Ticket booking system.

A guide by: -
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Group Members

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1. Abstract

We have created “Ticket Booking Management System” project Using Full stack methodology.

In that User can book tickets easily.

In this project we are providing multiple ticket booking services in one website.

Technology used

- **In Front-end Development**
  Front-end we have used HTML, CSS, BOOTSTRAP, REACT JS
- **In Back-end Development**
  Back end we have used Node.js & Express js for API's
- **Database**
  We have used MongoDB for storing API's Data and for storing user's & user booking information we have used MySQL and local storage.

Motivation: -

We have taken this project idea from play store app, we saw there is a lots of Booking app available but it's provide the different booking Service in different web apps also inform of APK format, but we have make this in web format. Anyone can use this app for different ticket booking like (Destination, movie, flight etc.) in one website. We have also take reference from some website article, and YouTube videos.

Problem Statement: -

- This web app is available but for android and ios operating system
- It provide only one Service in their app
- For that you have to install it first.
- Platform dependent

Purpose/objective & goals: -

- Provide the different service's In One website
- Crate app that is independent
- No configuration required
- Anyone can use it

Literature Survey: -

- We take this idea from different booking service website and we analyses that the – they providing us one booking service only in their website
- Couple of YouTube tutorial.
- Some website.

Project Scope & Limitations: -

Scope: -

- Anyone can use easily in their devices easily.
- You can book ticket easily
- No need to install another app for booking any other tickets
- It is helpful for professional works.
- It is also helpful any events and so on.

Limitations:-

- **You should have chrome Browser install in your device**
- **You have to make Sure that your internet connection is on.**

2 . System Analysis

Existing systems: -

This app is available but it is platform dependent. It required Operating System (android/ios/Browsers), also it provides one booking service in website. But we provide other booking service also.

Project perspective & Features: -

- You can book -your ticket
- You can also perform CRUD operations.
- Easy to use any time anywhere.
- Good performance etc.

Stakeholders: -

- Students can use this for booking the trip tickets
- Employees can also booking tickets holidays with families
- Professional work purpose so on.

Requirement Analysis: -

Functional Requirement: -

- Insert booking
- Delete booking
- Stored booking
- Complete /Incomplete booking task management.

Performance Requirement: -

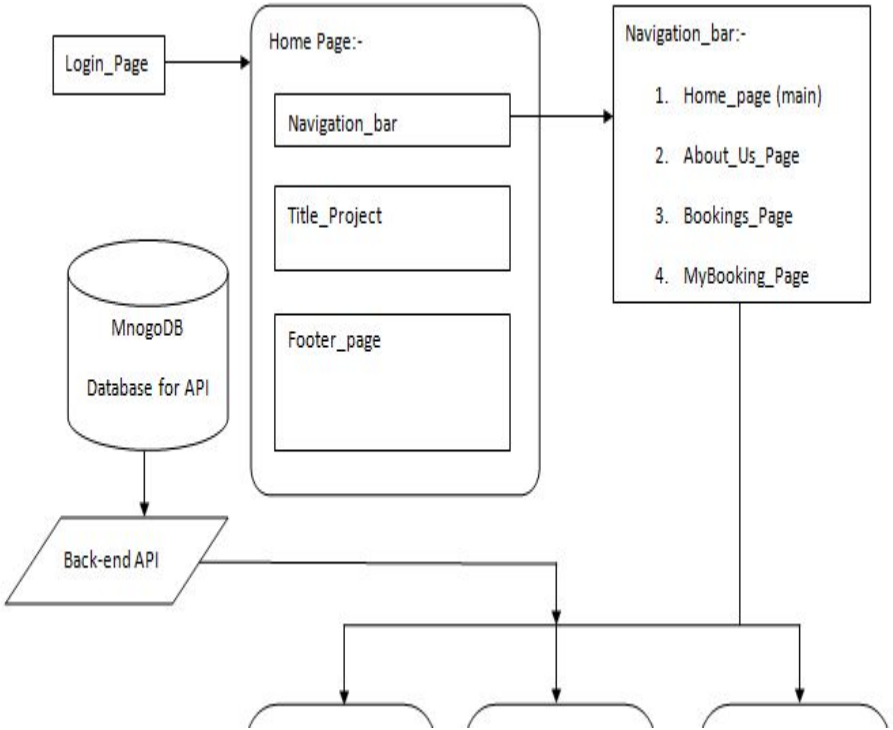
- Updated browser
- Internet connection for better user interface

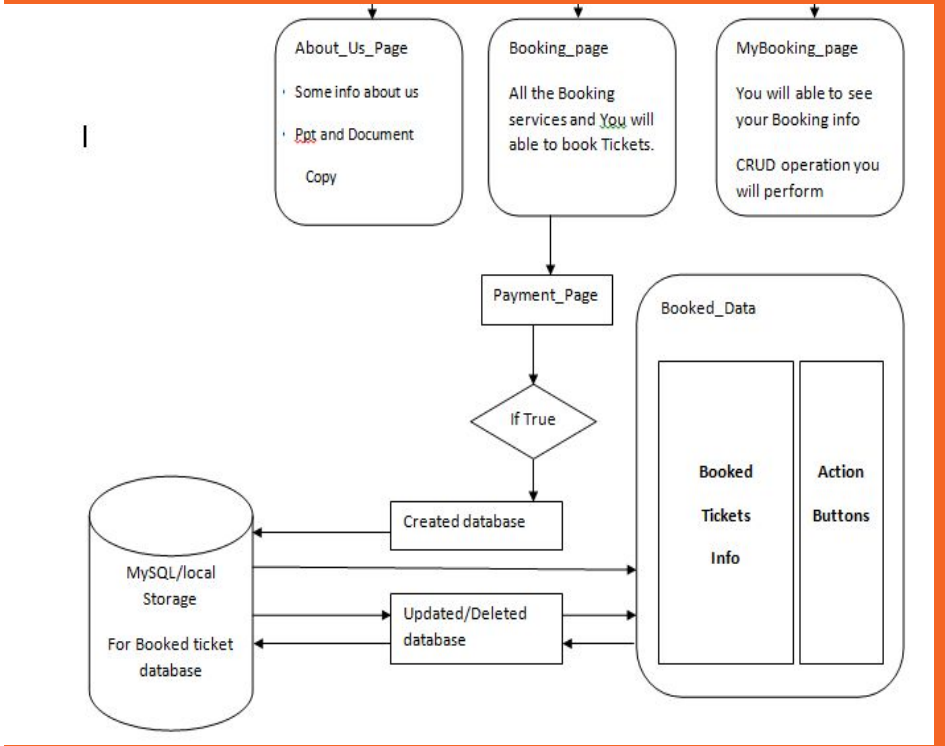
Security Requirement: -

- Sing in to your Google account for safety of data that will store you data in MySQL /local storage
- Your data will be stored in array or json format
- Only you can see your data.

3 . System Design

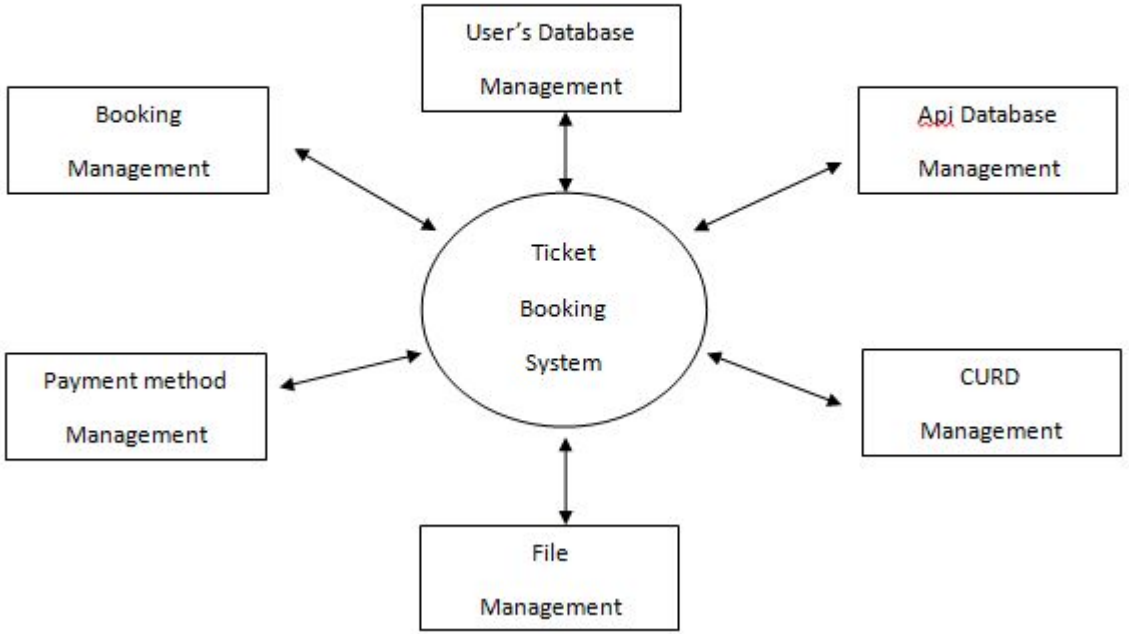
Design constraints: -



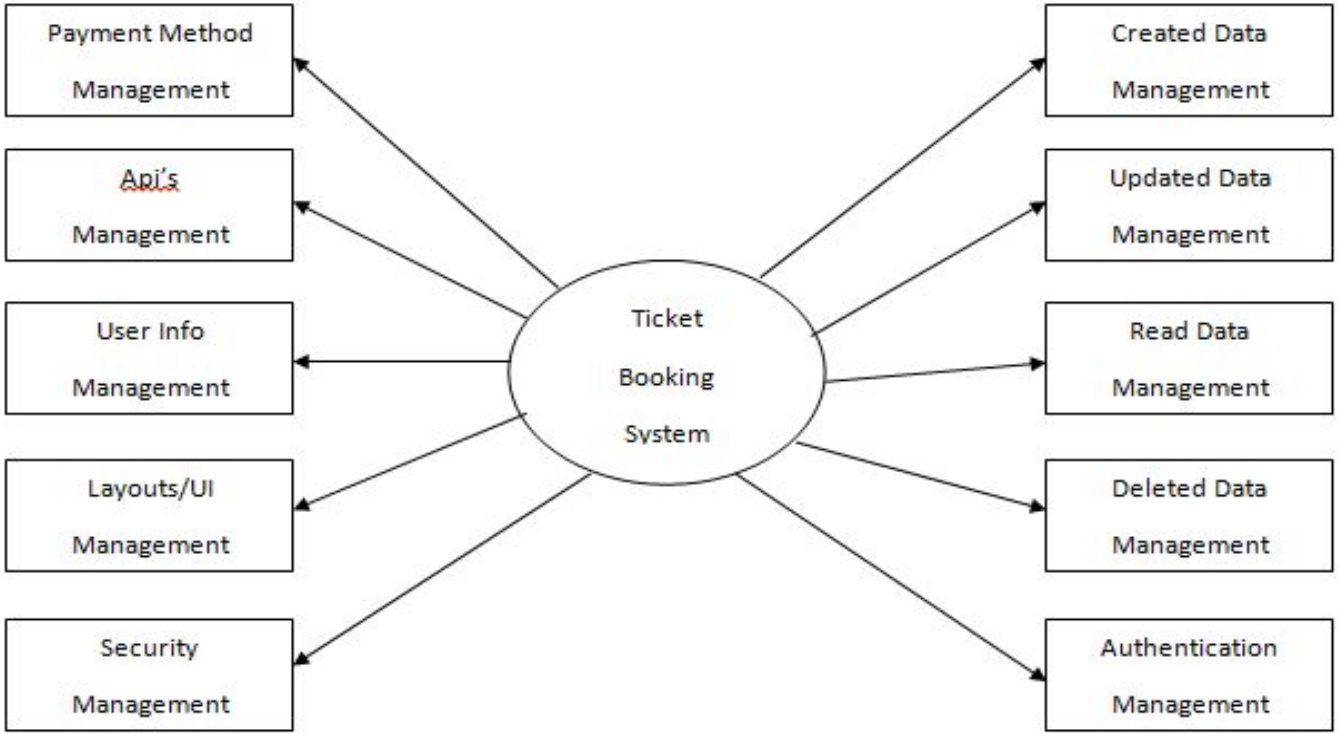


System Model DFD / Data Model: -

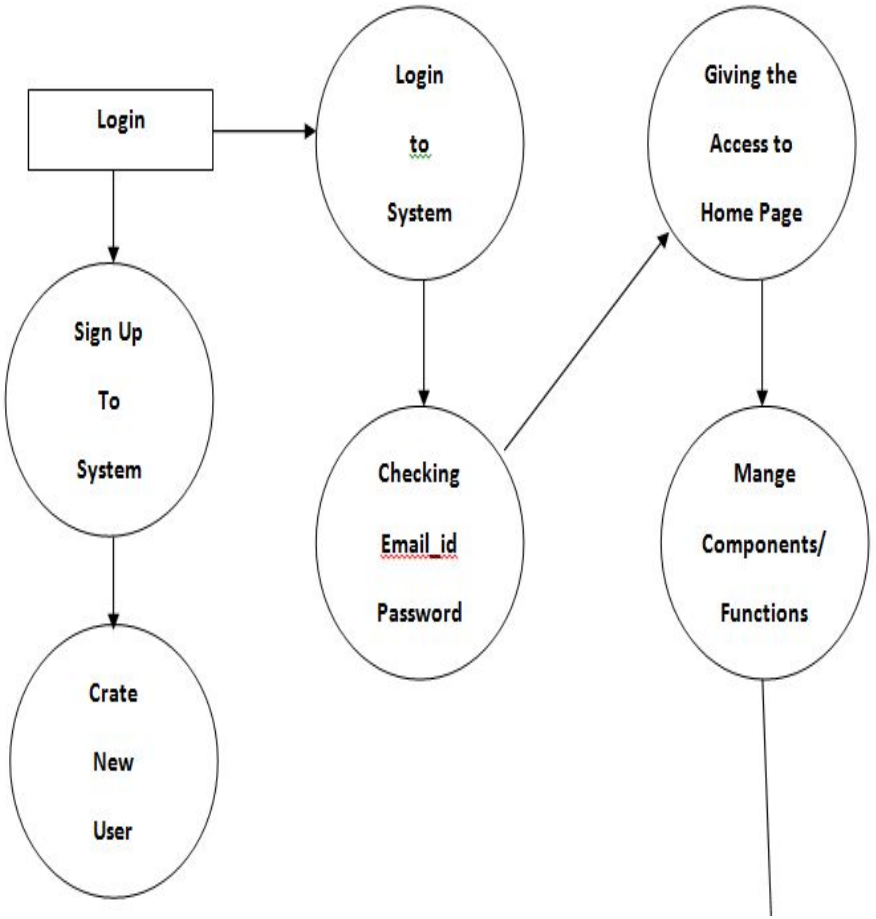
Zero level DFD: -

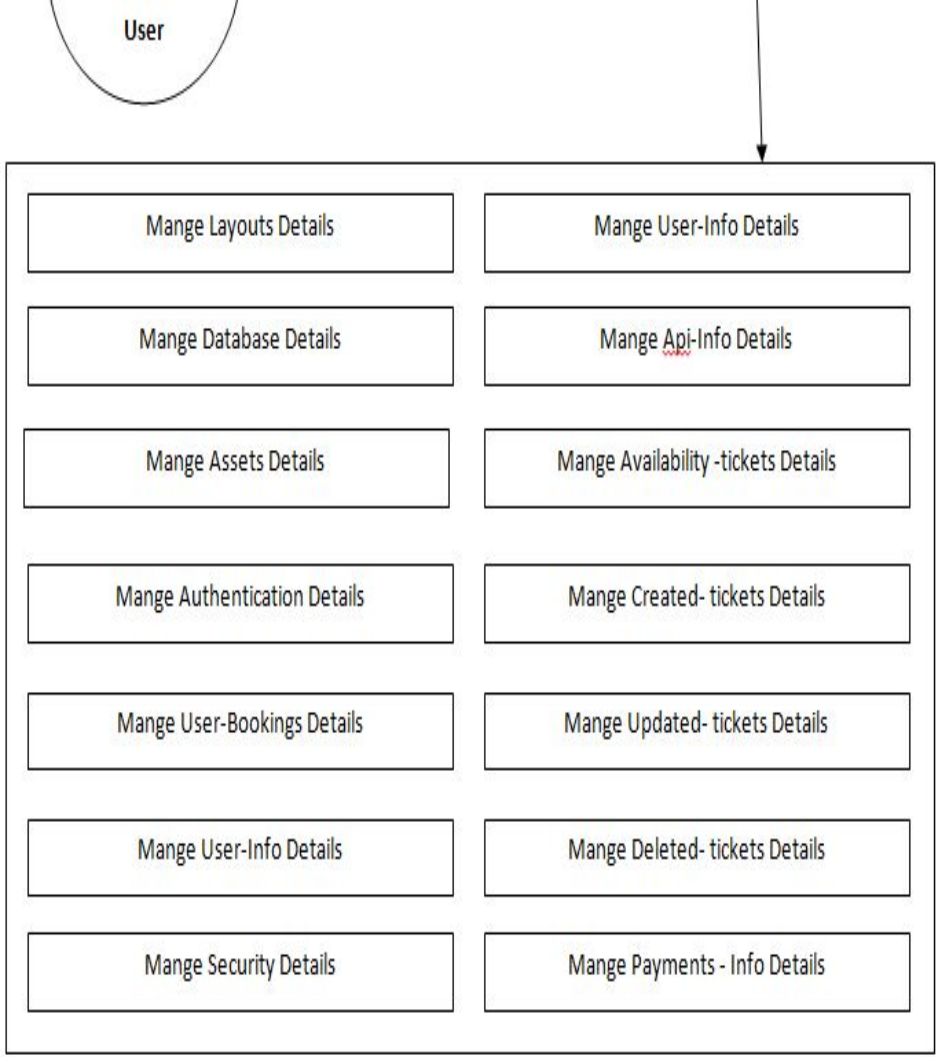


First level DFD: -

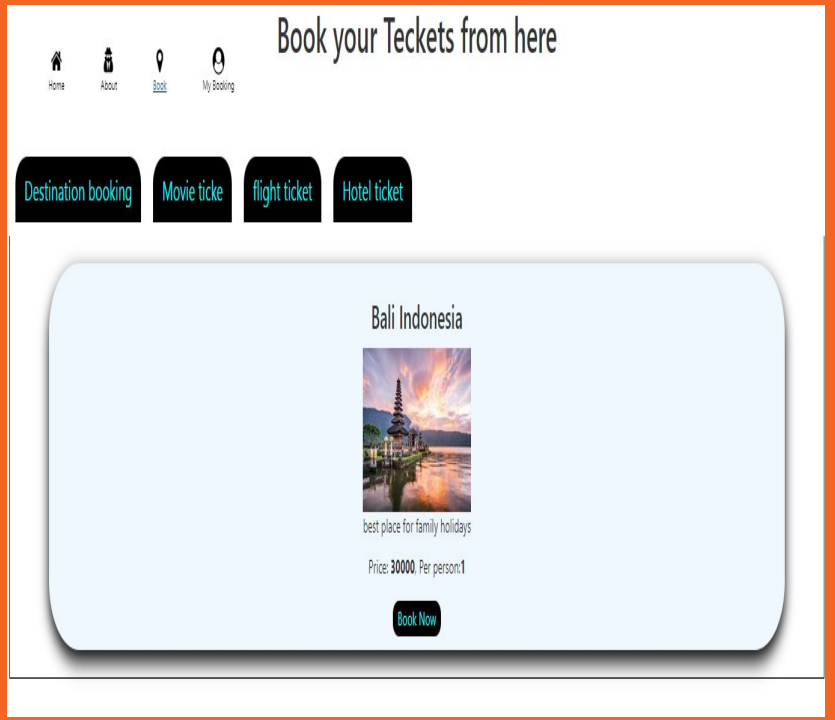


Second level DFD: -





User Interface: -



4 . Implementation Details

Software / Hardware Specifications: -

- ➔ Make sure your internet Connection is on (for better performance)
- ➔ Make sure you inserting the correct details
- ➔ Make sure you are using updated chrome Browser.

Front-end : -

- For web page frontend we are using basic technology's
- For layouts we are using HTML.,CSS
- We are using React js framework for Single Page Application.
- For responsive web we are using Bootstrap in react js
- Some Icons from font awesome icon pack
- Some 3rd party liberty's for fonts., images etc.

Back-end: -

- For Backend we are using Node js For creating CRUD operations
- Api’s also created using Node js Express js

Database: -

- For Database we are using MySql for user info storing
- For storing API database we are using MongoDB
- For authentication We are using firebase.

5 . Testing

Test Plan: -

1. **We are testing the front end**
2. **We are testing back end logics with the help of developer tool of the chrome Browser.**
3. **We are checking. Is the data is stored properly in MySql/local storage.**
4. **Then we are deploying Api using Heroku.**

Problem Identification: -

First Testing: -

- We are unable to Book ticket
- Facing Issue in Api Connection

Second Testing: -

- Unable to store user Booking data in Database

Black box Testing or Data Validation test case: -

Testing Checkpoint:-

- Responsive Web
- Performance is good
- Take less space
- CRUD operation is working

White box Testing or Functional Validation test case: -

- Functionality is good
- Logics and formals ok
- All the components are secreted

Note: - Working On Errors

Results Testing: -

Backend API Links: -

- Api Lnk: -Place-Api

6 . Final Report

Aim: -

To create a Ticket Booking System App using Full stack Development Methodology.

Objective: -

- Understanding of how “Tickets Booking System” works and how to create.
- Working with API and Database management
- Designing – Testing of project Etc.

Description: -

Created the Ticket Booking Management System for Multiple Booking in one website.

Summary: -

We have learned about Ticket Booking Management. In that what is Front end, Back end and Deployment and their Skills Requirements and Roles and Responsibility Their Advantages/Disadvantages/definition. In project we have learned how to crated, Design, Test Deploy the project We have also work with Hypertext Markup Language (HTML), Cascading Style Sheet (CSS), Bootstrap Content Delivery Network (CDN) link, React js For crate- read- delete the data and stored in “MySQL and Local Storage.

Conclusion: -

In this project we have learn how to Create Ticket booking System with Help of Front-end, Back-end & deployment Technology And create/work in group in the particular project.

Future Scope: -

- We are Trying to adding Multiple Ticket Booking Services
- Also working on Advance APIs in node js
- We will also work on Authentication and user data security.
- More Responsive, Good user interface also possible.
- Also Trying to add Secure Payment methods.

Reference: -

We have taken some reference from Medium.com for documentation. And some other resources we have use like youtube video, stack overflow etc.

Thank You