

MONDON

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Web Applications Development. Final Project Guidelines and Proposal.

I. Project description

a. Decide why you need a web application.

It would be ideal to create MONDON (Monterrey Donations) because it is accessible to anyone with a computer, tablet or phone. It would also be able to connect to the organization websites and our database to get more information.

b. Scope

Our website will only include information in spanish about social organizations and donation centers in Monterrey, N.L..

c. Vision

To help organize and optimize the allocation of donations in the city of Monterrey, N.L..

d. Objective

Our main objective is to create a user friendly interface that helps people choose the right donation center in Monterrey for them to donate certain type of things.

e. Define the primary content of your web application

1. Home page
 - a. An overview of the webpage and how to use it.
2. Organizations and Donation Center
 - a. General information about the center will be displayed, including; its name, a description about its main cause, its location, contact information and an image
 - b. This information will be retrieved from the MongoDB.
3. Donate
 - a. Display a form where the user can select the type of products he or she wants to donate and the quantity. Depending on this information the website will show the Donation Centers and Organizations that can receive those items.
 - b. Information shown and uploaded from MongoDB
4. Contact Us
 - a. Form where the user can create a post and send it to us.

f. Define your secondary content of your web application

1. About Us
 - a. Brief description about our web application and our main goal.
2. Testimonies
 - a. Comments about the service of our webpage will be shown with images of the organizations or donation centers.

II. Requirements

a. Functionality and usability

The main functionality of this website is to analyze the information gotten from the input form and display the suitable Organizations and Donation Centers in order to inform the user on its choice of organization.

b. Style and layout

The style will be made using bootstrap. We are planning to design the web page with simple layouts; a navigation bar will be placed on the top of the page, information will be divided with containers and the font and colors will be user-friendly. The style of our text will be a sans-serif font.

c. Functional requirements

i. User Requirements

- The user can choose which clothes or objects they want to donate
- The user can add the amount of material they want to donate
- The user can create a post with any information and send it to our email

ii. System Requirements

- The system will show the information of every organization or center
- When the user selects the search button, the system will check if the form is filled correctly.
 - If the form is correct, the system will send the information to the database and check if any organization enters the criteria.
 - The system will show those organizations in a list.
- When the user creates a post and selects the send button, the system will check if the post was filled.
 - If it was, it will send the message to our email and refresh the page.

d. Non-functional requirements

- The web application must take no more than one second 99% of the times to answer a request
- The website can be accessed with Chrome, Safari and Internet Explorer

III. Specifications

a. Functional Specifications

- After the user submits its form, the web application should be able to fetch the request from the form and get the necessary information from the database
- After getting the information, the web page must display in the corresponding container the information gotten from the database.

b. Design Specifications

- The web application will contain a header section that includes the nav bar, a main section, and a footer.
- The main menu of the web page, displayed in the nav bar, will be visible in any subpage.
- The content of each subpage will only be displayed when the user is in the corresponding page.
- The footer will contain the links to our secondary pages
- The color pallet used for this page will be the following:

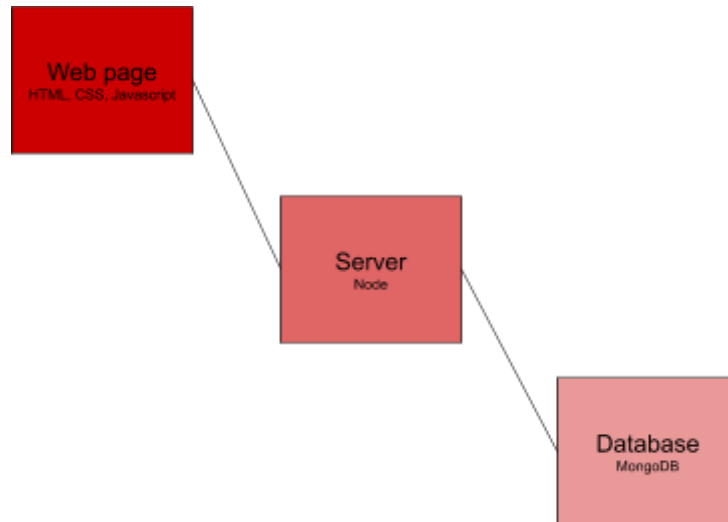


c. Technical Specifications

- The web application progress of development will be uploaded and tracked in Github.
- The server, router, and model will be implemented using Node.js
- The access to the database will be implemented in the server using the necessary mongo/mongoose commands.

IV. System Architecture

a. Software architectural pattern



b. Development platform

We will develop the web page using Visual Studio Code in Mac OS Mojave to edit the files of the project.

c. Components

i. Front-end

- Framework: HTML5, Bootstrap

ii. Back-end

- Server: Node
- Database: MongoDB
 - Collection of donations and organizations