Istanbul Okan University

Software Engineering Department

CENG 374 Internet Programming

Assignment 1

(Project Name: Istanbul Explorer)

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Project Aim

Providing information about cultural events corresponding to a specific city or a region. This website allow users to obtain information about events and user feedbacks about events.

Used Technologies

HTML: Used for constructing the structure of pages.

CSS: Used for styling the web pages.

Javascript: Used for adding dynamic elements and interactive components.

Node JS (Server Side): Used for processing data, interacting with database, and generating dynamic content.

MySQL Database: Used for storing event details, event comments and event registration information.

Used Node JS Packages in This Project

Express (Version: 4.18.3): Used for server side structure of the website.

Body Parser (Version: 1.20.2): Used for getting form values from http requests.

EJS (Version: 3.1.9): Used for dynamic webpage rendering.

Nodemailer (Version: 6.9.12): Used for mailing for informing administrator about website contacts and event registration information for users.

Project Github Link

https://github.com/zThyphon/Istanbul-Explorer

Provided Requirements

Fundamental Requirements

All fundamental requirements were satisfied.

Additional Requirements

1) An online registration form is available for users who want to participate in events.
2) Storing user comments in the database and dynamically displaying comments on the event detail page.

Web Page Screenshoots

Responsive Design: This website ensure adaptable webpages to various screen sizes.

Home Page

There is an video background exists in Home Page. User can understand a general view about Istanbul events. Also user can understand main events. User can also navigated other pages via navbar.
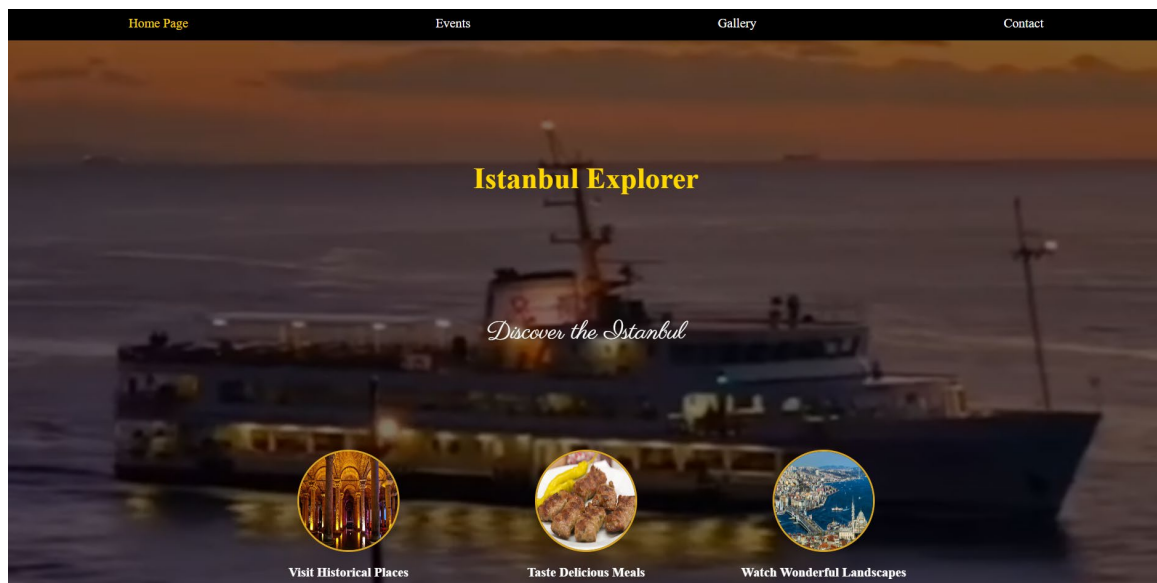

Photo 1: View of Home Page (Large Screens)

Photo 2: View of Home Page (Mobile Device Screen)

Events Page

User can get information about upcoming events in this page. User is navigated event detail page with clicking the event.
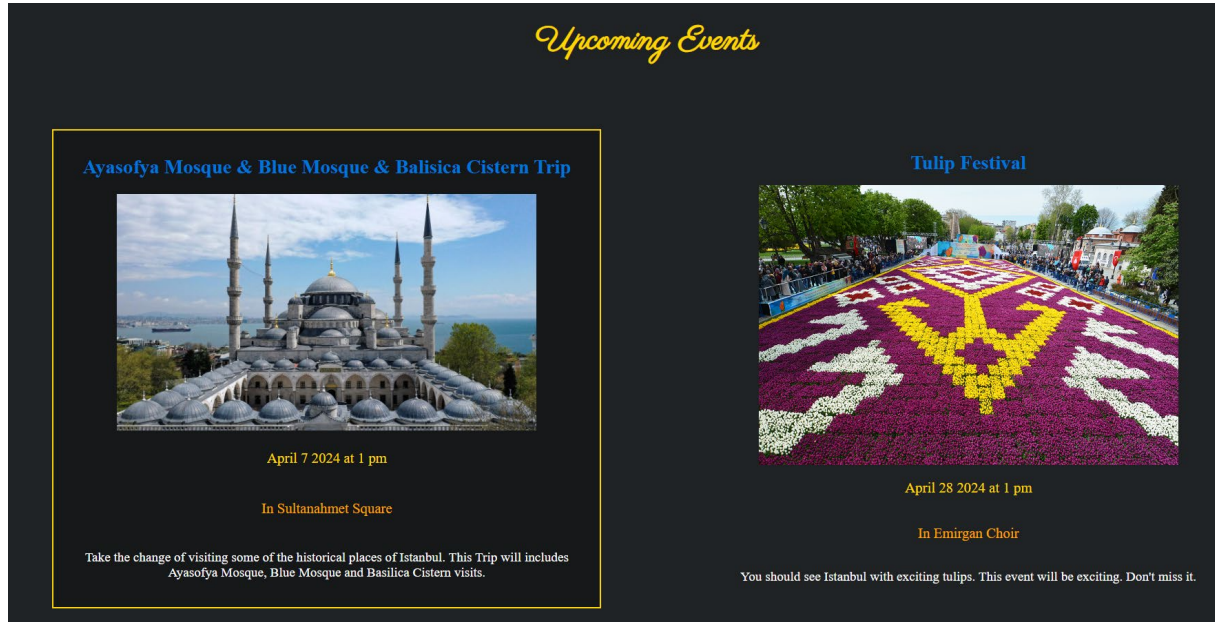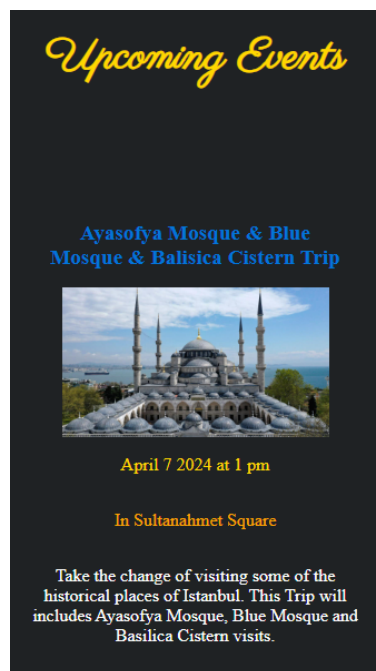

Photo 3: View of Events Page (Large Screens)

Photo 4: View of Events Page (Mobile Device Screen)

Event Details Page

User can get detailed information about the event details and event comments in this page. User can also navigate to register page of the event.

Photo 5: View of Event Details Page (Large Screens)

Photo 6: View of Event Details Page (Mobile Device Screen)

Event Registration Page

User can participate this event with this form. If user enters an invalid (the input validation and invalidation is checked with javascript) value, system will show an alertbox to user. Otherwise user registered to event and mailing service will send event registration email to participant.

Photo 7: View of Event Registration Page (Large Screens)
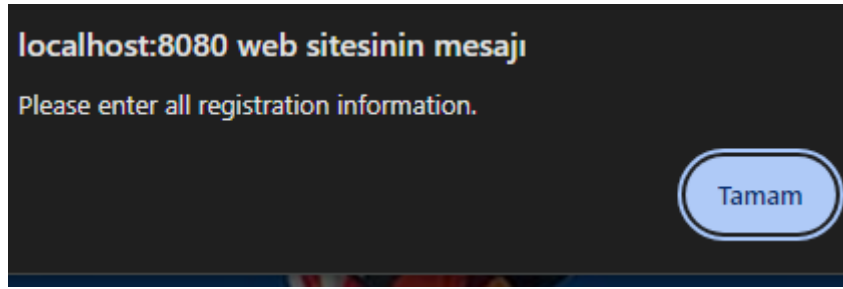
Photo 8: Alertbox (Large Screens)

Photo 9: View of Event Registration Page (Mobile Device Screen)

Photo 10: Event Registration Mail

Gallery Page

User can get information about past events. There is a Carousel is showing past event photos and videos. Also user can switch event photo and videos with manually clicking the buttons.
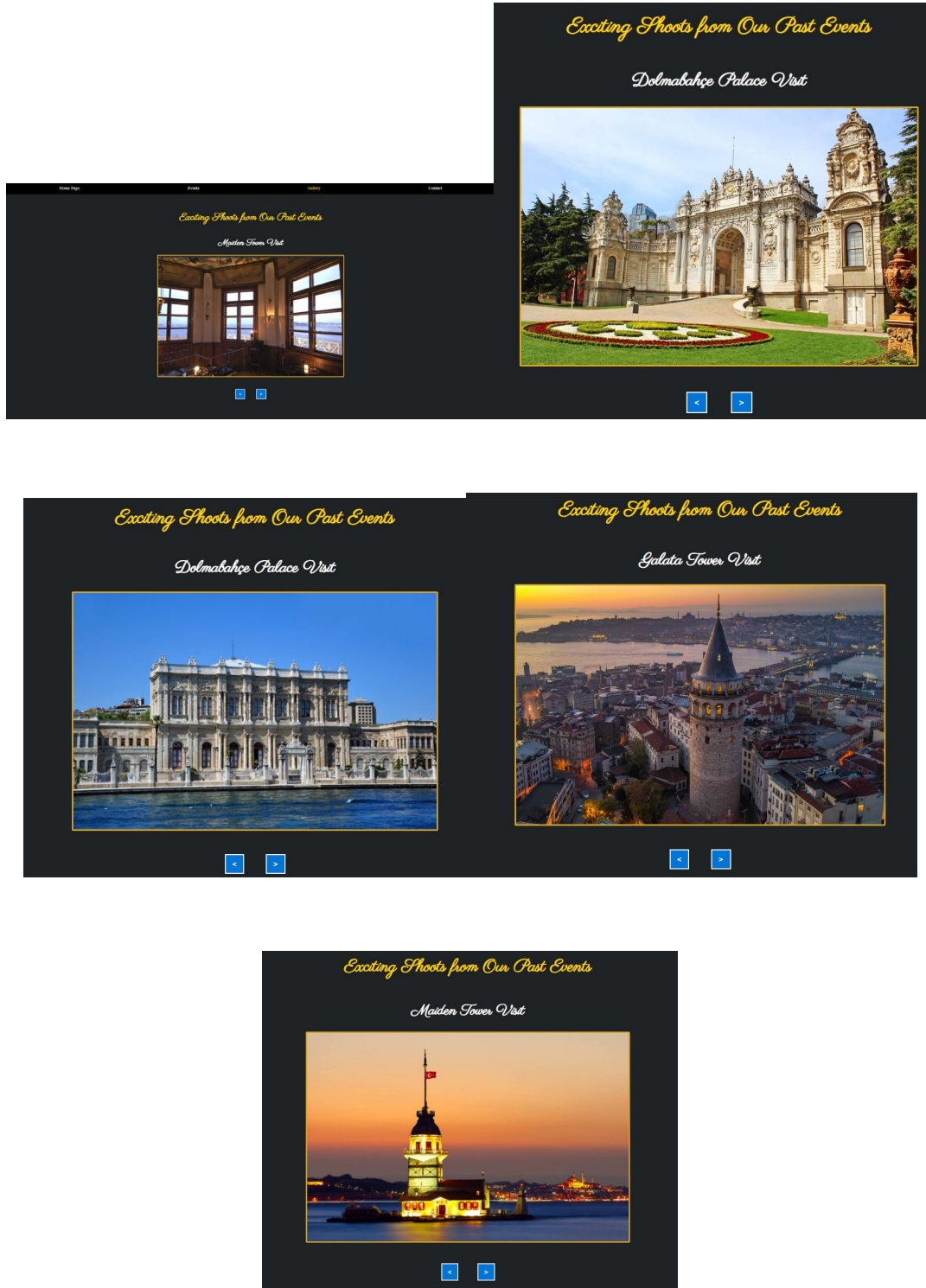
Photo 11: View of Gallery Page (Large Screens)
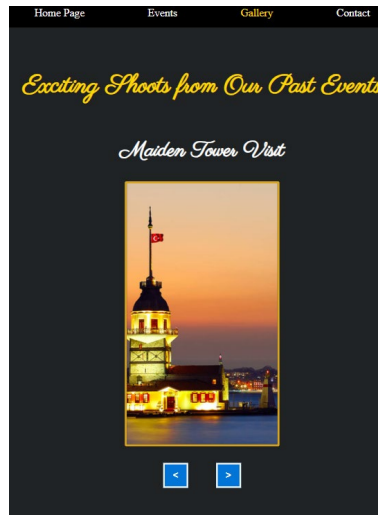
Photo 12: View of Gallery Page (Mobile Device Screen)

Contact Page

User can contact with website administrator via this page. This page also includes social media contact information. If user enters invalid value (validity of input is checked with javascript) website will show and alertbox, otherwise mailing service will send contact information to website admin.

Photo 13: View of Contact Page (Large Screens)
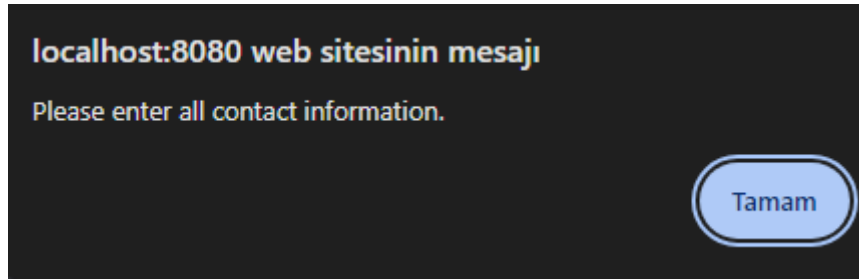
Photo 14: Alertbox (Large Screens)
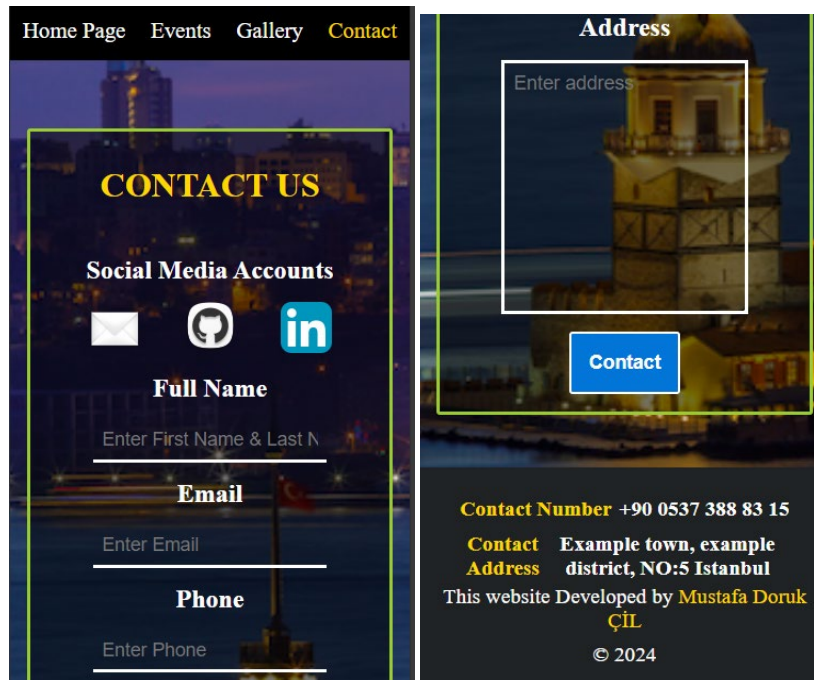
Photo 15: View of Contact Page (Mobile Device Screen)

Database Architecture

There exists 3 table in this project.

Events Table

Events table consists of 6 attributes.

eventID: Primary key of the events table. Attribute type: Integer.

eventHeader: Corresponds to event name. Attribute type: Varchar(100).

eventDateTime: Corresponds to event name and time. Attribute type: Varchar(80).

eventLocation: Corresponds to event location. Attribute type: Varchar(80).

eventDescription: Corresponds to event description. Attribute type: Varchar(255).

eventImage: Corresponds to event photo name. Photos are in the public/images folder. Attribute type: Varchar(100).

| eventID	eventHeader	eventDateTime	eventLocation	eventDescription	eventImage
1	Ayasofya Mosque & Blue Mosque & Balisica Cist…	April 7 2024 at 1 pm	In Sultanahmet Square	Take the change of visiting some of the historic…	SultanahmetMosque.jpg
2	Tulip Festival	April 28 2024 at 1 pm	In Emirgan Choir	You should see Istanbul with exciting tulips. Thi…	TulipFestival1.jpg
3	Historical Sultanahmet Meatball Event	May 19 2024 at 1 pm	In Historical Sultanahmet Meatball Restaurant	Taste delicious Historical Sultanahmet Meatball. …	sultanahmetMeatball.jpg
4	Bosphorus Boat Tour	June 14 2024 at 1 pm	In Eminönü Port	You should see exciting Istanbul landscapes in t…	BosphorusBoatTour.png

Photo 16: Snapshot of Events table

Comments Table

Comments table consists of 5 attributes.

commentID: Primary key of the comments table. Attribute type: Integer.

eventID: Foreign key of the comments table. (Corresponding to primary key of the events table). Attribute type: Integer.

commentAuthor: Corresponds to comment author username. Attribute type: Varchar(100).

commentHeader: Corresponds to comment header. Attribute type: Varchar(100).

commentDescription: Corresponds to comment description. Attribute type: Varchar(255).

commentID	eventID	commentAuthor	commentHeader	commentDescription
1	1	FunnyTraveller	Exciting Places	You should join this tour. The places are very b…
2	1	AdventureSearcher	Cool Place	Balisica Cistern is so cold. It will be very good in …
3	1	PlaceExplorer	Blue Mosque	I am very curious about Blue Mosque.
4	2	CuriousTraveller	I can't wait	I can't wait it will be very wonderful.
5	2	TulipLover	I will Join Again	Each year I am joining this activity. This year ag…
6	3	LocalMealTaster	Unforgottable Taste	I can't forget this taste it is very wonderful.
7	3	PlaceExplorer	You should Taste It	If you are in Istanbul you definitely should tast…
8	4	FunnyTraveller	Wonderful Landscape	You can get amazing photos and videos in this t…
9	4	PlaceExplorer	You should Join this Tour	If you are in Istanbul you definitely should join t…

Photo 17: Snapshot of Comments table

Event Registrations Table

Event registratons table consists of 6 attributes.

registrationID: Primary key of the event registrations table. Attribute type: Integer.

eventID: Foreign key of the event registrations table. (Corresponding to primary key of the events table). Attribute type: Integer.

participantFullName: Corresponds to participant first name and last name. Attribute type: Varchar(150).

participantEmail: Corresponds to participant email. Attribute type: Varchar(100).

participantPhone: Corresponds to participant phone. Attribute type: Varchar(15).

participantAddress: Corresponds to participant address. Attribute type: Varchar(255).

registrationID	eventID	participantFullName	participantEmail	participantPhone	participantAddress
1	1	Funny Traveller	funnytraveller@example.com	123456789	Kartal/Istanbul
2	1	AdventureSearcher	adventuresearcher@gmail.com	987654321	Pendik/Istanbul
3	1	PlaceExplorer	placeexplorer@example.com	123 457 879 123	Adalar/Istanbul
4	1	Mustafa Doruk ÇİL	mustafacil198@gmail.com	0537 388 83 15	Kartal/Istanbul
5	2	Curious Traveller	curioustraveller@example.com	123 321 123 321	Maltepe/Istanbul
6	2	Tulip Lower	tuliplower@example.com	321 123 321 123	Kadıköy/Istanbul
7	2	Mustafa Doruk ÇİL	mustafacil198@gmail.com	0537 388 83 15	Kartal/Istanbul
8	3	LocalMealTaster	localmealtaster@example.com	543 345 543 345	Fatih/Istanbul
9	3	Place Explorer	placeexplorer@example.com	987654321	Mecidiyeköy/Istanbul
10	3	Mustafa Doruk ÇİL	mustafacil198@gmail.com	0537 388 83 15	Kartal/Istanbul
11	4	Funny Traveller	funnytraveller@example.com	678 876 678 876	Beylikdüzü/Istanbul
12	4	Mustafa Doruk ÇİL	mustafacil198@gmail.com	0537 388 83 15	Kartal/Istanbul

Photo 18: Snapshot of Registrations table

Project File Description
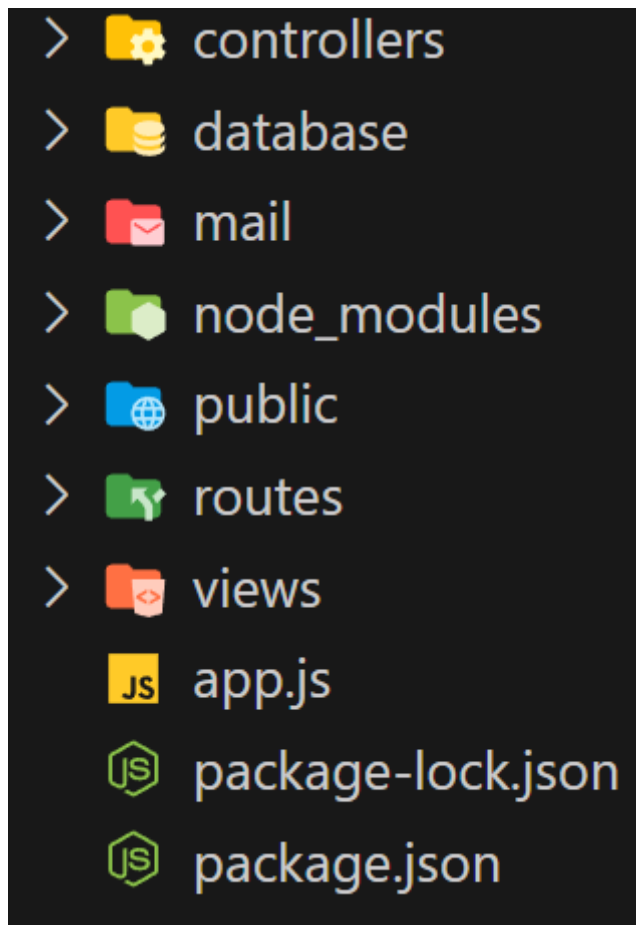
Controllers Folder: Includes middleware function files inside it.

Database Folder: Includes databaseCommands.js file (it includes sql commands) and pool.js file (it provides mysql server connection with mysql2 api).

Mail Folder: Includes sendMail.js file (which send mails with using nodemailer api).

Node_modules Folder: Includes third party package folders. (After downloading the project files from github it requires to use **npm install** command.).

Public Folder: Includes fonts, icons, images, scripts (javacscript files in this folder), styles (css files in this folder) folders.

Routes Folder: Includes routing files. (E.g: domain/ corresponds to index).

Views Folder: Includes HTML files. (In this folder file extensions are in ejs (embedded javascript) format because of dynamic rendering.)

App.js file: Main file of the project.

Package-lock.json file: This file keeps track of the exact version of each installed package and its dependencies.

Package.json File: Includes information about node js project (dependencies, used libraries etc).