In the attached zip file, lies the wastewise project which has several forms in it. I need to add the missing form validation in them. Since all the fields are required, maintain an asterisk for that. Use proper regular expression to evaluate phone number, strings mentioned in the table which follows.

Also you need to give a uniform feedback format (eg. Zone created successfully) after creation/updation/deletion of anything.

In the login page, invalid credentials is not displayed when wrong password is entered or wrong username is entered. Fix that too. When user id is entered, no space is allowed in it, in the current code which I have provided in the zip file, if extra space is added, then the user id is invalid (fix it).

Also make sure wherever date fields or time fields are mentioned, the start date/time should always be before the end date/time.

Here lies a table underscoring the details of the changes in the CRUD components.

|  |  |  |  |
| --- | --- | --- | --- |
| **Module** | **Create** | **Update** | **Delete** |
| Worker | Phone number validation. Number should be only 10 digit numbers and not start with 0. Also when creating the dto, it should be converted to String  Add Asterix \* over the labels  Add the back buttons | Add Asterix \* over the labels  Phone number validation. Number should be only 10 digit numbers and not start with 0. Also when creating the dto, it should be converted to String  If information is same give a warning and nothing is changed |  |
| Zone | Change the area input to number. And validate it is positive or not.  Area Coverage(sq. km) give sq. km as label and the user should only enter positive number  Add Asterix \* over the labels | Change the area input to number. And validate it is positive or not.  Area Coverage(sq. km) give sq. km as label and the user should only enter positive number  Add Asterix \* over the labels  If information is same give a warning and nothing is changed |  |
| Route | Add Asterix \* over the labels  Path- comma separated(A, B, C)  Estimated time should be in (int) minutes | Add Asterix \* over the labels  Path- comma separated(A, B, C)  Estimated time should be in (int) minutes  If information is same give a warning and nothing is changed | Add Asterix \* over the labels |
| Vehicle | Registration Number (XX-0000)  2 letters, 4 letters | If information is same give a warning and nothing is changed | Add Asterix \* over the labels |
| Login | Update the worker Id input field where the data should be converted to capital by default  Validate it, by matching the pattern.  Add Asterix \* over the labels |  |  |
| Admin dashboard | Here there is no crud and only 1 form to get the output from the graph, do proper validation here. |  |  |