

CONSTRUCTION SITE EVALUATION WEBSITE

A PROJECT REPORT

Submitted by

U REVANTHAN 15BCE0135
KEVIN PAUL THOMAS 15BCE0529
M PRIYADHARSHAN 15BCE0679

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Under the guidance of

Prof. Lydia Jane

ASSOCIATE PROFESSOR, SCOPE,

VIT University, Vellore



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1. Abstract:

Infrastructure is the basic physical systems of a business or nation; transportation, communication, sewage, water and electric systems are all examples of infrastructure. These systems tend to be high-cost investments; however, they are vital to a country's economic development and prosperity. Projects related to infrastructure improvements may be funded publicly, privately or through public-private partnerships. This Project realizes the importance of infrastructure in today's world and tries to make a web based application which will help in easy documentation and regulation of any projects on infrastructure. This project tries to eliminate the need of the contractor to be on site to regulate the project he will be able to do so remotely from one desk. In this manner we can maximize the yield of the work done by the contractor and also maintain a proper documentation of the projects over the cloud.

2. Introduction:

This project is done by providing the user a platform to upload the work done by the employees every day and assess it remotely, this puts a constant pressure on the employees to finish the day's task on time and also helps the contractor/ground level officer function without actually visiting the site.

The manager on ground is required to update attendance every day to keep a track of the wages that need to be deducted in case the employee takes unreasonable leaves.

The site also allows the senior company officials to keep a track of the work done by the employees, the daily progress of in their work and also the ability to view the remarks made by the ground level officer.

This system of work creates a structured environment for the company's supervisor and also creates a server for them to upload all the necessary documentation related to the project which can be viewed any time.

3. Module division:

1. Manager module M Priyadharshan 15BCE0679
2. Inspector module U Revanthan 15BCE0135
3. Supervisor module Kevin Paul Thomas 15BCE0529

4. MANAGER MODULE:

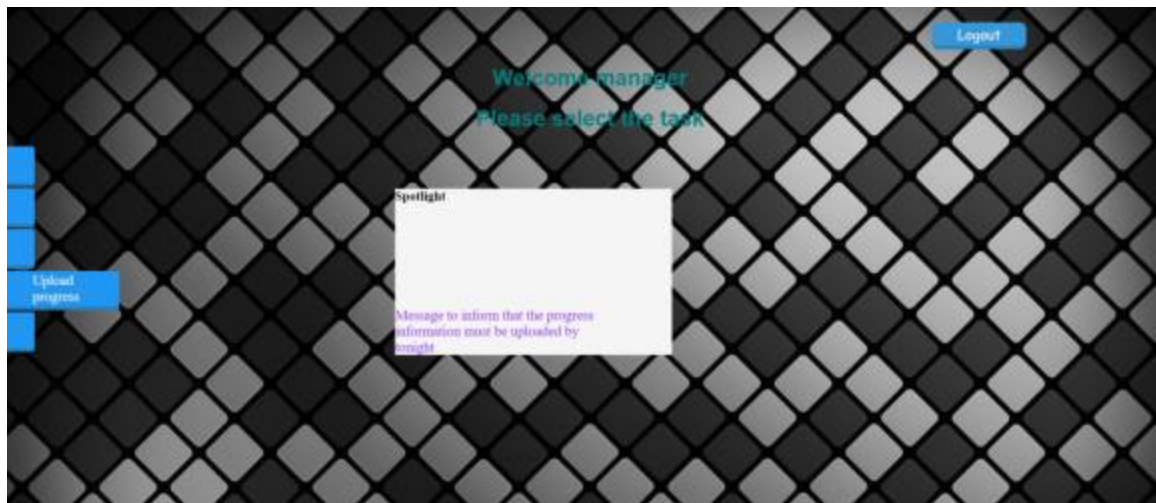
4.1. Manager login page module:

This module contains the login details entry space that asks the user for the credentials which is validated and lead to the manager homepage.



4.2. Manager homepage module:

This module contains the homepage for the manager login. It has the spotlight in the center that displays the message sent by the inspector and the supervisor. It has four side tabs Add employee, remove employee, upload attendance, upload progress, request materials that appear on sliding transition when hovered upon. These tabs lead to their respective pages when clicked. There is also a logout button to logout of the account.

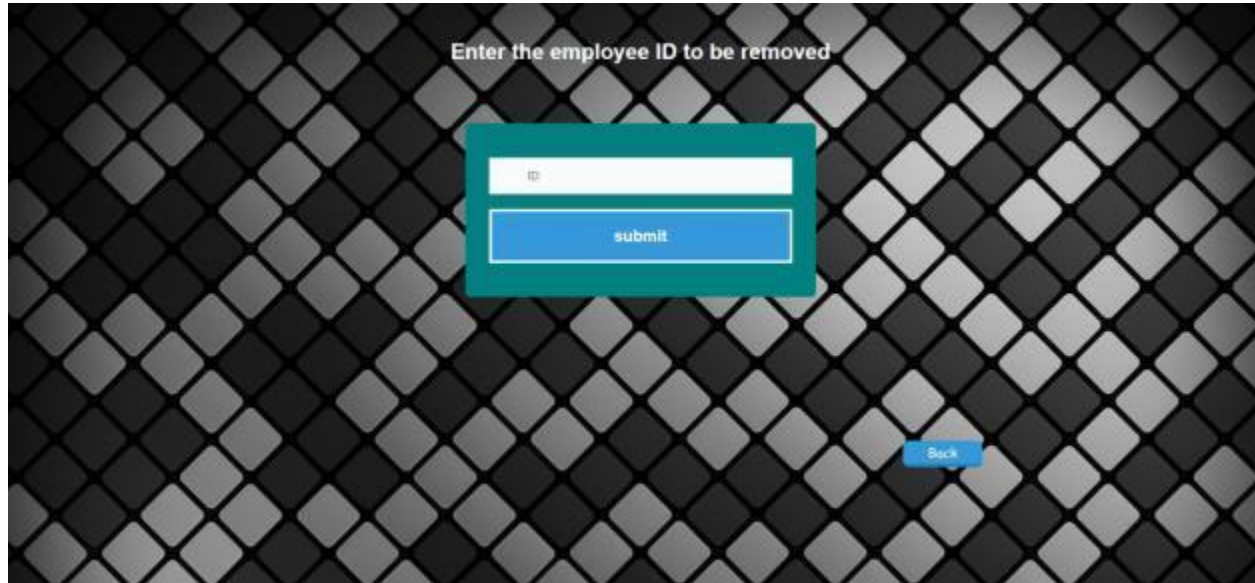


4.3. Add employee module:

This module consists of a form for the manager to fill in order to add a new employee database. It consists of the fields: name, birthdate, gender, designation, salary, mobile no., and address along with a submit button that submits the data.

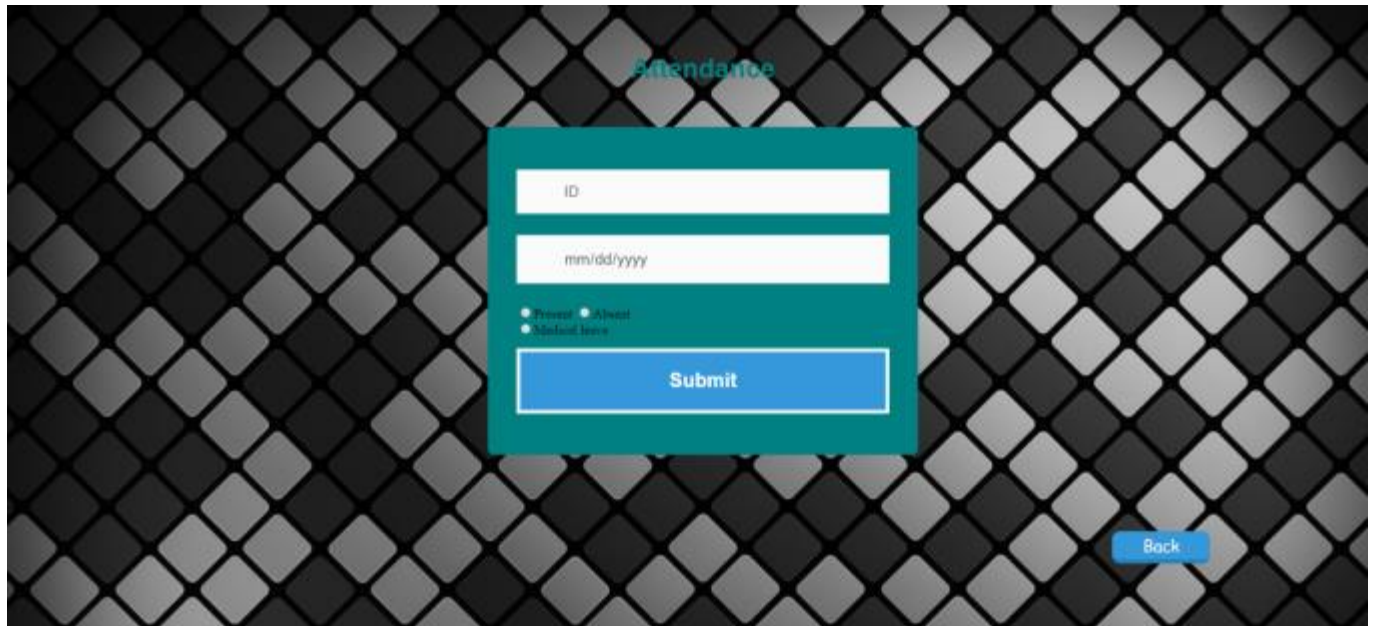
4.4. Remove employee:

In this module, the manager can remove the database of an employee by just entering his/her ID.

The screenshot shows a web application interface for removing an employee. The background is a dark gray diamond-patterned grid. At the top center, the text "Enter the employee ID to be removed" is displayed in white. Below this text is a teal-bordered form box. Inside the form box, there is a white input field with a small ID icon on the left, and a blue "submit" button below it. In the bottom right corner of the screen, there is a small blue "Back" button.

4.5. Upload attendance:

This module is used by the manager to update the attendance of any employee on a specific day. There are fields to enter the ID, date, and the status of the attendance (present, absent, medical leave)



A screenshot of a web form titled "Attendance" in a teal font. The form is enclosed in a teal border and contains the following elements: an "ID" input field, a date input field with the placeholder "mm/dd/yyyy", three radio buttons labeled "Present", "Absent", and "Medical leave", and a blue "Submit" button. The form is set against a dark background with a repeating diamond pattern. A small blue "Back" button is located in the bottom right corner of the page.

4.6. Upload progress:

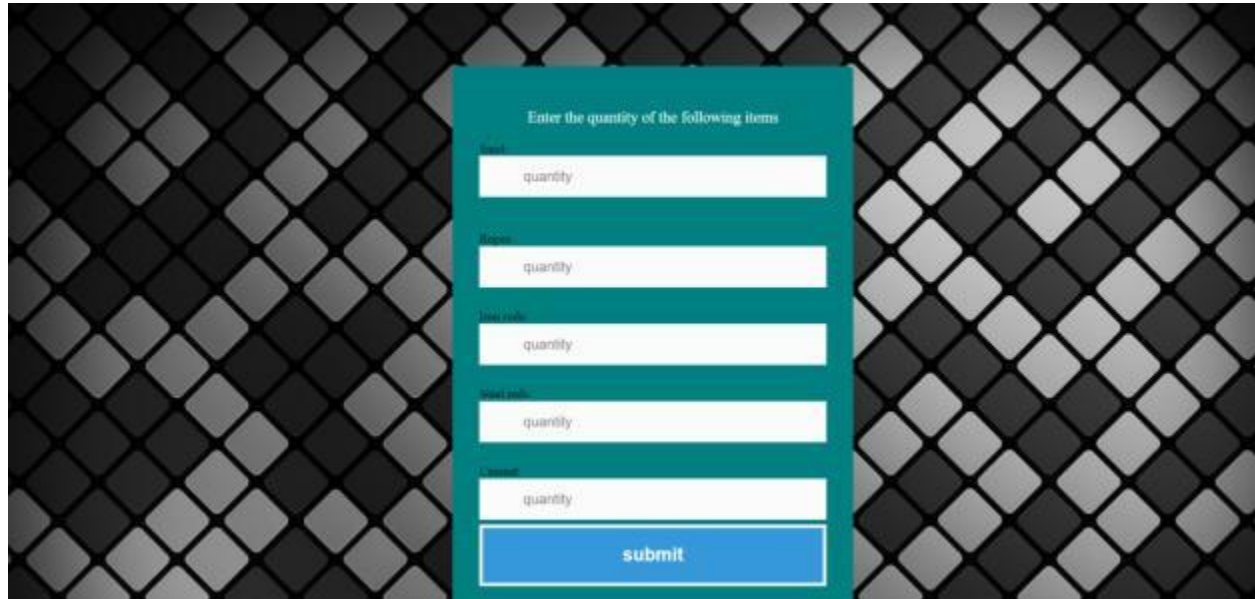
In this module, the manager is given the feature to upload the progress details by uploading an image and description in the description field that is given. This image is stored in the local database.



A screenshot of a web form titled "Picture" in a teal font. The form is enclosed in a teal border and contains the following elements: a file upload area with a "Choose File" button and the text "No file chosen", a large white text area for a description, and a blue "Submit" button. The form is set against a dark background with a repeating diamond pattern. A small blue "Back" button is located in the bottom right corner of the page.

4.7. Materials request:

This module is used by the manager to request any materials from the inspector. In this page there are fields to enter the quantity of the materials such as sand, ropes, iron rods, steel rods and cement. This is submitted for the inspector to view.

A screenshot of a web form titled "Enter the quantity of the following items" set against a dark, diamond-patterned background. The form is a teal-colored box containing five input fields, each with a label and the placeholder text "quantity". The labels are "Sand", "Ropes", "Iron rods", "Steel rods", and "Cement", each preceded by a small downward arrow icon. At the bottom of the form is a blue button labeled "submit".

Enter the quantity of the following items

Sand quantity

Ropes quantity

Iron rods quantity

Steel rods quantity

Cement quantity

submit

5. Inspector module :

5.1. Home page:

The home page of the construction auto evaluation website is required to browse through various different logins , a spotlight is present in this home page so that everyone can be able to view important instructions required for a specific project.



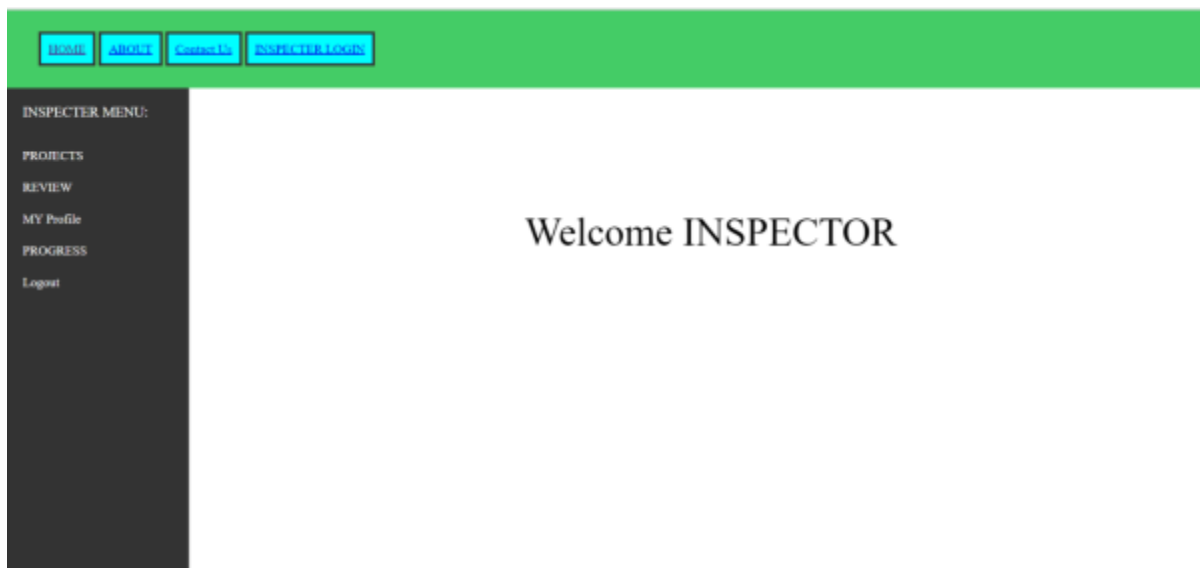
5.2. Inspector login:

Inspector has a login page which contains the login user name and the password to access his/her account. A session is created and in this session, the session variables which are stored are for the inspector id and the inspector name. If there is a mismatch of username or password an error message will be displayed in the login page.



5.3. Welcome page

After login , home page of the inspector login will be displayed , here the inspector can view different option in the sidebar and can choose any if it and browse through it.



5.4. Project List

When an Inspector chooses projects option, list of projects will be displayed which he has to inspect and give review for it. He/she can view details of the project and plan accordingly.



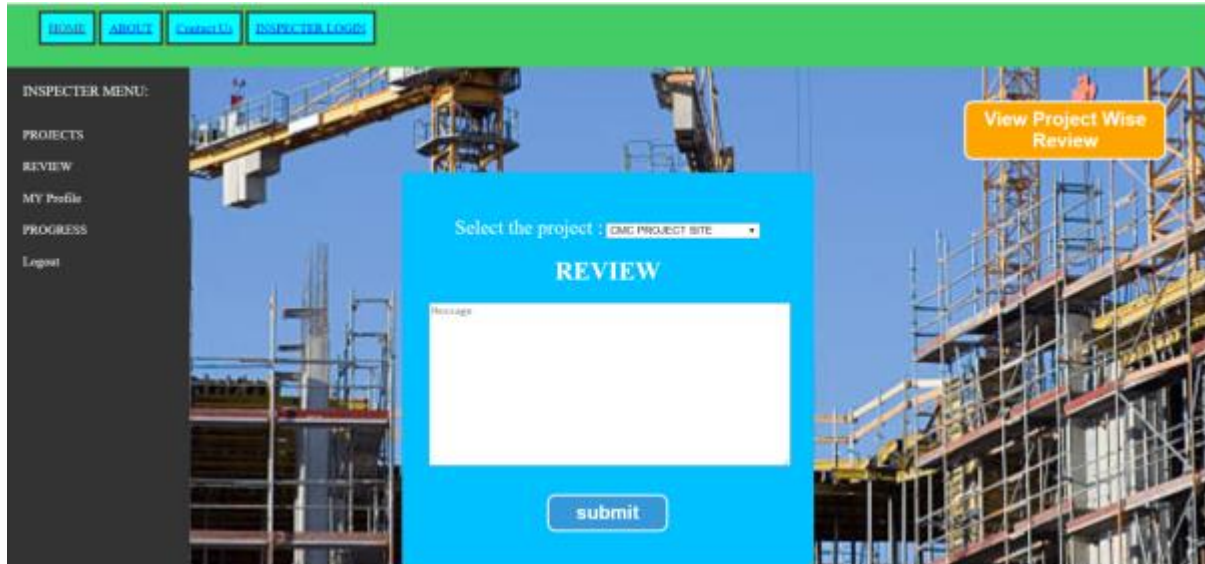
5.5. Project Details

This is an example of how a project page looks like , the site picture with its details will be displayed so inspector can have a quick view of all the projects under him.



5.6. Add Review

Inspector's main join is to inspect and give reviews to make the project succeed , in this page the inspector would be able to choose the project he/she would like to give review and it will be stored in the database. By clicking Project wise review he/she will be able to view all the review given .

The screenshot shows a web application interface for adding a review. At the top, there is a green navigation bar with four buttons: 'HOME', 'ABOUT', 'CONTACT US', and 'INSPECTOR LOGIN'. On the left side, there is a dark grey sidebar menu titled 'INSPECTOR MENU:' with links for 'PROJECTS', 'REVIEW', 'MY Profile', 'PROGRESS', and 'Logout'. The main content area features a large blue form titled 'REVIEW'. Inside the form, there is a dropdown menu labeled 'Select the project' with 'OMG PROJECT SITE' selected. Below this is a large white text area labeled 'Message'. At the bottom of the form is a blue 'submit' button. In the top right corner of the form area, there is an orange button labeled 'View Project Wise Review'. The background of the page is a construction site with scaffolding and cranes.

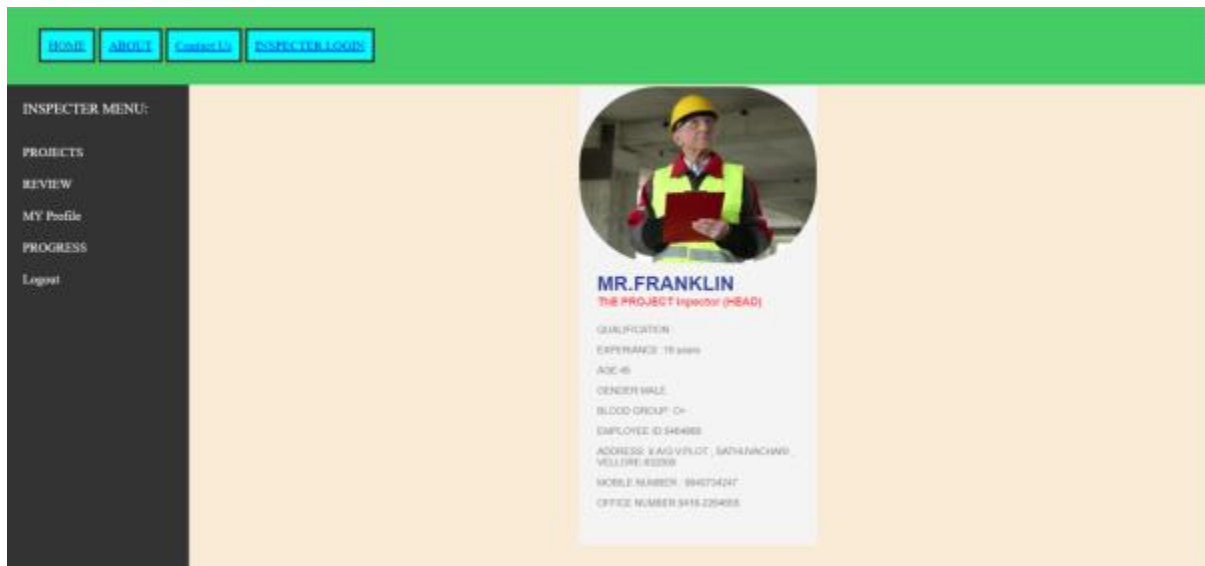
5.7. View Project Wise Review

On clicking View project Wise Review , this page will display all the review given by the inspector , so he/she would be able to see all the earlier reviews and inspect the project site wisely. This page will fetch the database and collect data from the table and displays it.



5.8. Profile Page

Every inspector should have their own profile , this page displays the details of the inspector who has logged in ie. Name, qualifications, age, blood group etc.



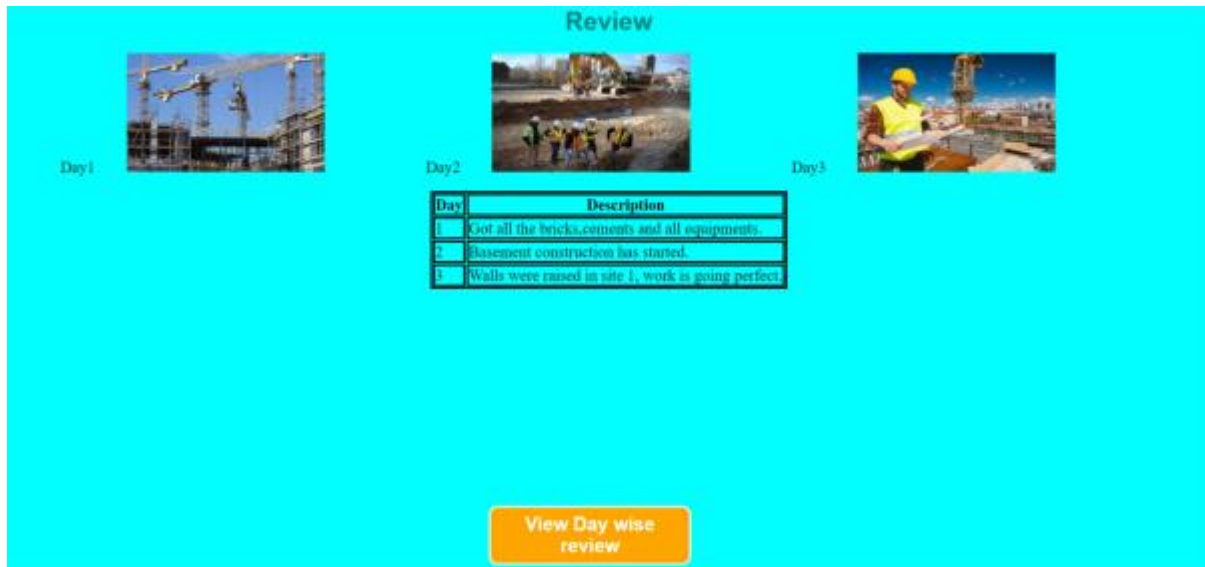
5.9. Project Progress

Inspector always keeps check of the progress of the projects he has undertaken , this page helps the Inspector to view the daily progress and give daily review of the work done. This page has all the project and details of it in the form of a table . If the inspector wants to check the progress he/she can click progress option and view it.

<div>HOMEABOUTContact UsINSPECTOR LOGIN</div>						
INSPECTOR MENU: PROJECTS REVIEW MY Profile PROGRESS Logout	PROJECTS:					
	SLNo	PROJECT ID	PROJECT NAME	AREA	CITY	PROJECT INCHARGE
	1	510001	VIT AUT PROJECT	KATPADI	VELLORE	MURUGAPPAN
	2	510002	VIT MB PROJECT	KATPADI	VELLORE	KEVIN PAUL
	3	510003	VIT TT PROJECT	KATPADI	VELLORE	PRYADHARSHAN
	4	510004	CMC PROJECT	RAMPET	VELLORE	GULLU
	5	510005	MDM hospital project	Sotharuchari	VELLORE	KUMAR
	6	510001	Vijay Apartments	Tharuvamudi	Chennai	Dhoni
PROGRESS						

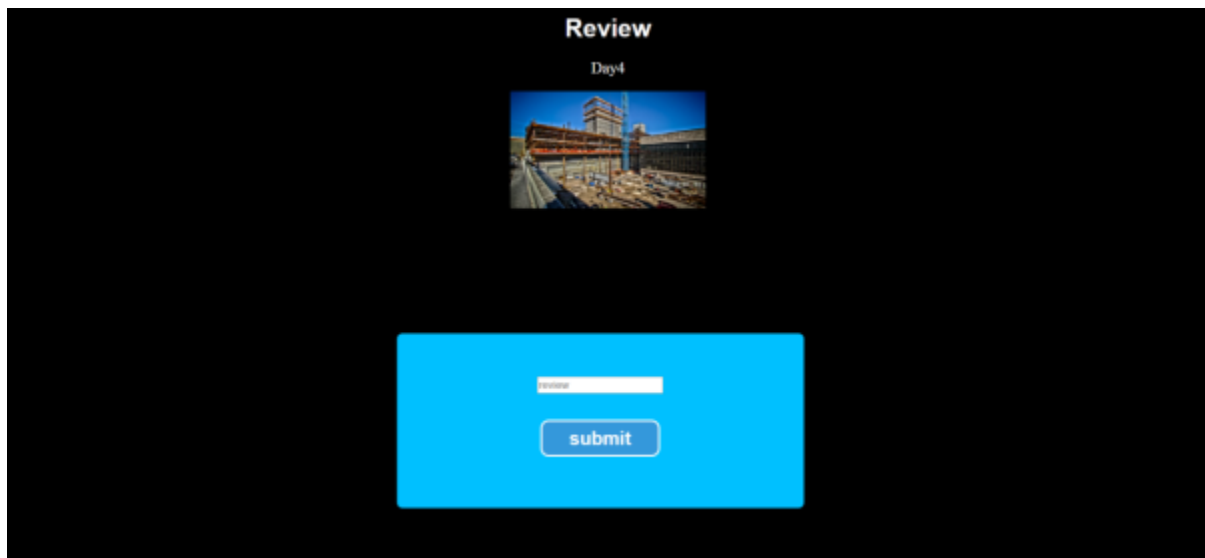
5.10. Daily Review

The picture and daily progress uploaded by the manager can be viewed by the inspector here , pictures, days and description of the work done on that particular day is displayed . IF the inspector wants to review the work done on a particular day he/she can click the picture of that particular day and he can upload the review.



5.11. Add Daily Review

This page will accept the review of that particular day regarding the work done and any corrections needed. These data will be updated in the database and can be fetched by clicking View Day wise review option in the progress page.



5.12. View Day Wise Review

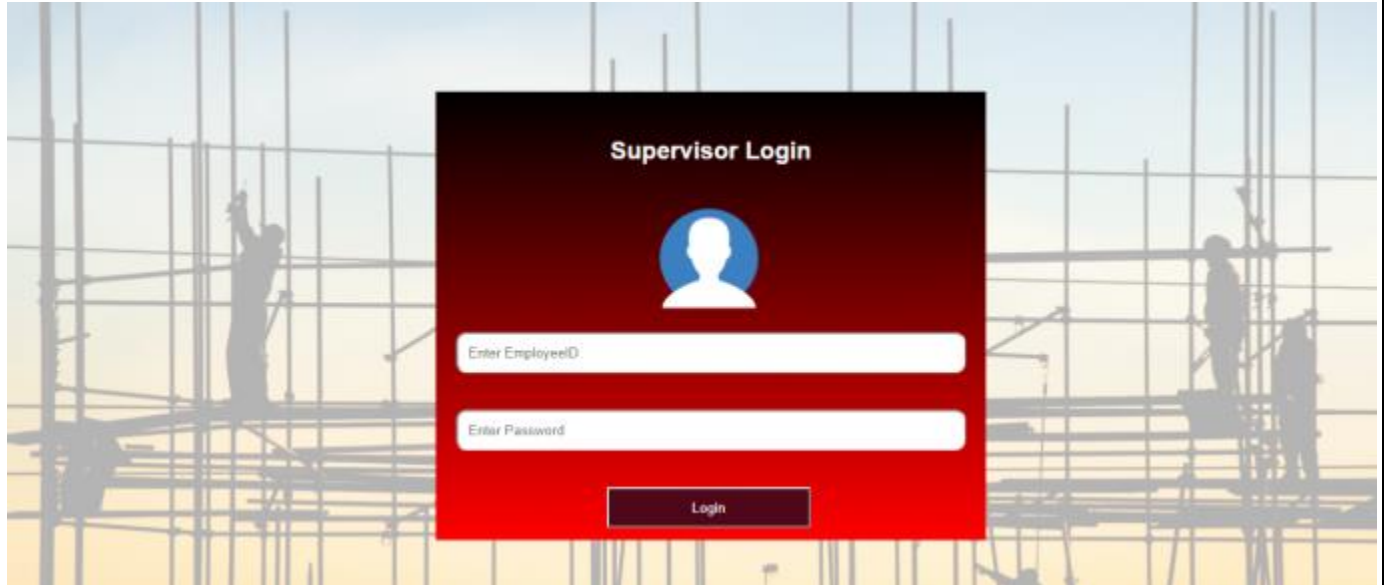
On clicking View Day wise review option in the progress page the inspector would be able to view the day of the work done , its description and review given in the form of a table.

Review Page		
Day	Description	REVIEW
1	Got all the bricks, cements and all equipments.	Good to know everything reached on time
2	Basement construction has started.	Good Basement, perfect.
3	Walls were raised in site 1, work is going perfect.	Keep up this work.

These are the various option available in the Inspector login .

3.SUPERVISOR MODULE:

Supervisor has a login page which contains the basic functionality of login where every supervisor is given an employee id and a password with which they have to login with. A session is created and in this session, the session variables which are stored are for the employee id and the supervisor name.



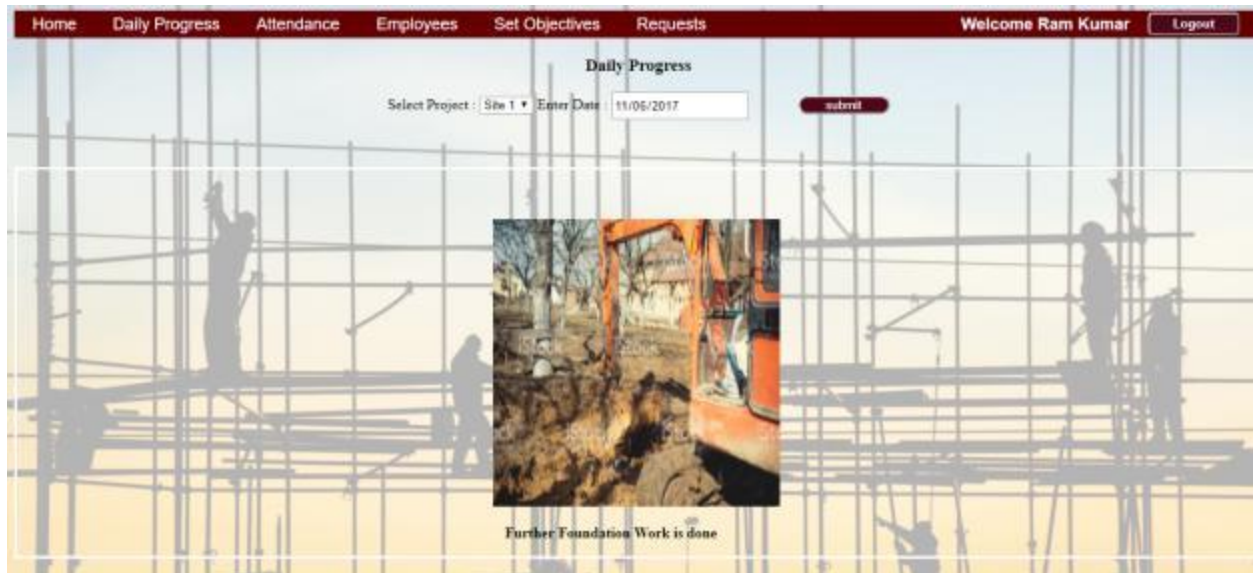
Home Page:

On logging in the supervisor is then lead to a homepage where he/she can see with the help of a spotlight all the activities that are taking place and which are due. The supervisor is greeted with a welcome message which is stored using a session variable. If the user clicks logout the session variables are destroyed and the user is redirected to the login page. The user can click any of the subsections on the menu bar above in order to navigate through the page.



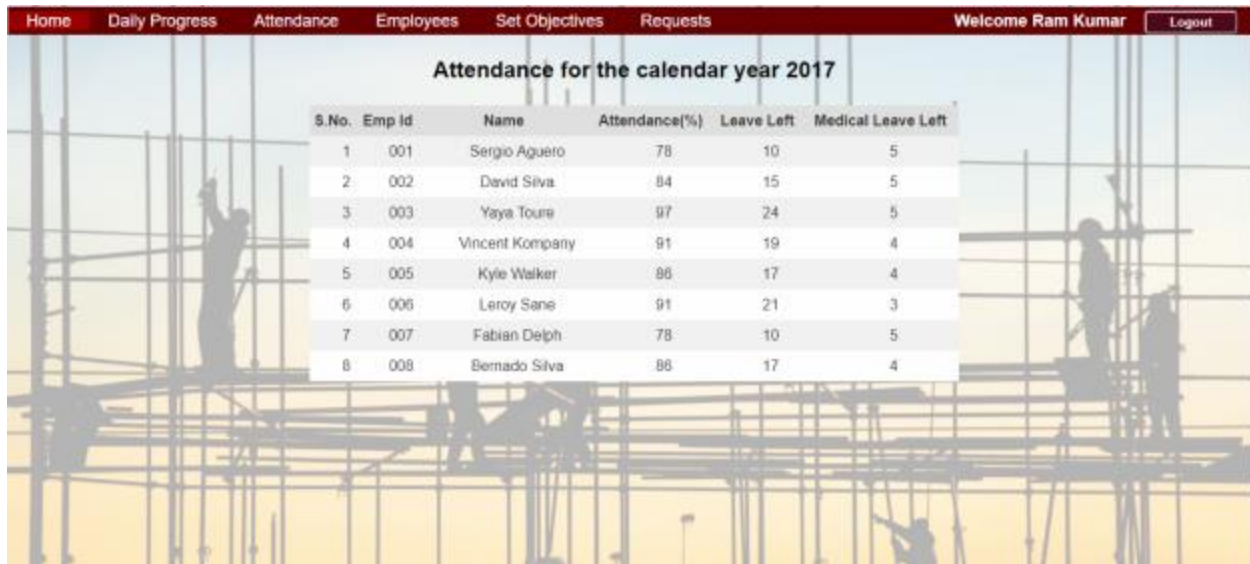
Daily Progress:

In this subsection the supervisor is provided the option of selecting an appropriate site and a date along with it in order to view the progress of that sit. On searching the data if there is no record of work done on that particular day it would display “no record of work done” otherwise it would display an image of the status and a text describing the status of the work done



Attendance:

In this subsection the supervisor has the option of viewing the attendance breakdown which has been uploaded by the manager. In this option the user has the option to view the percentage, the leave left and the medical leave left amount.



Attendance for the calendar year 2017					
S.No.	Emp Id	Name	Attendance(%)	Leave Left	Medical Leave Left
1	001	Sergio Aguero	78	10	5
2	002	David Silva	84	15	5
3	003	Yaya Toure	97	24	5
4	004	Vincent Kompany	91	19	4
5	005	Kyle Walker	86	17	4
6	006	Leroy Sane	91	21	3
7	007	Fabian Delph	78	10	5
8	008	Bernardo Silva	86	17	4

Employee:

In this subsection, the supervisor can view personal details of the employee by entering the employee id and entering submit. The employee details has been displayed in a table as shown in the image below. We can view Name, DOB, Gender, Native Language, Job Designation, Salary and Contact Details. This information has been stored in the table personal.

Home Daily Progress Attendance Employees Set Objectives Requests Welcome Ram Kumar Logout

Employee Profile

Enter Employee ID: 001

Personal Details	
Name	Sergio Aguerro
Date of Birth	22/03/1998
Gender	Male
Native Language	Tamil
Job Designation	Driver
Salary	8000

Contact Details	
Phone No.	9894301678
Address	No4 3rd Colony, Ram Nagar, Vellore

Request:

In this module the manager makes some requests for certain items and their quantity is also given to the supervisor. The supervisor is presented with the total amount each item costs and has the option to approve it. On sanctioning the purchase the manager would then have the authority to buy the required materials.

Home Daily Progress Attendance Employees Set Objectives Requests Welcome Ram Kumar Logout

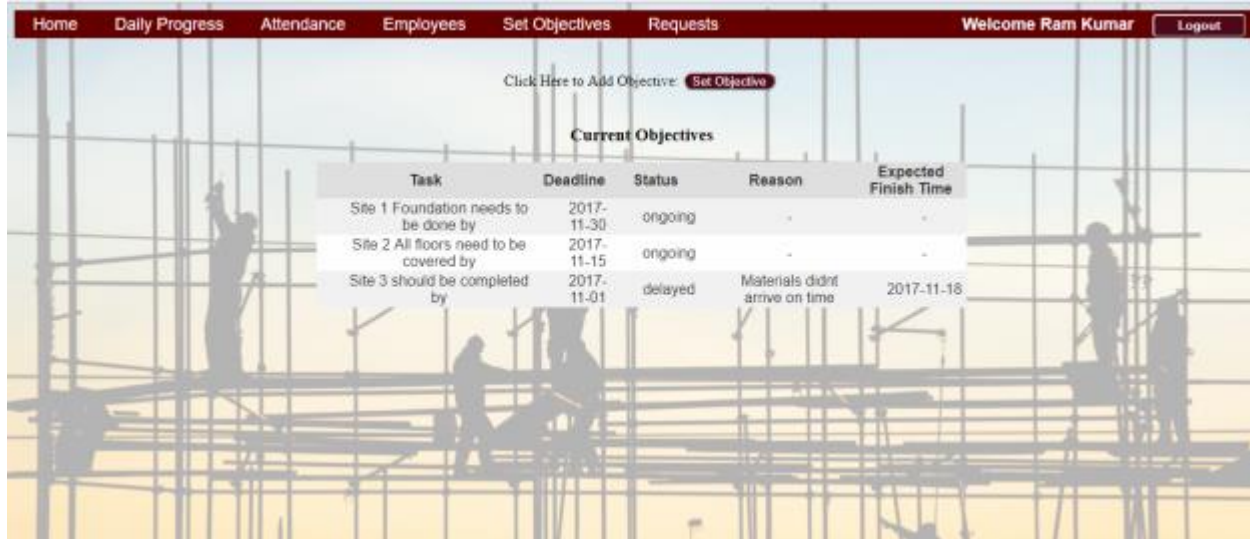
Requests for Calendar Year 2017

S.No.	Item Name	Quantity	Unit Cost	Total Cost	Status
1	rod	20	50	1000	approved
2	Cement	30	300	9000	approved
3	Hazard Tape	10	10	100	approved
4	sand	100	5	500	pending
5	wood	30	20	600	pending
6	glass	25	10	250	approved

Enter S.No.

Objective Module:

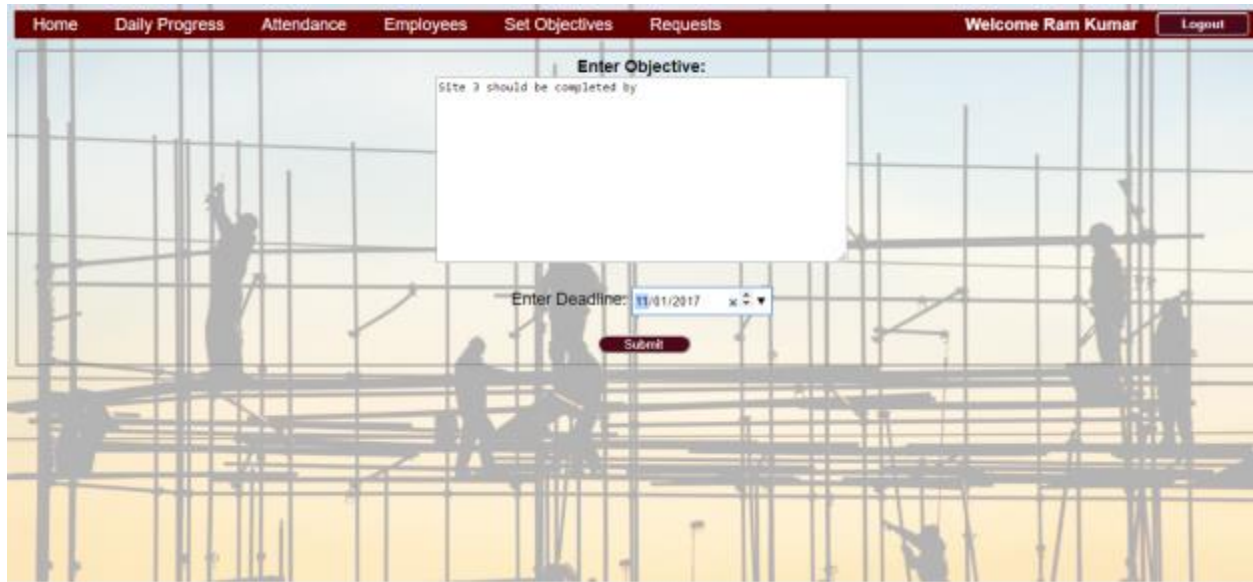
This module is where the supervisor can view multiple projects and the objectives which have been set to all of them. In this module the php script will automatically change the status to delayed if the date is earlier than the present date. It is then the responsibility of the manager to write the reason and to set an expected finish time.



Task	Deadline	Status	Reason	Expected Finish Time
Site 1 Foundation needs to be done by	2017-11-30	ongoing	-	-
Site 2 All floors need to be covered by	2017-11-15	ongoing	-	-
Site 3 should be completed by	2017-11-01	delayed	Materials didnt arrive on time	2017-11-18

Set Objective:

In this module the user is presented with a textbox where he/she can write the required objective and this message would then get passed on to the manager. The user is also expected to enter the deadline date and then press submit. On submission a text should appear saying 'objective set'.



Conclusion:

We have successfully created a construction management website which provides multiple functionalities and that can be utilized in a real time environment using HTML, CSS, PHP and Javascript.