

# UI - Project Specification

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## Visitor Management Application

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**Technology:** UI

**IDE:** Visual Studio Code, Brackets

**Focus:** HTML-5, jQuery, Bootstrap, AJAX, CSS

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### General Guidelines:

1. This UI project should be an end-to-end project; it should be developed by using client-side technologies as there is no involvement of sever-side technologies and databases.
2. Basic functionality to be covered in the project should include the following:
  - a. CRUD (Create, Read, Updated, Delete) operations
  - b. Basic validations of input data
  - c. Usage of local storage (to store the App data)
  - d. Responsive pages
  - e. Compatibility with all browsers
  - f. Following naming conventions and writing clean code
  - g. Each team member must work on a separate piece of functionality within this project
  - h. Work done by all the team members must be properly integrated to demonstrate the project functionality working successfully end-to-end
3. Guidelines on UI:
  - a. Use colors and images of your choice, but the screens should look presentable.
  - b. All screens must be completed with the required functionality and validations.
  - c. Screen to screen navigation must be fool-proof.
  - d. All the mandatory fields on various screens should be indicated by a red colored asterisk (\*).
  - e. All error messages should be displayed in red color below the corresponding fields that are in error.
  - f. If there are error messages displayed on a screen, the cursor should be positioned at the beginning of the first field that is in error.
  - g. The field-specific error message should be removed once the user starts correcting the data in that specific field.
  - h. Header and footer should appear on all screens.

### Project Requirements:

Create a **Visitor Management** application with the following functionalities:

1. Capture Visitor Details: The Information of the Visitor who wants to visit an Employee is captured here. It comprises of *Visitor Name, Visitor Phone Number, Visitor Driver License Number, Visitor Company Name, Coming From*. CRUD operations should be enabled on the Student Details.
2. Capture Employee Details: This screen is used to maintain the details of the Employee who gets Visitors. This information includes *Employee Name, Department, Employee Phone Number, and Designation*. CRUD operations should be enabled for this functionality.

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3. Capture Visit Details: This screen is used to capture the details of the visit. The fields on this screen include *Visit Date*, *Visitor Name*, *Employee Name*, *Purpose of Visit*, *Visit Duration*, and *Comments*.
4. Reporting by Employees' Visitors: For the entered *Employee Name*, the system should be able to show details of all the visitors he/she has had, including the details of each visit. If there are multiple Employees with the same name, details of all of their visitors should be displayed.
5. Reporting by Date: For the entered *Visit Date*, the system should display the complete details of all the visitors and the Employees they visited should be displayed.

The **Visitor Management** application must have the following information:

1. **visitorName**: Name of the Visitor (Mandatory)  
This is used to store the name of the Visitor. It cannot contain any numbers or special characters. Only alphabets from a – z are permitted.
2. **visitorPhoneNumber**: Visitor's phone number (Mandatory)  
This 10-digit number indicates the phone number of the Visitor. If the number of digits entered are not 10, display an appropriate error message and prompt the user to re-enter the data for this field.
3. **visitorDriverLicenseNumber**: Driver License Number of the Visitor (Mandatory)  
This field contains the Driver License Number of the Visitor. Note that each License Number should be unique.
4. **visitorCompanyName**: Name of the Company the Visitor represents (Mandatory)  
This is used to store the name of the Company the Visitor represents.
5. **comingFrom**: Name of the place where the Visitor is coming from (Optional)  
This field contains the name of the place where the Visitor is coming from.
6. **employeeName**: Name of the Employee (Mandatory)  
This is used to store the Name of the Employee. It cannot contain any numbers or special characters. Only alphabets from a – z are permitted.
7. **department**: Department the Employee works in (Mandatory)  
This is used to identify the Department of the Employee.
8. **phoneNumber**: Employee's phone number (Mandatory)  
This 10-digit number indicates the phone number of the Employee. If the number of digits entered are not 10, display an appropriate error message and prompt the user to re-enter the data for this field.
9. **designation**: Designation of the Employee (Optional)  
This field indicates the designation of the Employee.
10. **visitDate**: Date of Visit by the Visitor (Mandatory)  
This is used to store the Date the Visitor came to visit the Employee. This date cannot be a future date.
11. **purposeOfVisit**: Purpose of Visit (Mandatory)  
This is used to store the Purpose of Visit. It can contain only 2 values – *Official*, *Personal*.
12. **visitDuration**: Duration of the Visit (Mandatory)  
This is used to store the duration of the visit – in minutes. It can be any value between 1 – 120.
13. **comments**: Comments about the Visit (Optional)  
This is used to store any *Comments* about the Visit.

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## Generic Error Messages:

1. If a mandatory field is left blank or has only spaces, display the error message “**This field cannot be left blank.**”
2. If an alphabet is entered in a number only field (like item quantity, telephone number), display the error message “**Please enter only numerals**”.

## Detailed Specifications

*(The project team should work on this section and provide details, based on the overview of the project requirements provided above **and** referring the template of the project specification made available on Moodle.)*