

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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A WTA Project Report for

“HOBBS”

Submitted in partial fulfilment for the award of degree of

**Bachelor of Engineering in
Computer Science & Engineering**

by

**Pragnya Y S
1AT18CS077**

**Sonali Sakshi
1AT18CS105**

**Anchita
1AT18CS125**

Under the Guidance of
Prof. REKHA S
Assistant Professor, Dept. of
CS&E, AIT



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ATRIA INSTITUTE OF TECHNOLOGY
Department of Computer Science & Engineering
BANGALORE-560024

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CERTIFICATE

Certified that the project work entitled "**HOBBS**", carried out by **Pragnya Y S (1AT18CS077)**, **Sonali Sakshi(1AT18CS105)**, **Anchita(1AT18CS125)**, bonafide students of **Atria Institute of Technology**, in partial fulfilment for the award of Bachelor of Engineering in **Computer Science & Engineering of Visvesvaraya Technological University, Belgaum** during the academic year 2020-2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies requirements in respect of project work prescribed for the said degree.

Signature of Guide

Prof. Rekha S

Signature of HOD

Dr. Aishwarya P

Signature of Principal

Dr. T N Sreenivasa

Name of the Examiners

Signature with date

1. _____

2. _____

Declaration

Pragnya Y S, Sonali Sakshi, Anchita , students of VI semester B.E in Computer Science & Engineering at Atria Institute of Technology, hereby declare that the mini project work entitled “**HOBBS**” has been carried out under the supervision of **Prof. Rekha S**, Assistant Professor, Dept. of CS&E, **Atria Institute of Technology** and submitted in partial fulfilment of the course requirements for the award of degree in B.E in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi during the year 2020-2021. We further declare that the report has not been submitted to any other University for the award of any other degree.

Place: Bangalore

**Pragnya YS
(1AT18CS077)**

Date: 17-08-2021

**Sonali Sakshi
(1AT18CS105)**

**Anchita
(1AT18CS125)**

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Abstract

HOBBS website is a mini project which is quite similar to reddit or any social networking platform etc. This mini project includes features like **Login, Register, Like or Dislike and Explore**

The project is built using the following languages

- **Firebase** - Database management
- **JavaScript** - Website Management

The project also makes use of the following tools

- **HTML, CSS**

The data flow in the project is as follows, The user must first login/register to create an account. The user can then browse through various topics or areas in the **Hobbies page** and choose any. After this, the user can get more information about their selected topic and give their review by liking or disliking it.

This project allows users to explore different hobbies and look more into their respective interests and passions.

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Introduction

AN INTRODUCTION TO THE TOOLS AND CONCEPTS

HTML

The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.



CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.



JavaScript

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions.



Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web. Over 97% of websites use it client-side for web page behavior, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on the user's device.

Firebase

Firebase is a platform developed by Google for creating mobile and web applications. It was originally an independent company founded in 2011. In 2014, Google acquired the platform and it is now their flagship offering for app development.



Firebase Authentication makes authentication easy for end users and developers. It allows you to focus on your users, and not the sign-in infrastructure to support them.

The Firebase Realtime Database is a cloud-hosted database. Data is stored as JSON and synchronized in realtime to every connected client. When you build cross-platform apps with our iOS, Android, and JavaScript SDKs, all of your clients share one Realtime Database instance and automatically receive updates with the newest data.

Bootstrap

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.



Overview

The project is related to social networking Platform

- The main objective of this project is to give people an online platform to explore their hobbies.
- This project helps people in discovering more about themselves and explore more options according to their personalities especially during times like the COVID-19 pandemic.
- The user can look through various options and incorporate new hobbies into their lifestyles.

The project is developed using JS, HTML, CSS, Bootstrap and Firebase.

Requirements Analysis

As the project is hosted on an online server, the requirements to use and see the projects are

- A browser
- A working internet connection

To see the inner workings of this project, the requirements are,

SOFTWARE

- HTML
- JS
- CSS
- Firebase
- Bootstrap

HARDWARE

- Intel pentium or higher
- RAM 512mb or higher
- HDD 128GB or higher

Scope Of Project

- This project is for developing a social networking website.
- This project can later be upgraded such that users can upload pictures and comment on it i.e share their reviews and personal opinions with the world.
- Since the project is going to be hosted on a server, it can be used by everyone who has access to internet

Implementation

Home Page Code

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>HOBBS | Home</title>
    <style>
      @import
url("https://fonts.googleapis.com/css2?family=Dancing+Script&display=
swap");
    </style>
    <link
      rel="stylesheet"
      href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.m
in.css"
      integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTs
z/K6vbdEjh4u"
      crossorigin="anonymous"
    />
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <div class="container">
      <!--  -->
      <div class="overlay">
        <button onclick="loginBtn()">
            
  </button>  
  <div class="text">HOBBS</div>  
  </div>  
</div>  
  
<div id="registrationModal" class="mymodal">  
  <div id="msgAndButtons" class="modalcontent">  
    <span class="close" id="regClose">&times;</span>  
    <h2 id="heading">SIGN UP</h2>  
    <div class="form_details_reg">  
      <label class="labels">User ID:</label>  
      <input  
          type="text"  
          name=""  
          id="userID"  
          placeholder="Enter your User ID"  
          class="input_regs"  
      />  
    </div>  
  
    <div class="form_details_reg">  
      <label class="labels">Create Your Password:</label>  
      <input  
          type="password"  
          name=""  
          id="signup_pw"  
          placeholder="Enter your password"  
          class="input_regs"  
          required  
      />  
    </div>  
  
    <div class="form_details_reg">  
      <label class="labels">Confirm Password:</label>  
      <input  
          type="password"  
          name=""
```

```
        id="signup_pw_confirm"
        placeholder="Confirm your password"
        class="input_regs"
        required
    />
</div>

<button id="signin_btn" onclick="signup () ">REGISTER</button>
</div>
</div>

<div id="loginModal" class="mymodal">
    <div id="msgAndButtons" class="modalcontent">
        <span class="close" id="logClose">&times;</span>
        <h2 id="heading">LOGIN</h2>

        <div class="form_details_reg">
            <label class="labels">User ID:</label>
            <input
                type="text"
                name=""
                id="login(userID"
                placeholder="Enter your User ID"
                class="input_regs"
            />
        </div>

        <div class="form_details_reg">
            <label class="labels">Password:</label>
            <input
                type="password"
                name=""
                id="login_pw"
                placeholder="Enter your password"
                class="input_regs"
                required
            />
        </div>

        <button id="signin_btn" onclick="login () ">LOGIN</button>
```

```

<div class="form_details_reg">
    <label class="labels">New here?</label>
    <button onclick="registerBtn()">Create Account</button>
</div>
</div>
</div>

<div id="verificationModal" class="mymodal">
    <div id="msgAndButtons" class="modalcontent">
        <h2 id="heading">VERIFICATION</h2>
        <button id="signin_btn" onclick="sendemail()">SEND
E-mail</button>
        <label class="labels">
            Once you have verified, please refresh the page</label>
        <br>
    </div>
</div>

```

Sample Hobby page Code [Photo]

```

<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
        <title>HOBBS | Photo</title>
        <style>
            @import
url("https://fonts.googleapis.com/css2?family=BioRhyme:wght@300&display=swap");
        </style>
        <style>
            @import
url("https://fonts.googleapis.com/css2?family=Arizona&display=swap")
;
        </style>
    
```

```
<link
  rel="stylesheet"
  href="https://cdnjs.cloudflare.com/ajax/libs/animate.css/4.1.1/animate.min.css"
/>
<style>
  @import
url ("https://fonts.googleapis.com/css2?family=Dancing+Script&display=swap");
</style>
<link rel="stylesheet" href="style.css" />
</head>
<body class="body_photo">
  <h2>Capturing    The    Moment</h2>
  <div class="layout">
    <div class="trendPhoto">
      <div class="overlayPhoto">
        <div class="textPhoto">
          Wanna see more from this photographer?
          <a href="https://www.instagram.com/aniruddh.g/">Click
here</a>
        </div>
      </div>
    </div>
    <div class="content">
      <form id="likes">
        <div class="like_dislike">
          <button class="like_btn" onclick="like()">❤</button>
          <div class="no_likes"><p class="display_likes"></p></div>
          <button class="dislike_btn"
onclick="dislike()">💔</button>
          <div class="no_dislikes"><p
class="display_dislikes"></p></div>
        </div>
      </form>
      <div class="description">
        Look into the eyes of the beast! Photographed using the
Nikon D500
        with Sigma Sport at Bandipur, Karnataka
      </div>
    </div>
  </div>
</body>
```

```
<p style="font-style: italic">By : Aniruddh G S</p>
</div>
</div>
</div>
</body>

<!-- Code for inserting data into database -->
<script
src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8
abTE1Pi6jizo"
crossorigin="anonymous"></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFF/nJGzIxFDsf
4x0xIM+B07jRM"
crossorigin="anonymous"></script>
<script
src="https://www.gstatic.com/firebasejs/7.6.1.firebaseio-app.js"></script>
<script
src="https://www.gstatic.com/firebasejs/7.6.1.firebaseio-database.js"></script>
<script
src="https://www.gstatic.com/firebasejs/4.8.1.firebaseio.js"></script>

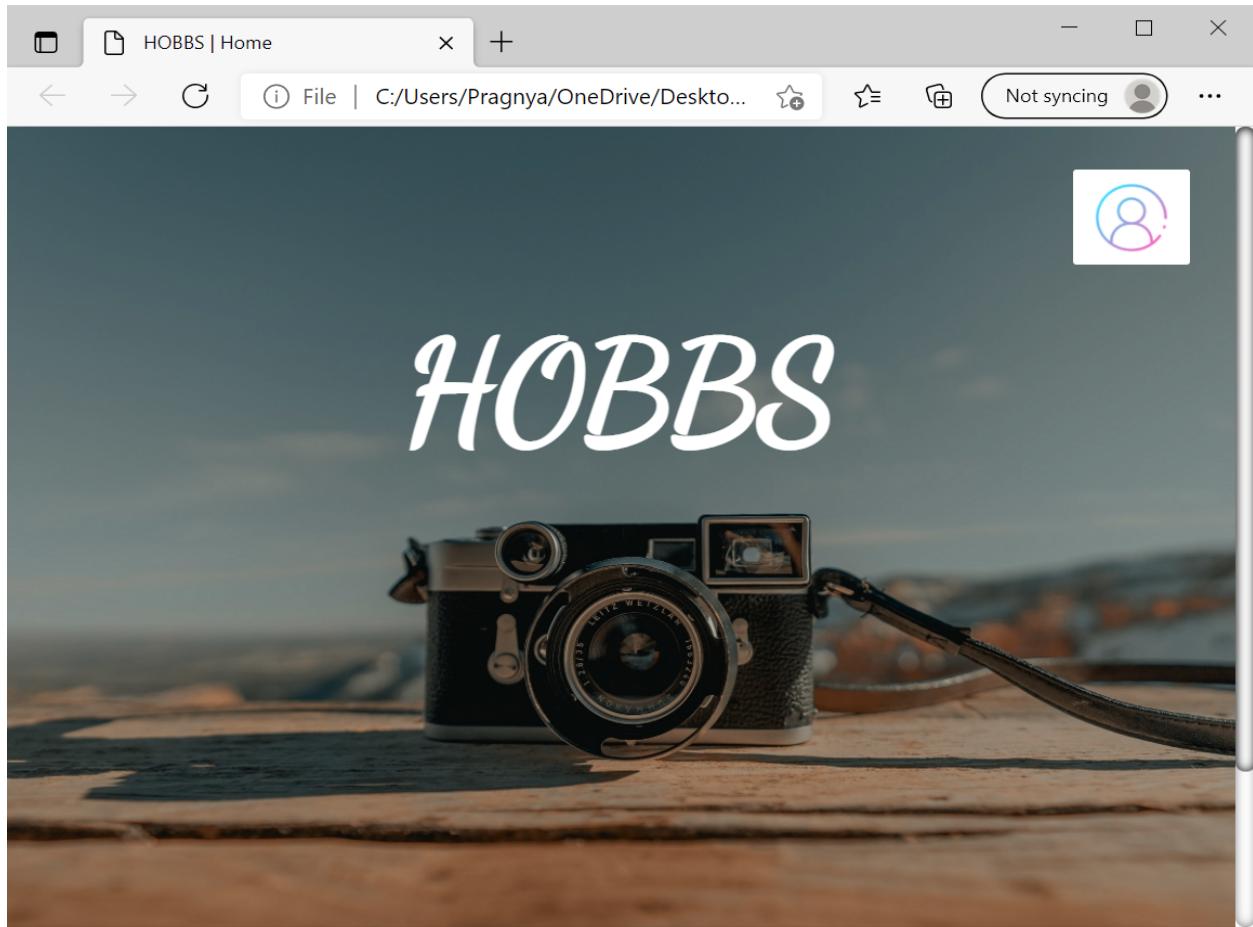
<!-- Package responsible for retrieving data -->
<script
src="https://www.gstatic.com/firebasejs/4.8.1.firebaseio-app.js"></script>
<script
src="https://www.gstatic.com/firebasejs/4.8.1.firebaseio-database.js"></script>
```

```
<script src="firebaseConfig.js"></script>
<script type="text/javascript" src="photo.js"></script>
</html>
```

Screenshots

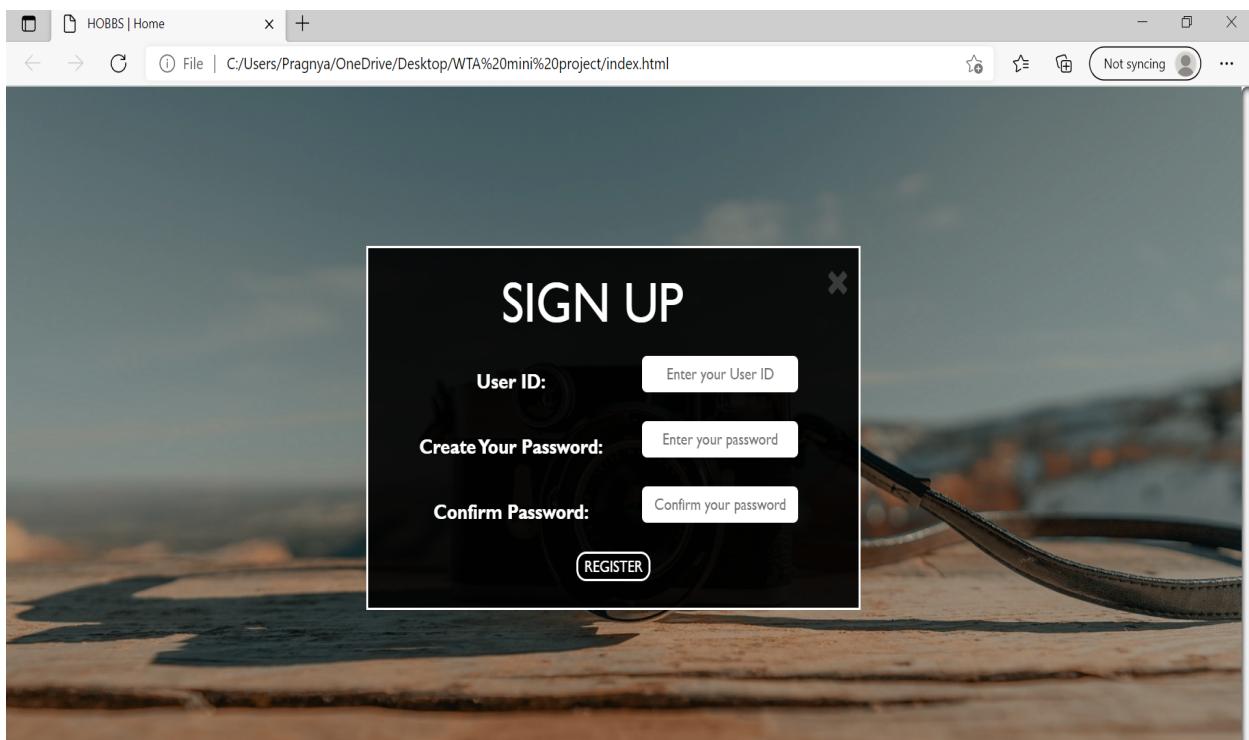
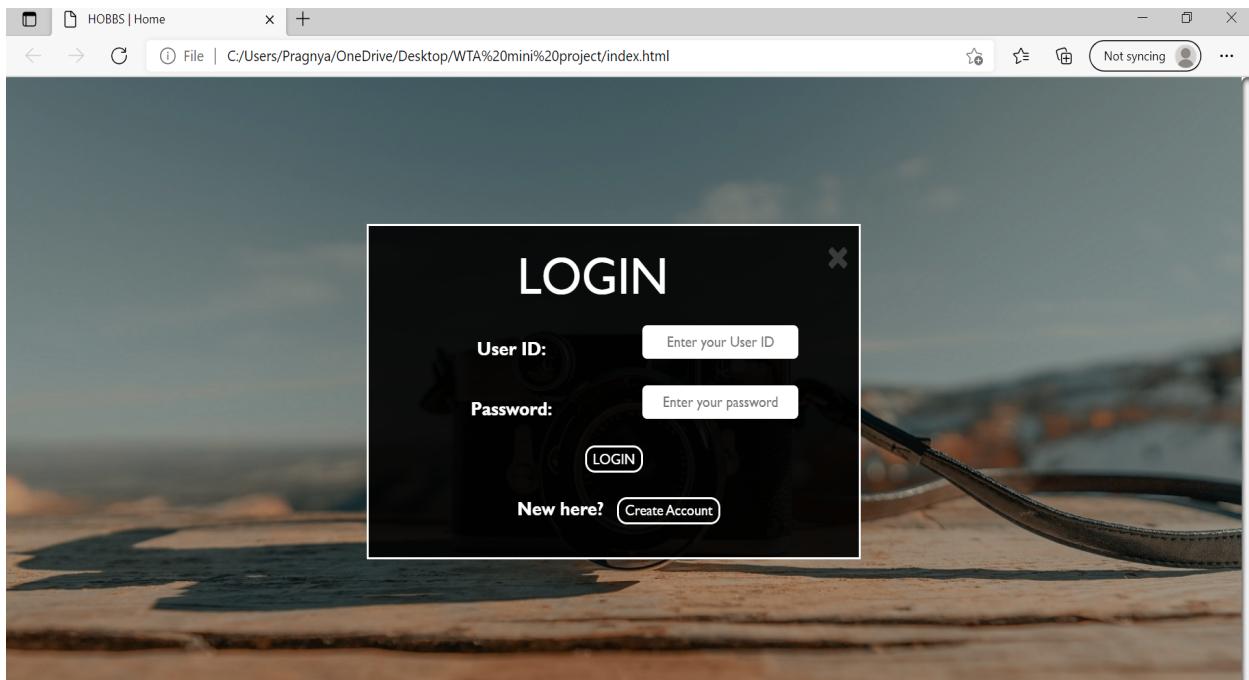
Index Page

This is the homepage of the project, where we can see the artworks.



Profile Page

This is the profile page of the project, where users can login or register.



Hobbies quiz Page (Customer after login)

Here we can see the 6 topics for hobbies

The screenshot shows a web browser window titled "HOBBS | Home". The address bar indicates the file is located at "C:/Users/Pragnya/OneDrive/Desktop/WTA%20mini%20project/home.html". Below the title, there are six circular images arranged in two rows of three, each representing a hobby topic:

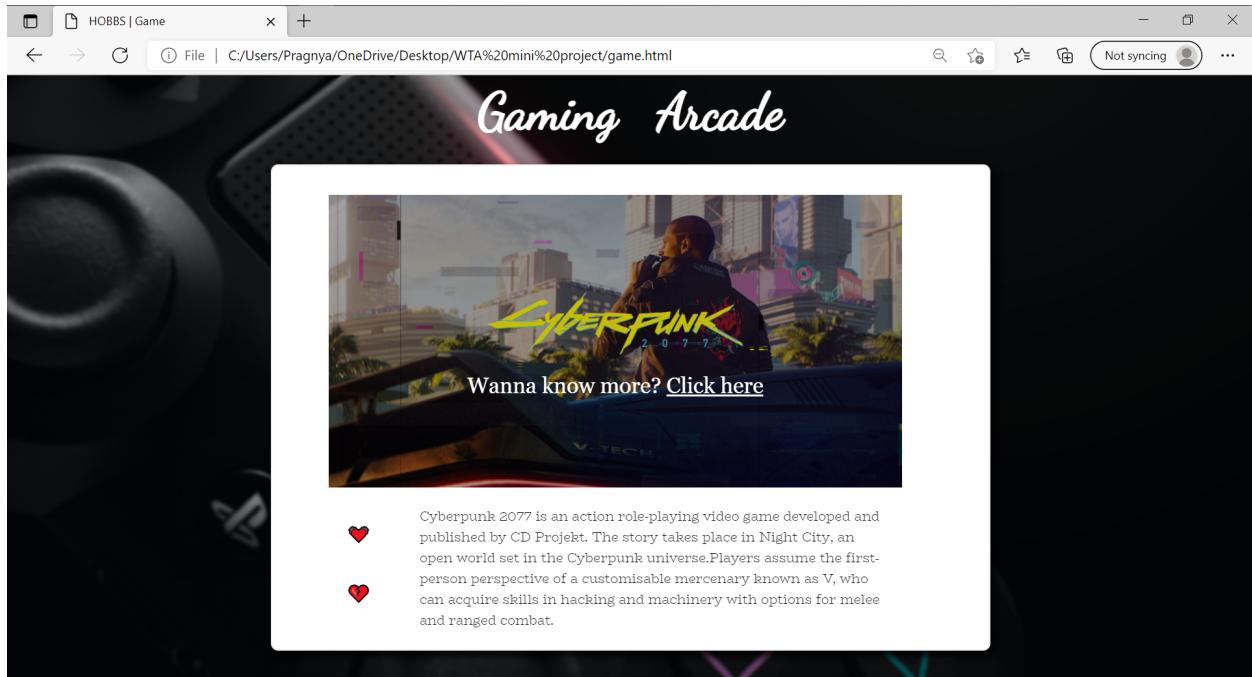
- Travel & adventures**: An image of a yellow van driving through a desert landscape with red rock formations.
- For foodies**: An image of a stack of pancakes being drizzled with syrup.
- Artists' arena**: An image of a person painting a classical building.
- Capturing the moment**: An image of a person holding a camera, taking a photo of a sunset.
- Gaming arcade**: An image of a person holding a game controller, playing a video game on a large screen.
- Have you chosen a good book?**: An image of a person holding an open book.

Travel page

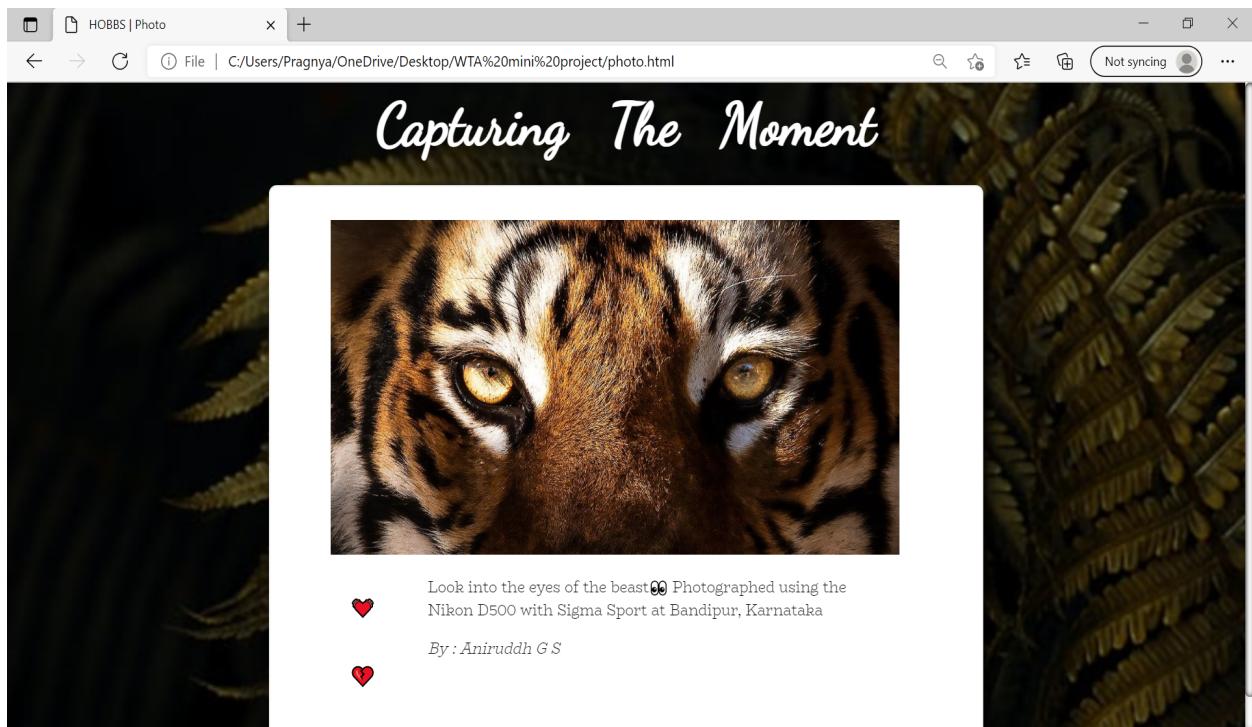
The screenshot shows a web browser window titled "HOBBS | Travel". The address bar indicates the file is located at "C:/Users/Pragnya/OneDrive/Desktop/WTA%20mini%20project/travel.html". The page features a banner with the text "Travel & Adventures". Below the banner, there is a featured image of a guesthouse named "Villa Helena" with a teal wall and white-framed windows. In front of the guesthouse, an orange Vespa scooter is parked. A callout box provides information about Pondicherry:

Pondicherry (or Puducherry), a French colonial settlement in India until 1954, is now a Union Territory bounded by the southeastern Tamil Nadu state. Its French legacy is preserved in its French Quarter, with tree-lined streets, mustard-colored colonial villas and chic boutiques.

Gaming page



Photography page



Conclusion

In conclusion, this is a simple web application that imitates famous platforms like **Instagram**, **Reddit**, etc. Even though the scale of this project is small, the core working principle is the same as that of those companies.

I believe this application can be extended in many ways but by keeping the target group small, it can focus on a small community of people.

DRAWBACKS

- This project is still very small and needs to be scaled.
- We can add options to add new hobby items.
- Option to edit, rating and comments can be added.

Future Work

Although this project is completely working, there are some things I would like to improve upon in my project,

- The ability to connect with people on the website via comment sections.
- The option to upload different images.
- To make it more user friendly.
- Comments section should have an option to edit.

Bibliography

- <https://www.w3schools.com/>
- <https://getbootstrap.com/>
- <https://developer.mozilla.org/>
- <https://www.wikipedia.org/>
- <https://stackoverflow.com/>

No other sources were used for the making of this project apart from the ones mentioned above.