

Enter-connectivity

Preserving Relationships



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# Introduction

Enter-connectivity is a program that was developed to promote the continued strengthening of relationships. A user will be able to keep track of all the people they wish to interact with on a consistent basis. The program will update the user on birthdays, which people to contact, and how long it has been since the two individuals last interacted. The aim of this project is to help people stay in contact with their friends and family. The server holds all of the data for the users, so that they can access it from anywhere or on any device.

# Basic Operation

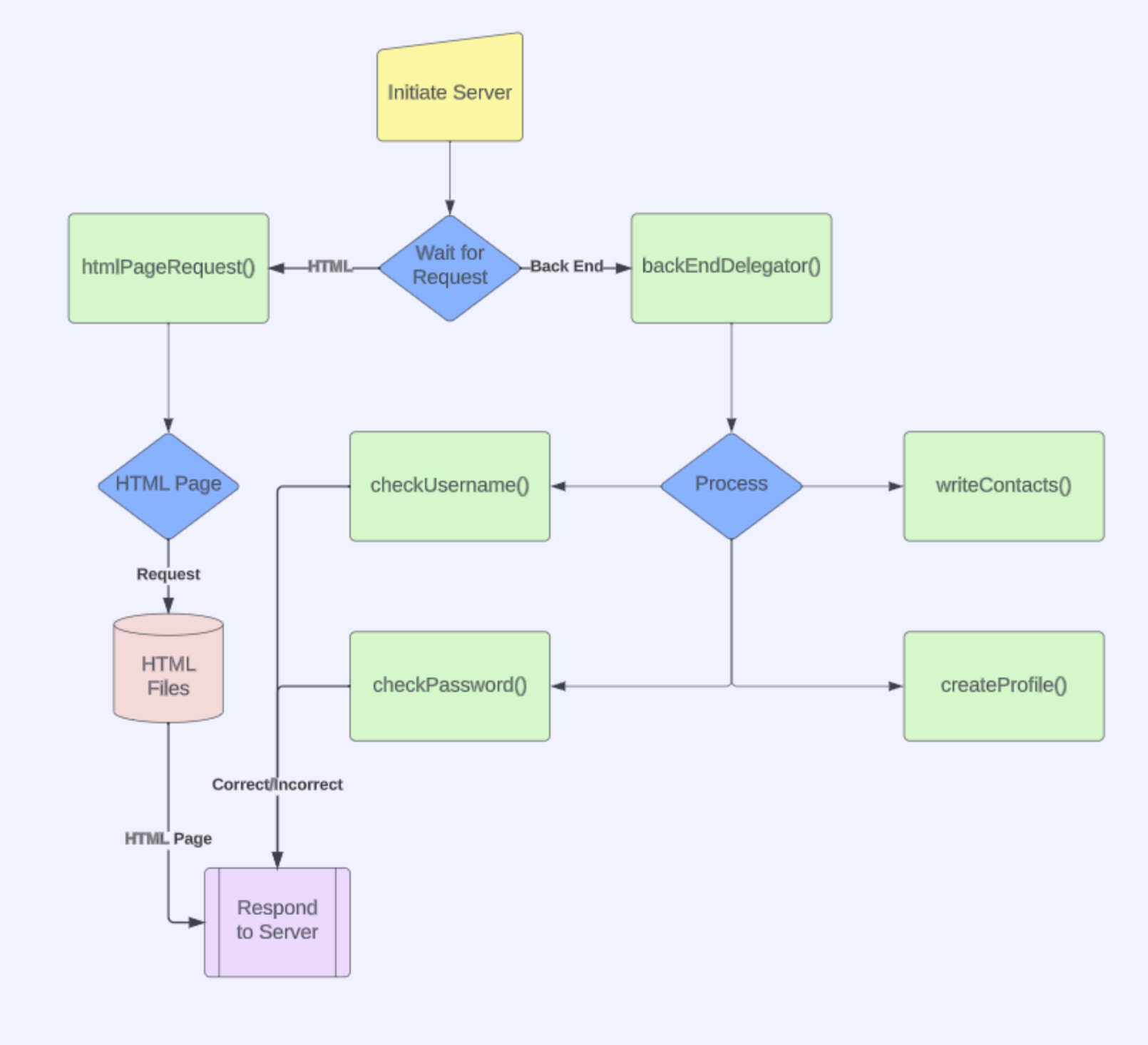
Enter-connectivity works in two segments, the Server side and Client side. The server deals with the logic of the program, reading and writing data, creating contact data variables, and storing of the information. The client side, written primarily in HTML, provides the User Interface of the program.

## Server

The server

## Client

# Design Diagram



# Coding

There are quite a few files used in this project, split into different files for the convenience of modularization.

## Server Side

## Contact.js

* contactCreate()
  + Parameters: Takes in a name, birthday, email, phone number, data of last contact, and how often the user would like to interact with that individual.
  + Function: Creates a contact variable that works similar to an object. It helps standardize how information is worked with and stored for ease of use.
  + Returns: A dictionary variable that contains all of the contacts information.
* dateToText()
  + Parameters: Takes in a date variable.
  + Function: Selects specific information from the date variable and reformats it into a more easily used format.
  + Returns: A string variable version of the date.
* textToDate()
  + Parameters: Takes in a string variable.
  + Function: Reformats the string date into a date variable.
  + Returns: A date variable.
* textContact()
  + Parameters: A dictionary variable for a contact.
  + Function: Using the input of the dictionary, it reformats the contact data into a string variable that can be used for writing contacts to storage in the read-write.js file.
  + Returns: A string version of the dictionary.
* separateContacts()
  + Parameters: An array of strings that are used to represent contacts and their information.
  + Function: The function will separate the list of strings into the individual contacts and their information. This takes the output from readContacts() in the read-write.js file and breaks the array of strings back into contacts so that the data can be handled in a reasonable manner.
  + Returns: An array of dictionaries the represent contacts and their information.
* outputContacts()
  + Parameters: An array of dictionaries that represent contacts and their information.
  + Function: Prints out all of the information to the console. Primarily used by server admins to debug and test the reading, writing, and other capabilities of the server.
  + Returns: Nothing.

## Read-write.js

* readContacts()
  + Parameters:
  + Function:
  + Returns:
* writeContacts()
  + Parameters:
  + Function:
  + Returns:
* checkPassword()
  + Parameters:
  + Function:
  + Returns:

## Server-commands.js

## Client Side

# Demonstration

# Difficulties

* Port Forwarding
  + Two NAT systems
* DMZ
  + Two NAT systems
* Learning Javascript
* Ngrok
  + Not enough time

# Future Additions

Desktop application

Allow adding of existing contacts from phone/other apps

Suggestions for possible outings

# Conclusion