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GOVERNMENT OF INDIA

**MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP**

DIRECTORATE GENERAL OF TRAINING

**NATIONAL SKILL TRAINING INSTITUTE**

NSTI Campus, Chunabhatti, Sion(E) Mumbai-400022

**CERTIFICATE**

This is to certify that following trainees have completed their project titled

**“NSTI Smart Cloud Campus”**

**For IBM Program – IT, Networking and Cloud (Technical Diploma)**

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ABSTRACT

Our project is a fruit website. This is a website which helps people to find and buy all types of Fruits.

It is useful in the way that it makes an easier way to buy and sell fruits online.

This website is an interactive solution providing users with an opportunity to buy and sell fruits.

Fruit kart is an online platform which deals with all types of fruits.

In this website we have basically 2 Modules the customer module and the second module include the admin module.

The customer has to register for any enquiry related to fruits.

The registered customer can view details of fruits and he/ she can buy or sell the fruits of his/her need.

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CHAPTER-1

1.1 INTRODUCTION:

A web application (or web app) is application software that runs on a webserver, unlike computer-based software programs that are run locally on the operating system (OS) of the device. Web applications are accessed by the user through a web browser with an active network connection. These applications are programmed using a client-server modeled structure—the user ("*client*") is provided *services* through an *off-site server* that is hosted by a third-party. Examples of commonly-used web applications include: web mail, online retail sale, online banking, and online auctions.

In 2005, the term Ajax was coined, and applications like Gmail started to make their client sides more and more interactive. A web page script is able to contact the server for storing/retrieving data without downloading an entire web page.

In 2007, Steve jove announced that web apps, developed in HTML 5 using AJAX architecture, would be the standard format for iphone apps.

Through HTML, Java script, CSS,Flash, Silverlight and other technologies, application-specific methods such as drawing on the screen, playing audio, and access to the keyboard and mouse are all possible. Many services have worked to combine all of these into a more familiar interface that adopts the appearance of an operating system.

Applications are usually broken into logical chunks called "tiers", where every tier is assigned a role.web applications are often simplified by the use of web application frameworks. These frameworks facilitate Rapid application development by allowing a development team to focus on the parts of their application which are unique to their goals without having to resolve common development issues such as user management.

1.2 OVERVIEW:

Fruit kart web application is a very useful application. It is work on

all browsers. Customer and seller know about all information by this

application. He/she knows the different types of fruits. They easily

contact with their seller and buyer through the message and blog

system. We provide different types of facilities by this application.

Users are always satisfied using this application. in this application

home, contact and message systems.

1.3 FEATURES:

This web application work on all types of browsers.It is user frie

ndly. we use HTML, CSS, Java scripts and other programing lang

uage. We used a step by step process to make this web applicati

on. This application provide many information price, different

types of fruits. We added home page, blog, and contact and oth

ers different items. He/she send messages by this application and

These messages are saved on our database. Then we know custo

mers queries. They contact our phone no and via mail system.

1.4 ADVANTAGES:

1.Zero install- all pcs have a browsers

2.Reduces business costs- less time spent talking to customers

over the phone eliminated materials, allow users to update theirs

details.

3.centralised data is secure and easy to backup.

4. reach anybody, anywhere in this world.

5.Available 24 hours a day, 7 days a week.

6.Low spec PCs or smartphones can be used.

7.Direct access can be completed at the user's own time and place.

8.Always up-to-date.

1.5 SCOPE:

project scope planning is immensely important project management and sometimes be seen as complex topic that up alot and these are the

following some scopes:

1 Requirements: fruits kart web application give many types of requirements like blogs, messaging system, subscribe and email

systems. we works for our future requirements that make this

more comfortable and reliable for our users.

2.roles and responsibilities:

All our team members work daily for this web application.they

changed many of features thats makes its comfortable for our

users.we gave a special name for this website “fruits kart”. this

The name indicates our web application is unique and attractive.our shop name is jof fruits shop.every members did their work on time.

all work divided by section and each group.

3. stakeholder Acceptance:

before finalising the project management for the “fruits kart” web

design, the client(jof shop) and other pertinent stakeholder review

along with the project manager and/or team the formulated scope

to make sure that everyone is in agreeance in terms of what the

application is complete or not.

1.6 Future work:

The application can be easily implemented under various situation

s. We can add new features as and when we require.Reusability is

possible as and when required in this application. this is flexibility

all the modules. the software is extendable in ways that its original

developers may or not. We can update it in the next version. sharing

of newly written code within a project.

CHAPTER-2

SERVICES AND TOOLS

REQUIRED

2.1 SERVICES USED:

web application are made by differents types of programming

languages,services, and others tools. Here we using some few

programming languages.

2.1.1 HTML:

The HyperText Markup Language, or HTML is the standard markuplanguage for documents designed to be displayed in a web browser. It can be assisted by technologies such as cascading style sheets(CSS) and scripting languages such as java scripts.Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages.HTML are the building blocks of HTML pages. With HTML constructs images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to creatstructred documents by denoting structural semantics for text such as headings, paragraphs, lists,links, quotes and other items. HTML elements are delineated by *tags*.

2.2. TOOLS AND SOFTWARES USED:

2.2.1 NODEJS:

Node.js is open source, cross platform, back-end javascript runtimeenvironment that runs on the V8engine and executes JavaScript code outside a web browser. Node.js lets developers use JavaScript to write command line tools and server side scripting —running scripts server-side to produce dynamic web page content before the page is sent to the user's web browser. Consequently, Node.js represents a "JavaScript everywhere" paradigm..js is the standard filenameextension for JavaScript code, the name "Node.js" doesn't refer to a particular file in this context and is merely the name of the product. Node.js has an event-drivenarchitecture capable of asynchronous. These design choices aim to optimize throughput and scalability in web applications with many input/output operations, as well as for real-timeweb applications.

2.2.2 MONGODB:

MongoDB is a document database with the scalability and flexibility that you want with the querying and indexing that you need.

* MongoDB stores data in flexible, JSON-like documents, meaning fields can vary from document to document and data structure can be changed over time
* Ad hoc queries, indexing, and real time aggregation provide powerful ways to access and analyze your data
* The document model maps to the objects in your application code, making data easy to work with
* MongoDB is a distributed database at its core, so high availability, horizontal scaling, and geographic distribution are built in and easy to use
* MongoDB is free to use. Versions released prior to October 16, 2018 are published under the AGPL. All versions released after October 16, 2018, including patch fixes for prior versions, are published under these server side public License(sspl).

*important technologies*

*programming languages*

*HTML,CSS,Javascript, boot stratrap*

*runtime environment-nodejs*

*Tools used*

operating system- window 10

mongodb

*Hardware used*

processor-intel core i3

RAM-4GB

Hard Disk-1tb

\* TESTING:

their testing in several ways, which may result in harder than traditional application testing. Suitable methods and techniques have to be defined and used to test Web applications effectively. This chapter will present the main differences between Web applications and traditional ones, and how these differences impact the testing of Web applications. It also discusses relevant contributions in the field of Web application testing, proposed recently. The focus of the chapter is mainly on testing the functionality of a Web application, although discussions about the testing of non-functional requirements are provided too.

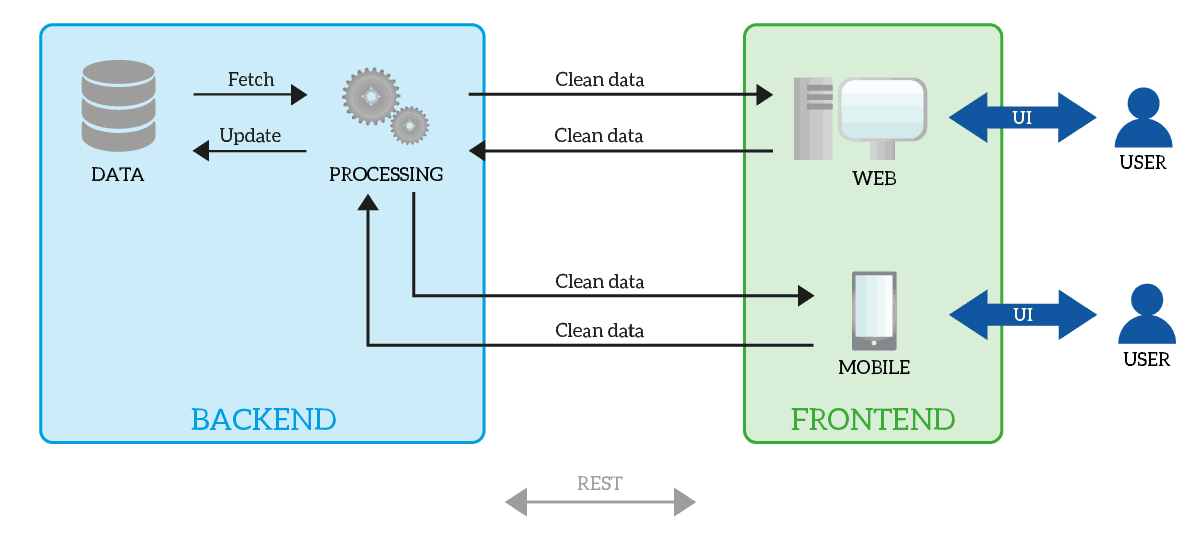
CHAPTER-3

PROJECT ARCHITECTURE

3.1 Architecture

USER FRONTEND BACKEND

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| --- | --- | --- |
| User Internet | HTML 5Web design | NODEJS 14.0Node.js JavaScript npm Computer Icons Web application, text, logo png |  PNGEgg    DatabaseCloudant - Crunchbase Company Profile &amp; Funding |



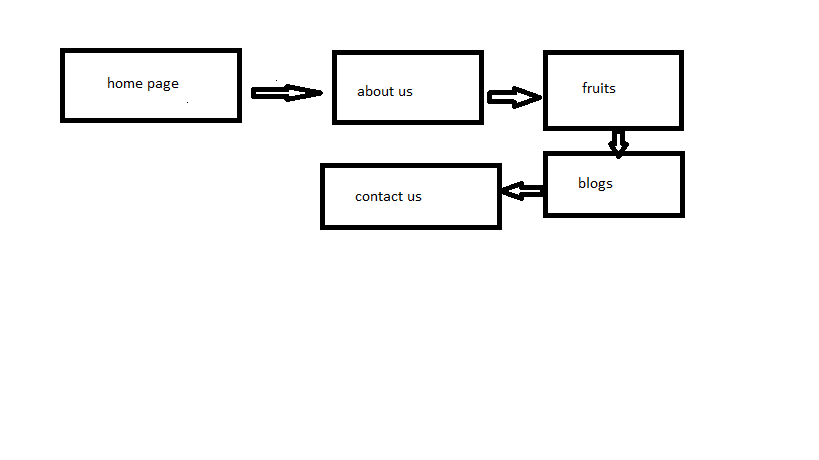
CHAPTER 4

ARCHITECTURE BLOCKS DETAIL WORKING

1.1DATA FLOW DIAGRAM:

DFD, Data flow diagrams are used to graphically represent the flow of data in a business information system. DFD describes the processes that are involved in a system to transfer data from the input to the file storage and reports generation.

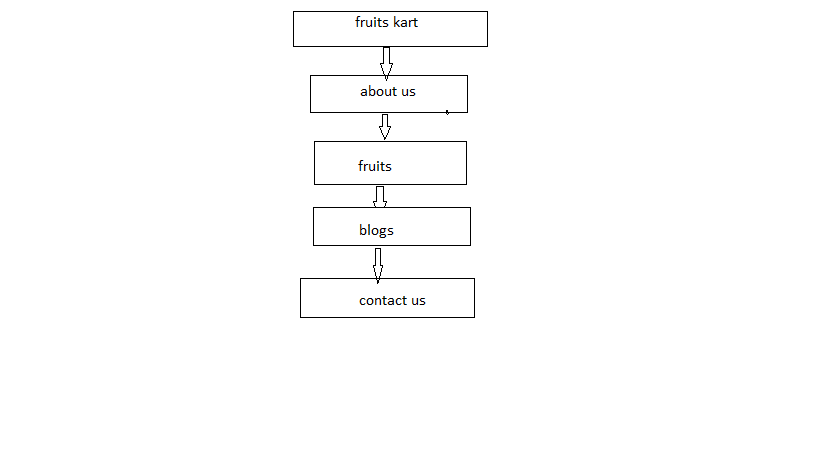
Data flow diagrams can be divided into logical and physical. The logical data flow diagram describes flow of data through a system to perform certain functionality of a business. The physical data flow diagram describes the implementation of the logical data flow.



1.2 E R DIAGRAM:

An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology (IT) system. An ERD uses data modeling techniques that can help define business processes and serve as the foundation for a relational database.

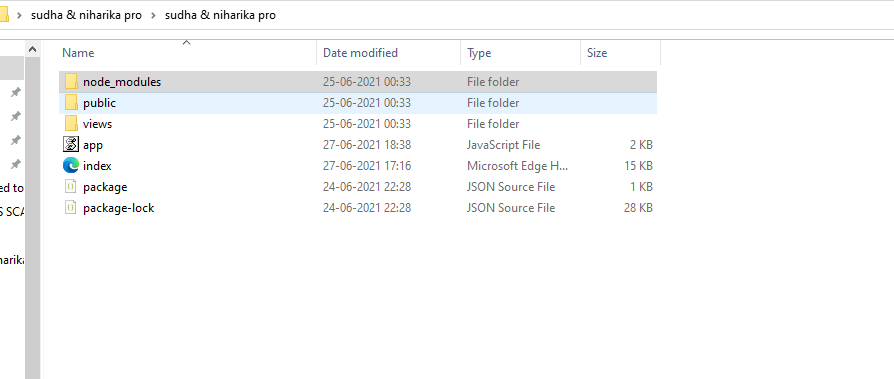
Entity relationship diagrams provide a visual starting point for database design that can also be used to help determine information system requirements throughout an organization. After a Relationaldatabase is rolled out, an ERD can still serve as a reference point, should any debugging or business process re-engineering be needed later.



We follow some steps for made web application:

Step1:

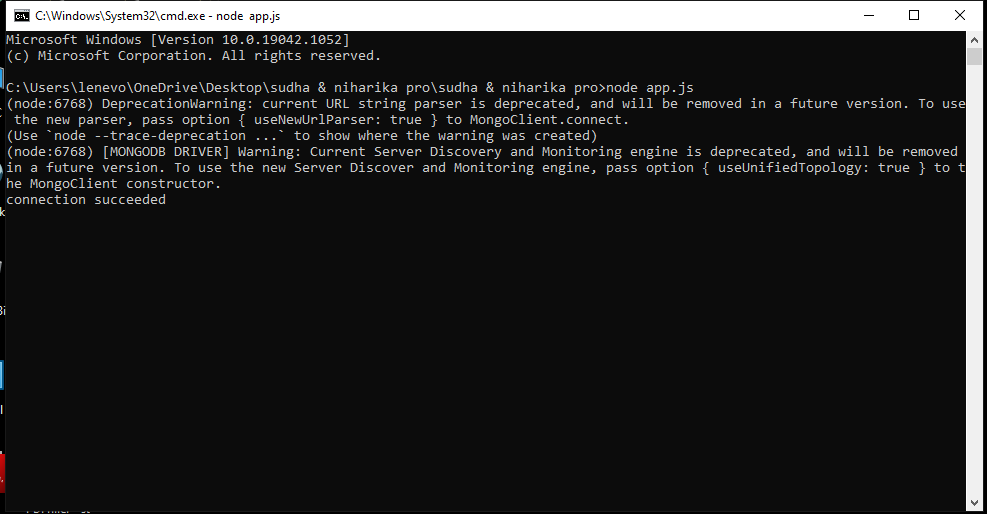
open the folder and write cmd over open it.



step:2

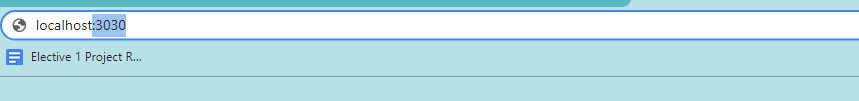
open command prompt and write node app.js and connect with

mongo db .



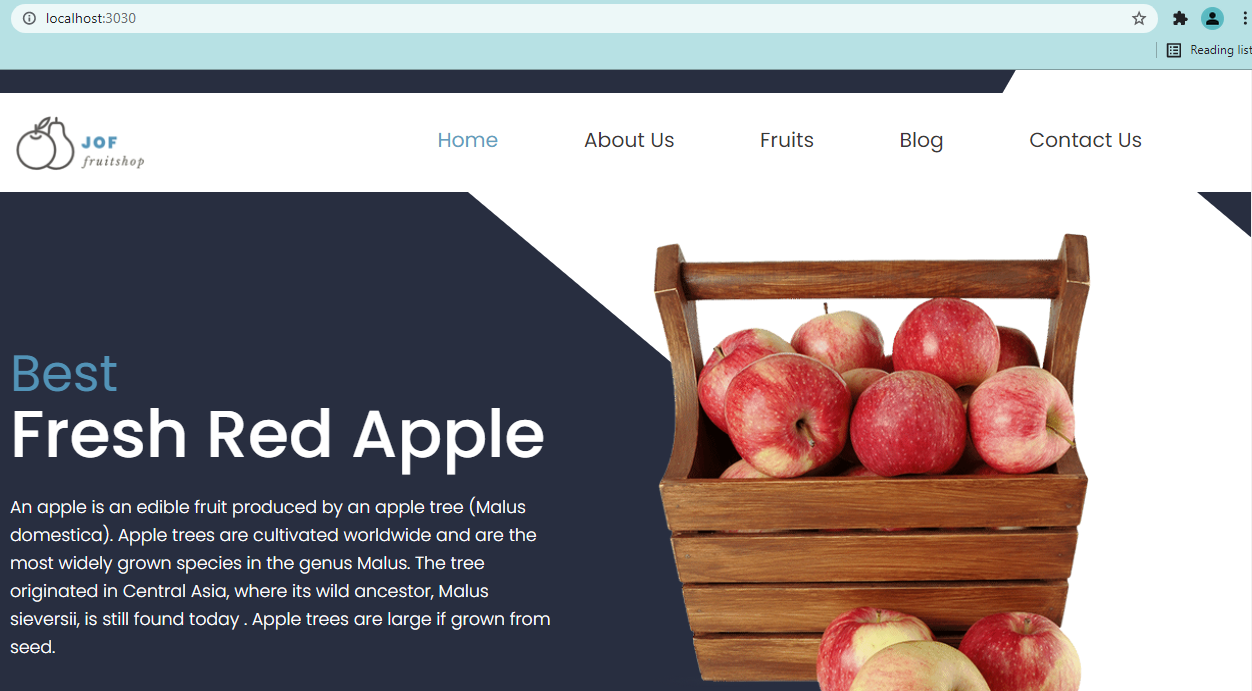
step:3

open chrome and type’’localhost:3030’’ and check it works or not.

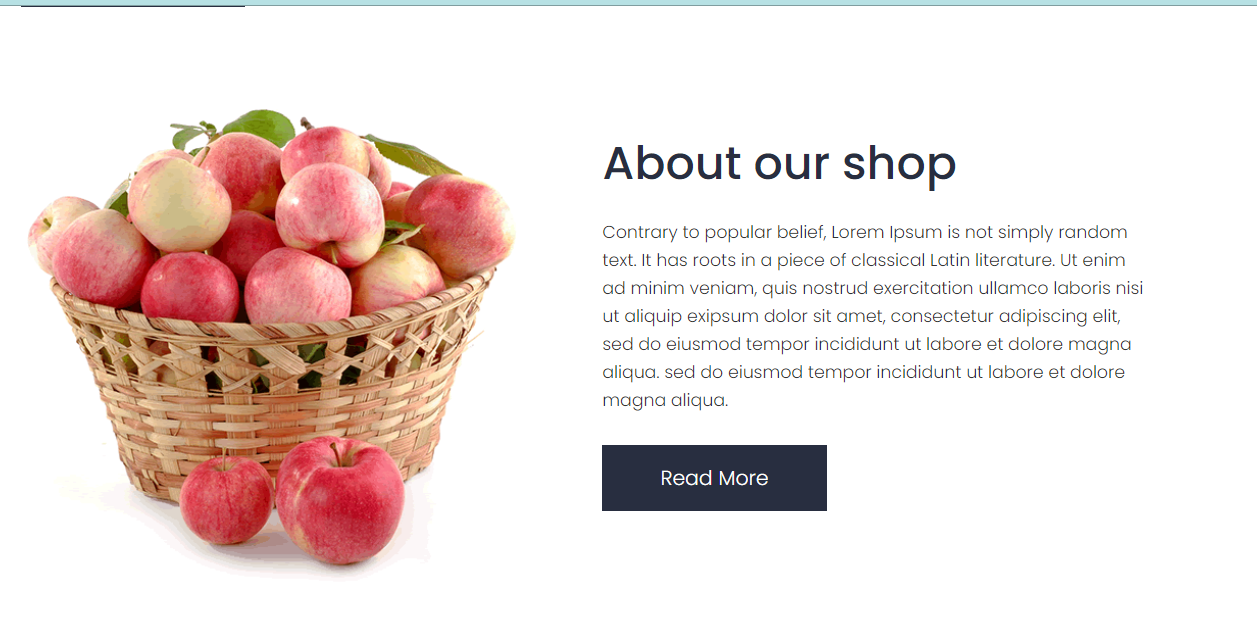


step:4

its works and shows the front page of our website.

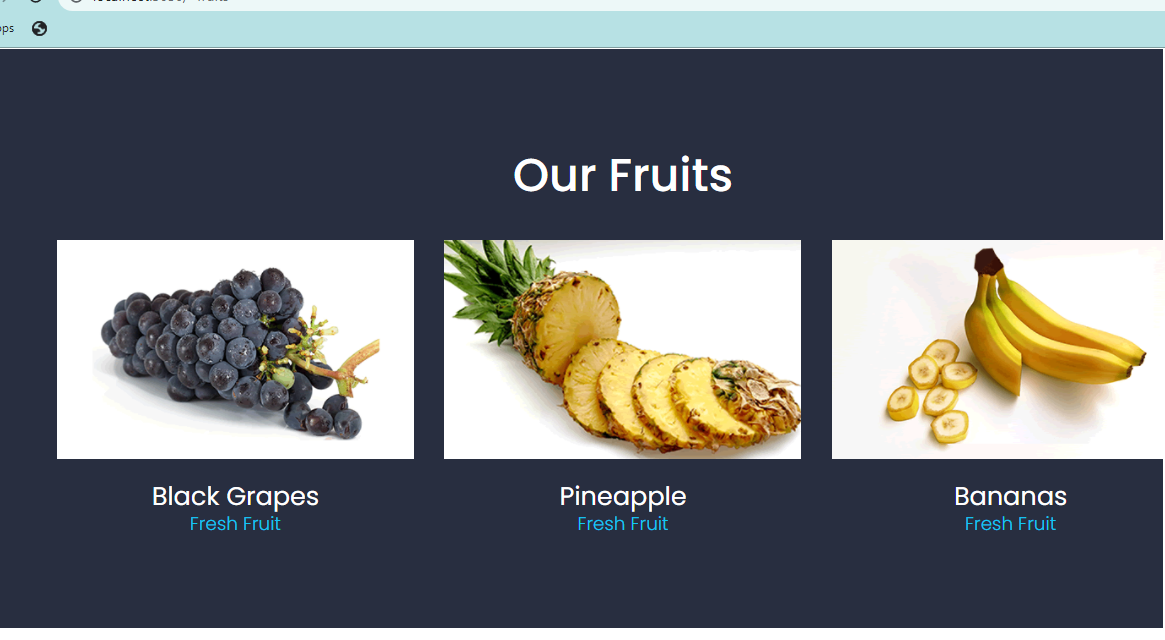


step:5

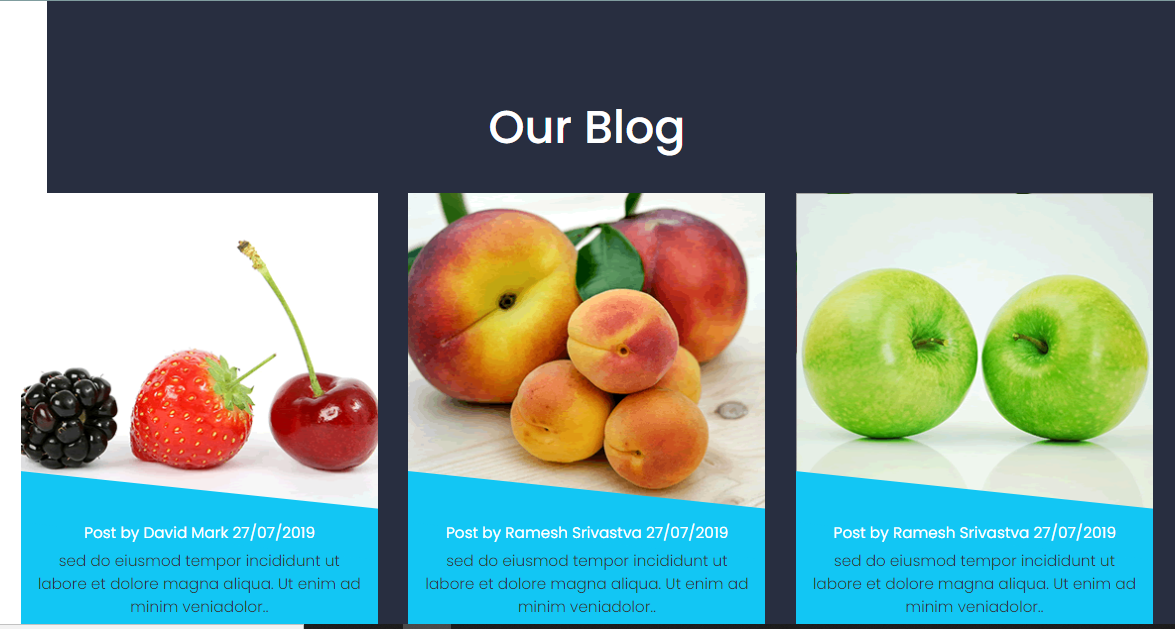
We open our website and check it all function. 

step:6

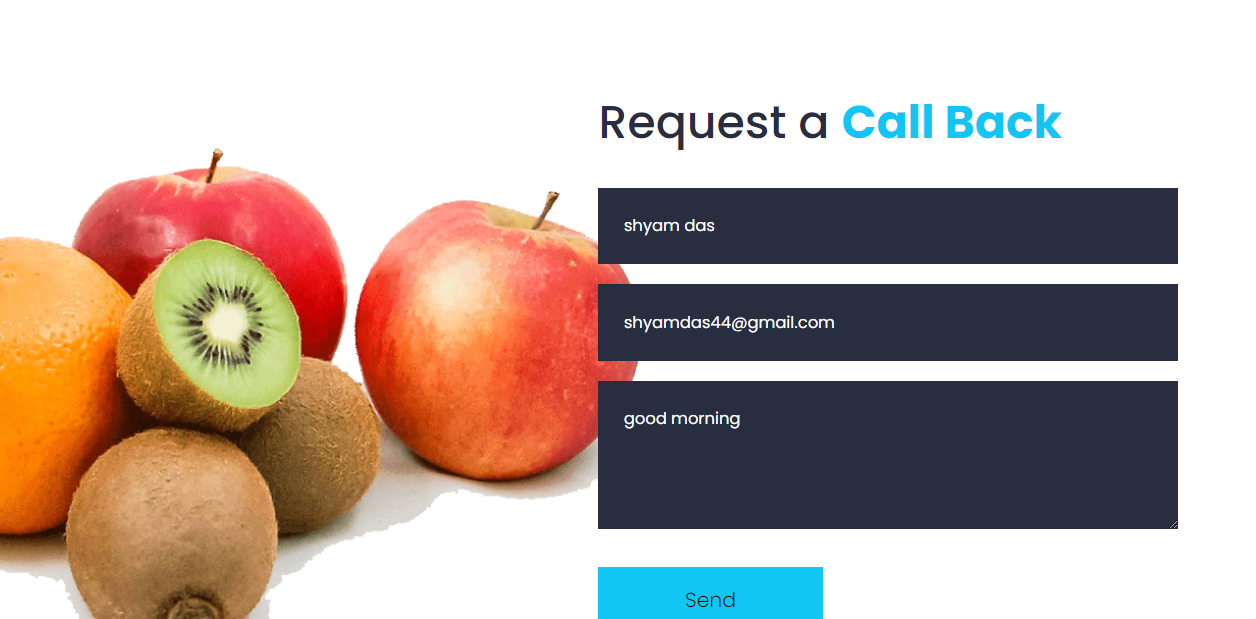
this is website pages



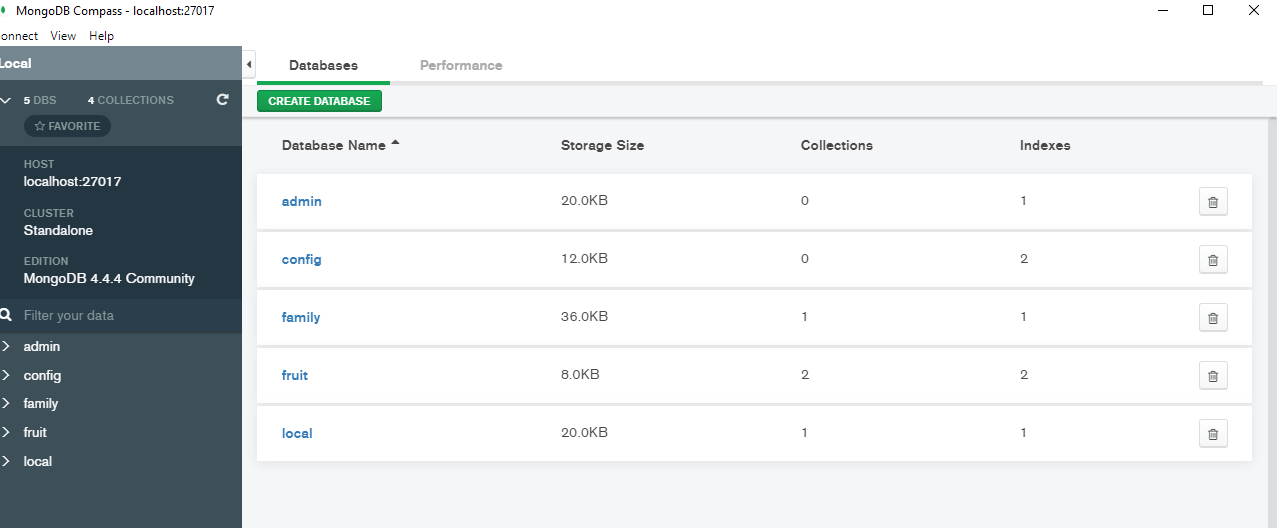
this is blogs pages, user read our blogs



this is contact us pages user write our messages and send it.

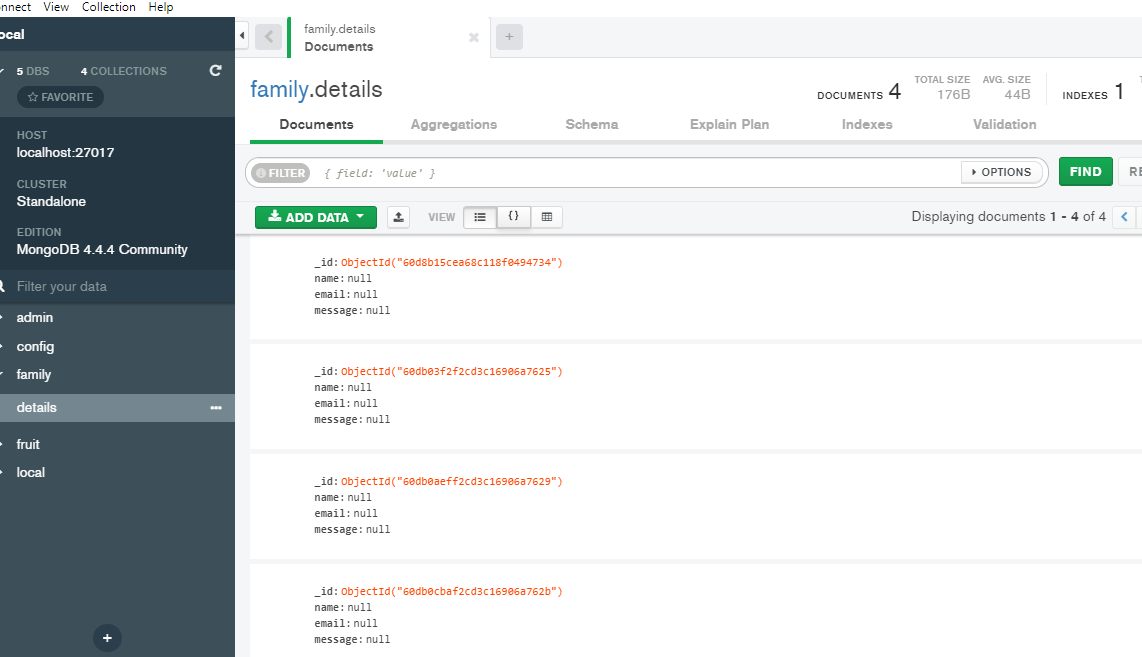


step:7

open mongo db and we check the users messages stored in our database.

the message shows in our mongodb database. messages show then

it rightly worked show error then it some problem.



COde:

index.html:





