leave one or more required fields empty.  Try to save the employee. | Validation error messages should be displayed for the empty required fields, indicating that the employee details are mandatory. |
| Assign working hours with Negative Value | Verify that the application validates the working hours to prevent assigning a negative value. | open the employee handling application.  Click on the "Add employee" button.  enter a negative value for working hours.  Try to save the employee | The application should display an error message indicating that the working hours should be a positive value. |
| Searching with a valid keyword that matches employee names | Verify that the application successfully filter employee names using keywords. | open the employee handling application.  type a keyword on the search bar.  eg: Saman | the search should return all the employees whose names contain the keyword "Saman". The search results should be displayed correctly. |