SCTR’s Pune Institute of Computer Technology Dhankawadi, Pune

A.Y. 2023-24

WADL MINI PROJECT REPORT ON

“ Hotel Management System ”

Submitted By

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Under the guidance of

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DEPARTMENT OF INFORMATION TECHNOLOGY

ACADEMIC YEAR 2023-24

ABSTRACT

The " Hotel Management System " is a web-based application tailored to optimize the management of internships within educational institutions and organizations. This innovative project aims to streamline the entire process, from internship applications to evaluation and feedback, providing a centralized platform for both interns and supervisors.

At its core, the platform facilitates the submission of essential internship details, including intern profiles, project proposals, progress reports, and supervisor evaluations. Interns can conveniently access their profiles, track their project milestones, and ensure alignment with internship requirements and learning objectives.

Supervisors and mentors are granted comprehensive access to intern profiles within their respective departments or programs. This enables them to efficiently monitor intern progress, provide guidance, and offer timely feedback to foster professional growth and development.

Key features of the web application encompass secure user authentication, user-friendly interfaces for both interns and supervisors, database management for storing intern information and progress records, and robust communication tools to facilitate seamless interaction between interns and supervisors.

Overall, the " Hotel Management System " serves as an invaluable tool in enhancing the efficiency and effectiveness of managing internships, fostering a collaborative environment between interns and supervisors to maximize the learning experience and professional development opportunities.

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INTRODUCTION

In today's dynamic educational landscape, the fusion of technology and academia has become paramount, reshaping conventional learning paradigms and administrative workflows alike. A pivotal facet of this evolution lies in the digitization and automation of administrative tasks, particularly in managing internships and academic records. Recognizing the imperative for streamlined processes in educational institutions, we introduce the "Internship Management System" – an innovative web application poised to revolutionize internship management.

The genesis of the " Hotel Management System " project stems from the realization of the inherent complexities and inefficiencies entrenched in traditional internship management frameworks. In traditional settings, the coordination, tracking, and assessment of internships often entail cumbersome manual processes, prone to errors, delays, and communication gaps. The conventional reliance on paperwork and disjointed communication channels between interns and supervisors further exacerbates these challenges.

To surmount these hurdles, our team embarked on a journey to conceive and develop an avant-garde solution – the " Hotel Management System." This web-based application is meticulously crafted to streamline every facet of internship management, providing a unified platform accessible to both interns and supervisors alike. Harnessing the robust capabilities of the MEAN (MongoDB, Express.js, Angular, Node.js) full-stack technology stack, our project endeavors to redefine the landscape of internship management, fostering efficiency, transparency, and collaboration.

Through this report, readers will gain profound insights into the pivotal role our project plays in modern educational management. Moreover, it serves as a testament to our unwavering dedication to leveraging technology as a catalyst for addressing real-world challenges in academia, thereby propelling institutions towards heightened efficiency and productivity in internship management.

LITERATURE SURVEY

Sr No.	Title	Authors	Year of Publication
1	Simplifying Web Application Development Using - Mean Stack Technologies	Bakwa D. Dunka, Edim A. Emmanuel, Dantala O. Oyerinde	January 2018
2	Mean Stack Web Development	Logesh, Karthika	May 2020
3	The MEAN Stack	Mr. Ninaad Nirgudkar1, Ms. Pooja Singh2	May 2017

IMPLEMENTATION DETAILS

Web technologies used: *MERN Stack*

Frontend development: *ReactJS :*

Backend development:

> *Nodejs*: Used to develop the backend server and handle server-side operations such as routing, authentication, and database interactions.
> *MongoDB*: Used as the database management system to store student information, submission records, and other relevant data.

Integration: ExpressJS: As the web application framework for Node.js to handle server-side operations and routing.

- **User Authentication**: Implementing authentication mechanisms such as JWT (JSON Web Tokens) for secure user authentication and session management.

- **API Endpoints**: Developing RESTful APIs using Express.js to handle requests and responses between the frontend and backend components of the application.

- **Database Integration**: Integrating MongoDB with the backend using Mongoose to perform CRUD operations (Create, Read, Update, Delete) on student data and submission records.

- **Data Validation**: Implementing validation logic to ensure the integrity and consistency of data input by users, preventing errors and maintaining data quality.

- **Error Handling**: Implementing error handling mechanisms to gracefully handle exceptions and provide informative error messages to users when issues occur.

- **Testing**: Conducting unit tests and integration tests to verify the functionality and reliability of the application components.

- **Deployment**: Deploying the application on a web server using platforms such as Heroku or AWS (Amazon Web Services) for accessibility to users.

Implemented an API endpoint to handle the uploading of teacher data files.
Utilized multipart/form-data content type for file uploads.
Defined the key teacherFile for the file field in the form data, ensuring consistency in the field name for proper handling on the server-side.
Accepted teacher data files in various formats, accommodating different file names for flexibility.

Created an API endpoint for uploading student data files, though specific details on the implementation are not provided. Presumably, similar to the teacher data file upload, but tailored for student data.

Implemented an API endpoint to retrieve details of a specific teacher identified by their email address.
Used the provided email address as a unique identifier to fetch the teacher's details from the database.

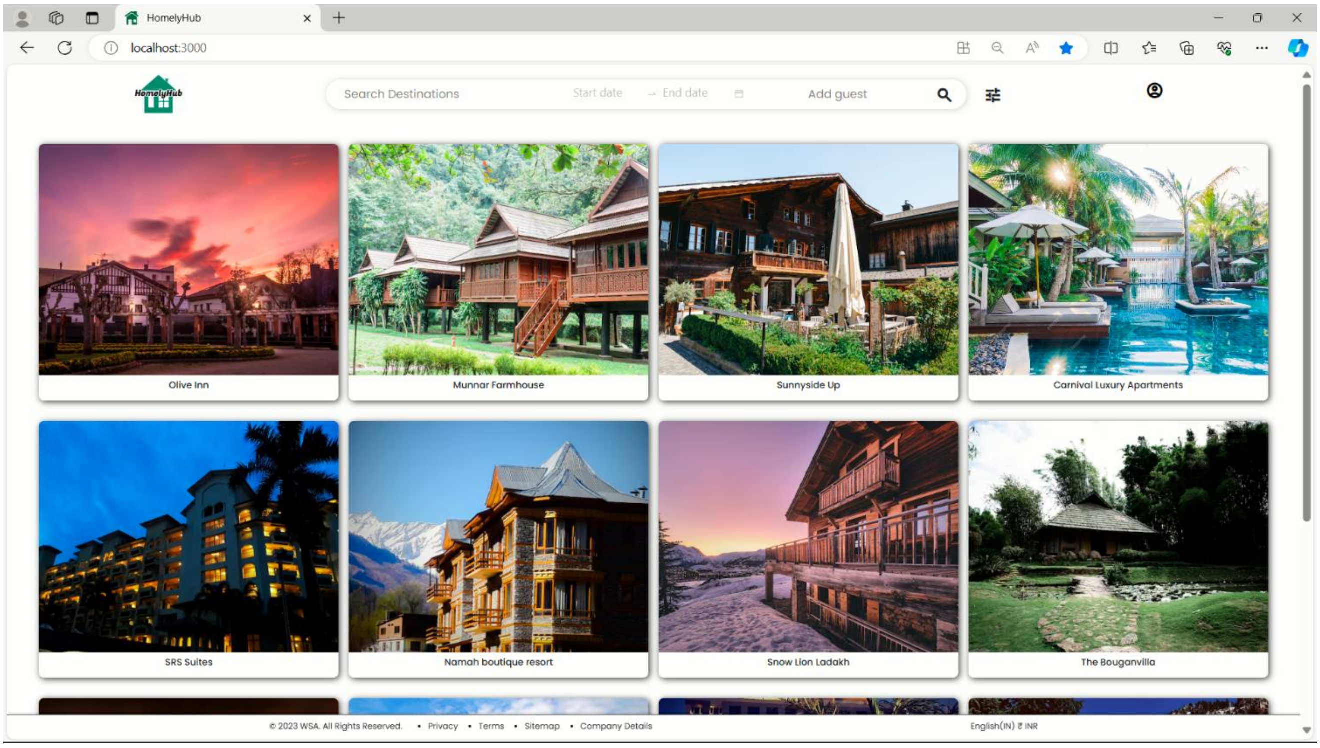
Developed an API endpoint to connect a teacher to students for a lab batch.
Utilized parameters such as teacherId, batch, and N to specify the teacher, lab batch, and relevant details for the connection.

Implemented an API to associate a teacher with students in a theory class.
Used parameters such as teacherId and class to specify the teacher and class details for the connection.

Developed an API to connect a course coordinator (CC) to students of a specific class.
Utilized parameters such as teacherId and cc to specify the course coordinator and their role in connecting with students.

Implemented an API endpoint to retrieve details of a specific student identified by their roll number.
Utilized the provided roll number as a unique identifier to fetch the student's details from the database.

OUTPUT



Olive Inn

Munnar Farmhouse

Sunnyside Up

Carnival Luxury Apartments

SRS Suites

Namah boutique resort

Snow Lion Ladakh

The Bouganvilla

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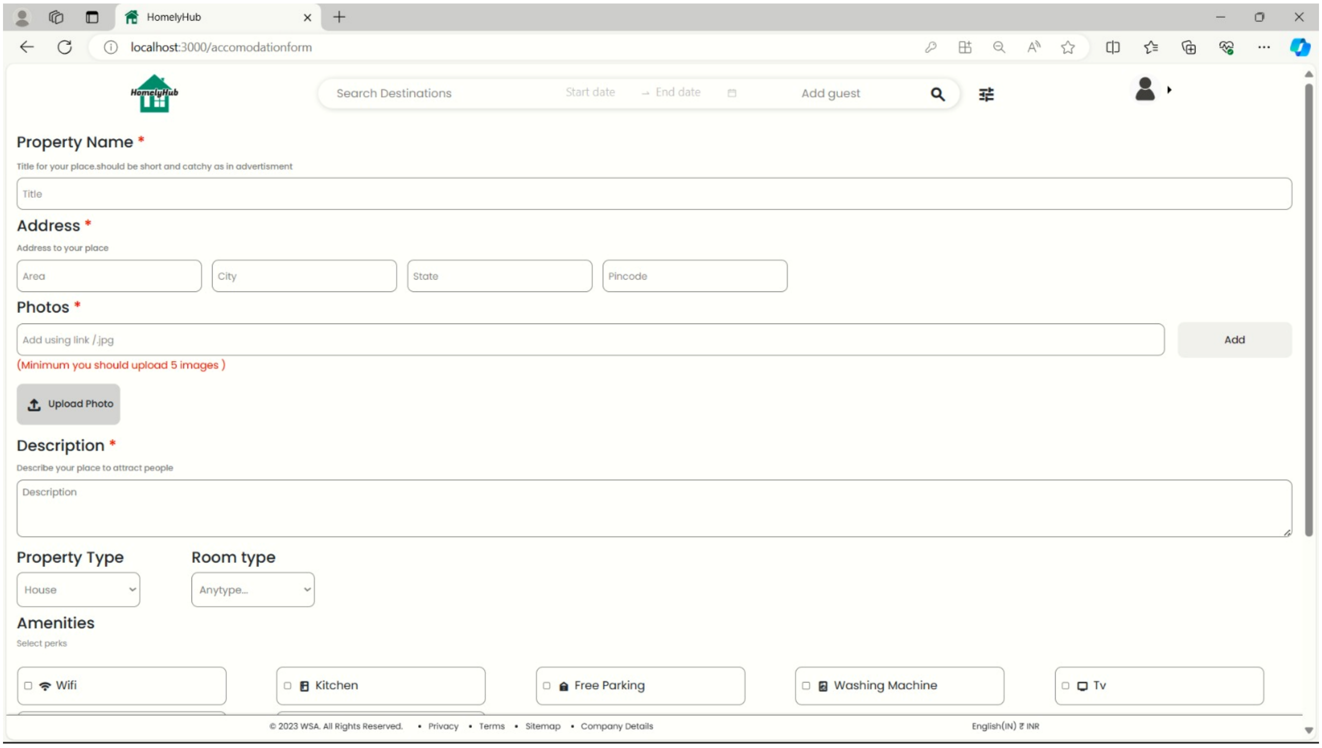

Property Name *

Title for your place.should be short and catchy as in advertisment

Title

Address *

Address to your place

Area

City

State

Pincode

Photos *

Add using link /.jpg

Add

(Minimum you should upload 5 images)

Upload Photo

Description *

Describe your place to attract people

Description

Property Type

House

Room type

Anytype..

Amenities

Select perks

□ Wifi □ Kitchen □ Free Parking □ Washing Machine □ Tv

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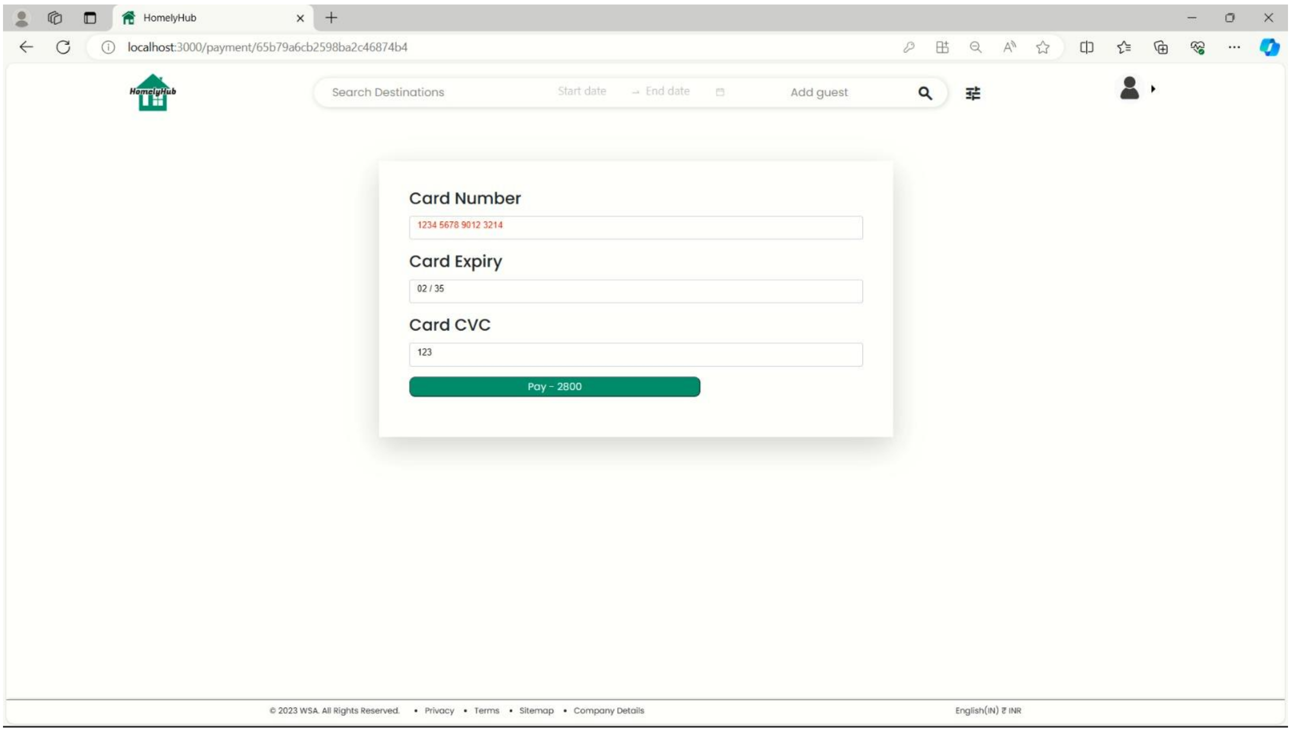
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localhost:3000/payment/65b79a6cb2598ba2c46874b4
HomelyHub
Search Destinations
Start date
→ End date
Add guest

Card Number

1234 5678 9012 3214

Card Expiry

02 / 35

Card CVC

123

Pay - 2800
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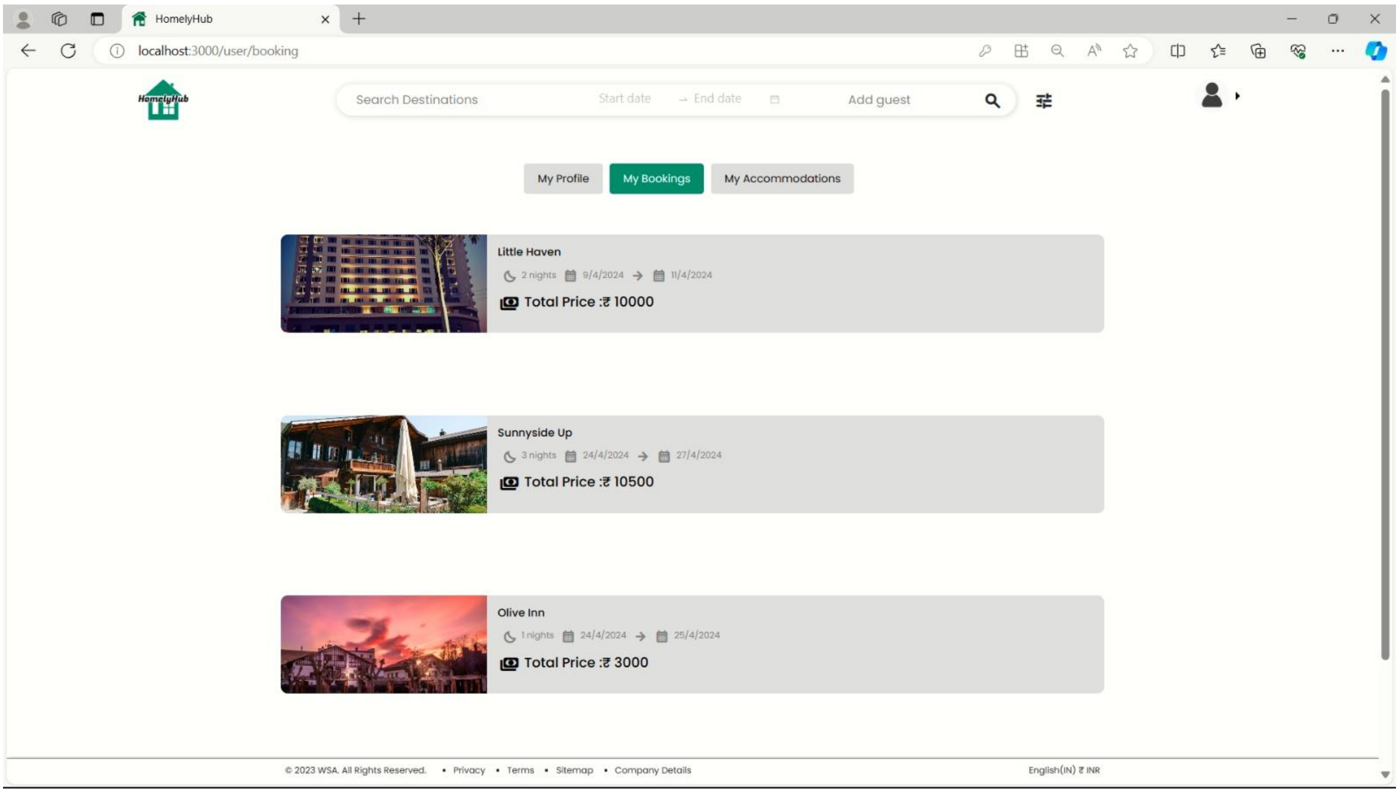

Little Haven

2 nights 9/4/2024 → 11/4/2024

Total Price :₹ 10000

Sunnyside Up

3 nights 24/4/2024 → 27/4/2024

Total Price :₹ 10500

Olive Inn

1 nights 24/4/2024 → 25/4/2024

Total Price :₹ 3000

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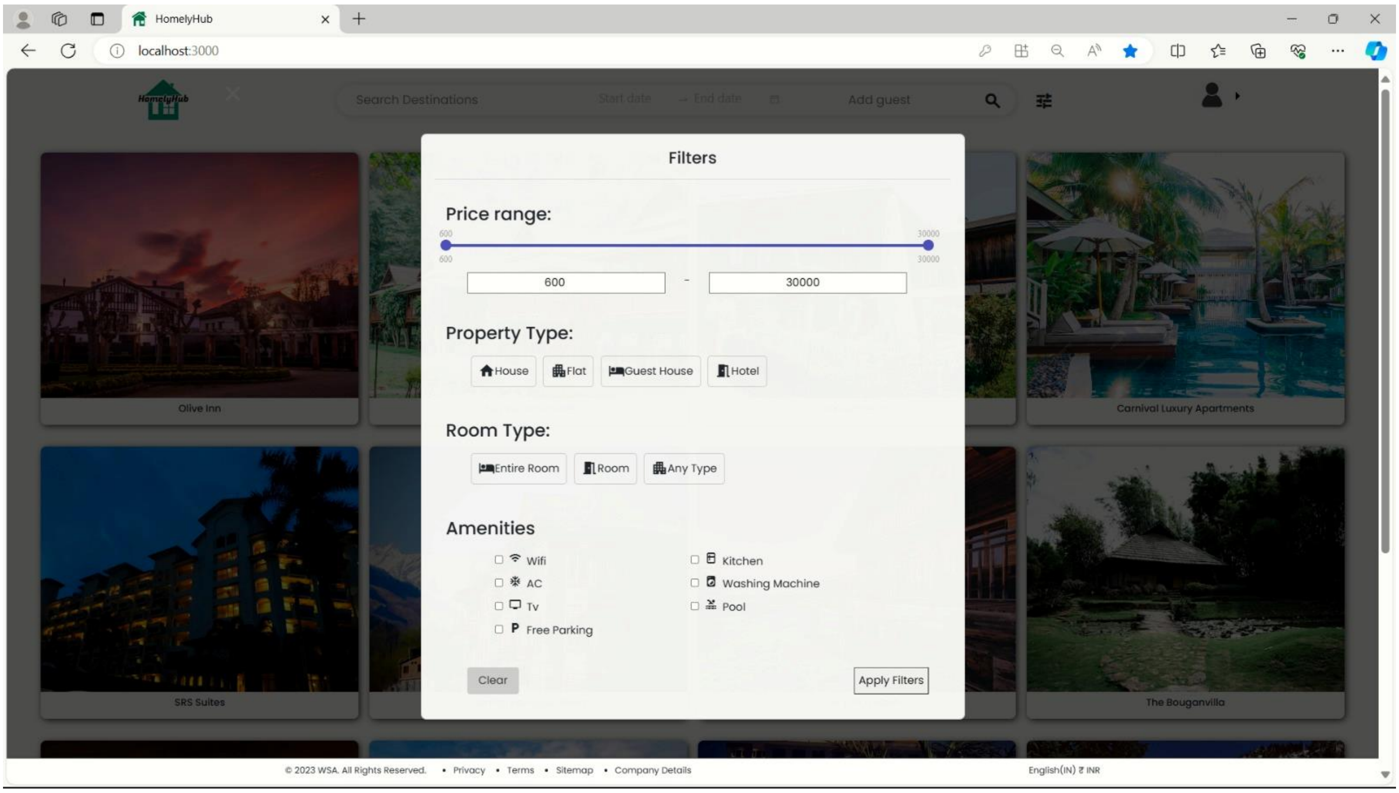

Filters

Price range:

600 - 30000

Property Type:

House | Flat | Guest House | Hotel

Room Type:

Entire Room | Room | Any Type

Amenities

- □ Wifi
- □ AC
- □ Tv
- □ Free Parking
- □ Kitchen
- □ Washing Machine
- □ Pool

Clear | Apply Filters

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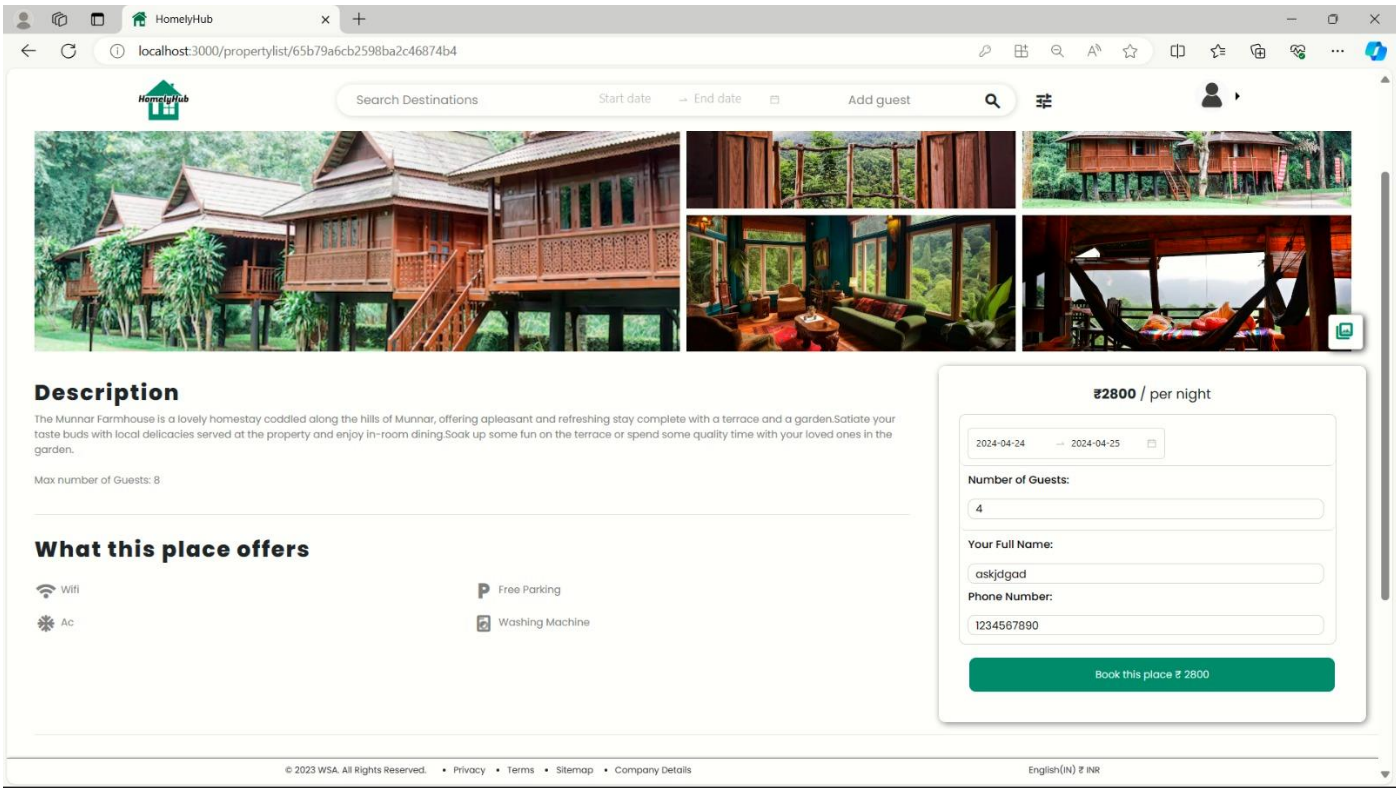

Description

The Munnar Farmhouse is a lovely homestay coddled along the hills of Munnar, offering apleasant and refreshing stay complete with a terrace and a garden.Satiate your taste buds with local delicacies served at the property and enjoy in-room dining.Soak up some fun on the terrace or spend some quality time with your loved ones in the garden.

Max number of Guests: 8

What this place offers

- Wifi
- Ac
- Free Parking
- Washing Machine

₹2800 / per night

2024-04-24 → 2024-04-25

Number of Guests: 4

Your Full Name: askjdgad

Phone Number: 1234567890

Book this place ₹ 2800

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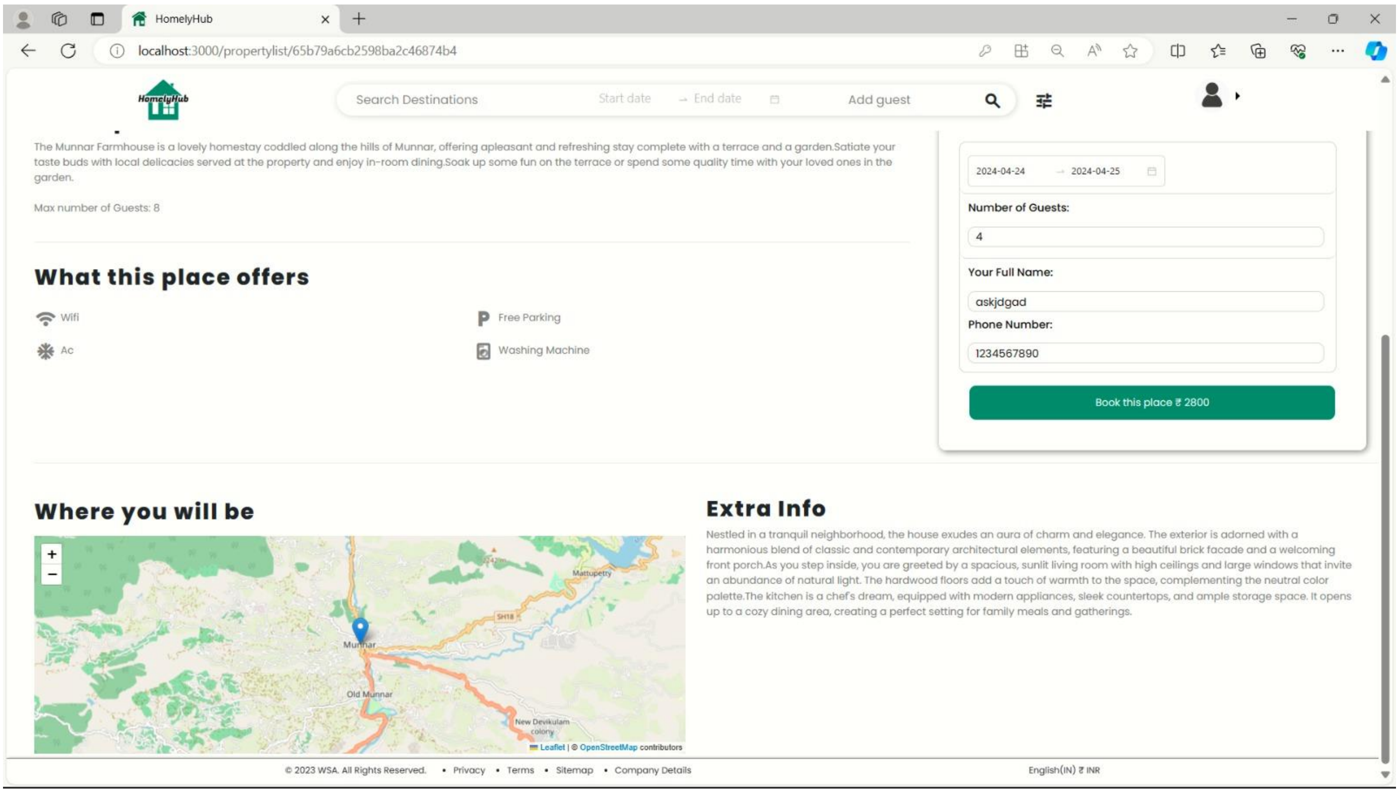

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- Washing Machine

2024-04-24 → 2024-04-25

Number of Guests: 4

Your Full Name: askjdgad

Phone Number: 1234567890

Book this place ₹ 2800

Where you will be

Extra Info

Nestled in a tranquil neighborhood, the house exudes an aura of charm and elegance. The exterior is adorned with a harmonious blend of classic and contemporary architectural elements, featuring a beautiful brick facade and a welcoming front porch.As you step inside, you are greeted by a spacious, sunlit living room with high ceilings and large windows that invite an abundance of natural light. The hardwood floors add a touch of warmth to the space, complementing the neutral color palette.The kitchen is a chef's dream, equipped with modern appliances, sleek countertops, and ample storage space. It opens up to a cozy dining area, creating a perfect setting for family meals and gatherings.

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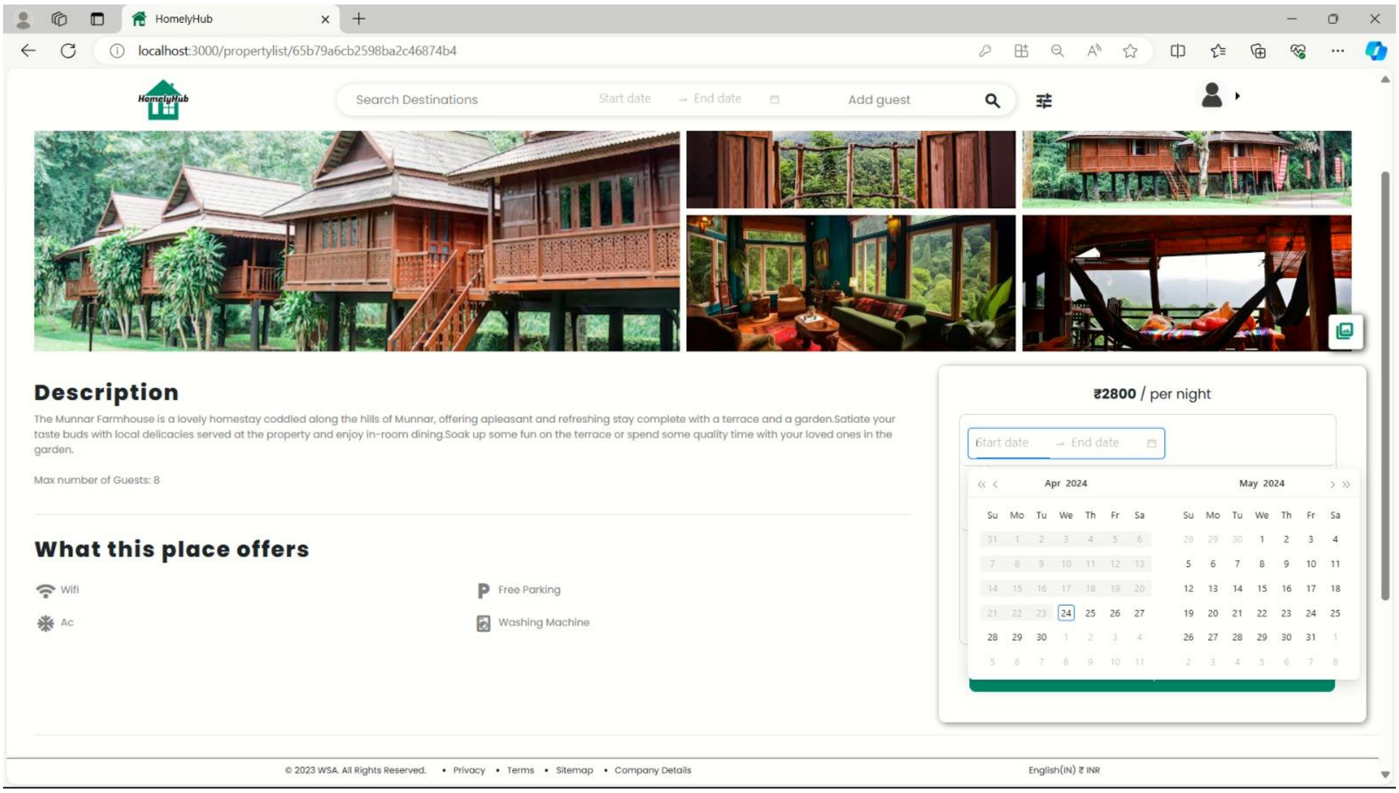

HomelyHub
localhost:3000/propertylist/65b79a6cb2598ba2c46874b4
HomelyHub
Search Destinations
Start date → End date
Add guest

Description

The Munnar Farmhouse is a lovely homestay coddled along the hills of Munnar, offering apleasant and refreshing stay complete with a terrace and a garden.Satiate your taste buds with local delicacies served at the property and enjoy in-room dining.Soak up some fun on the terrace or spend some quality time with your loved ones in the garden.

Max number of Guests: 8

What this place offers

- Wifi
- Ac
- Free Parking
- Washing Machine

₹2800 / per night

Start date → End date

Apr 2024

Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

May 2024

Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

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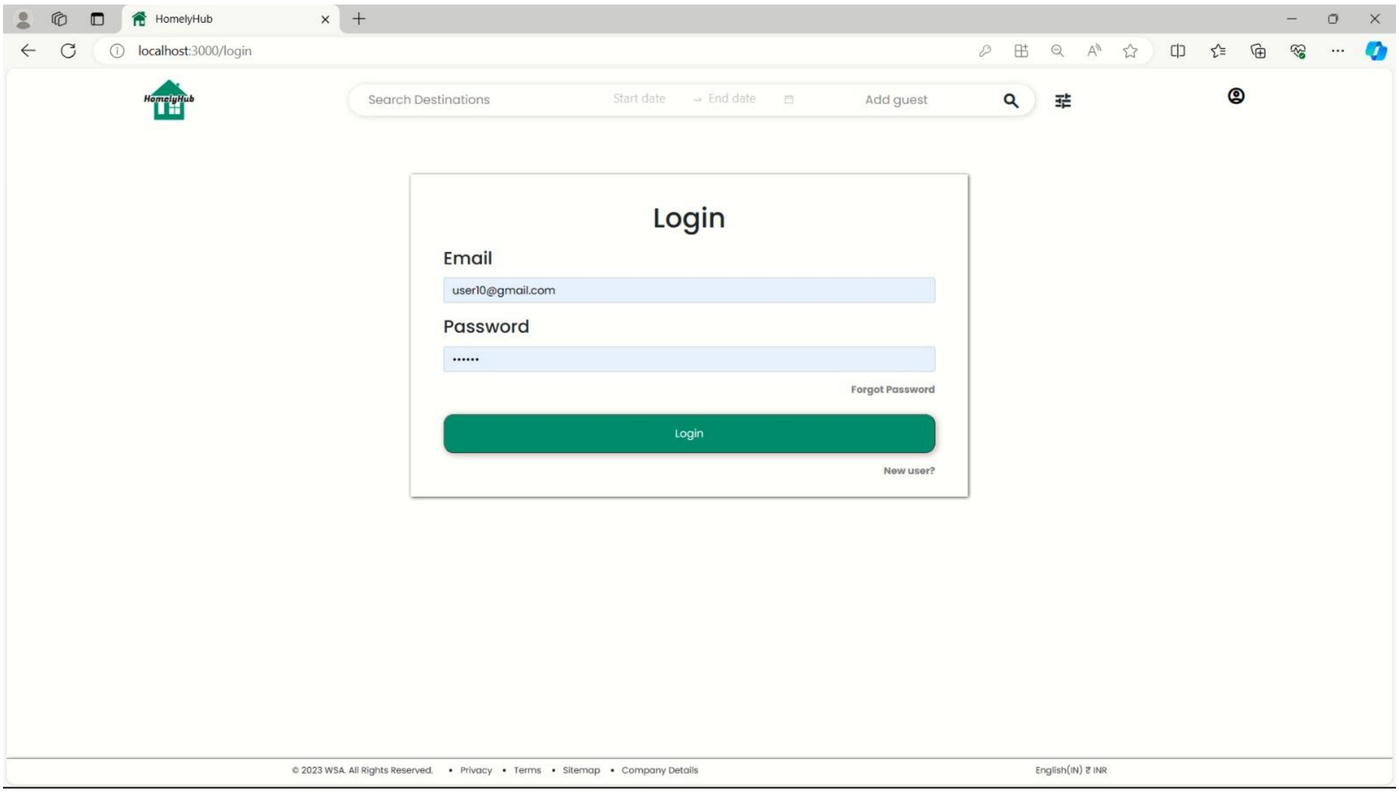

Login

Email

user10@gmail.com

Password

••••••

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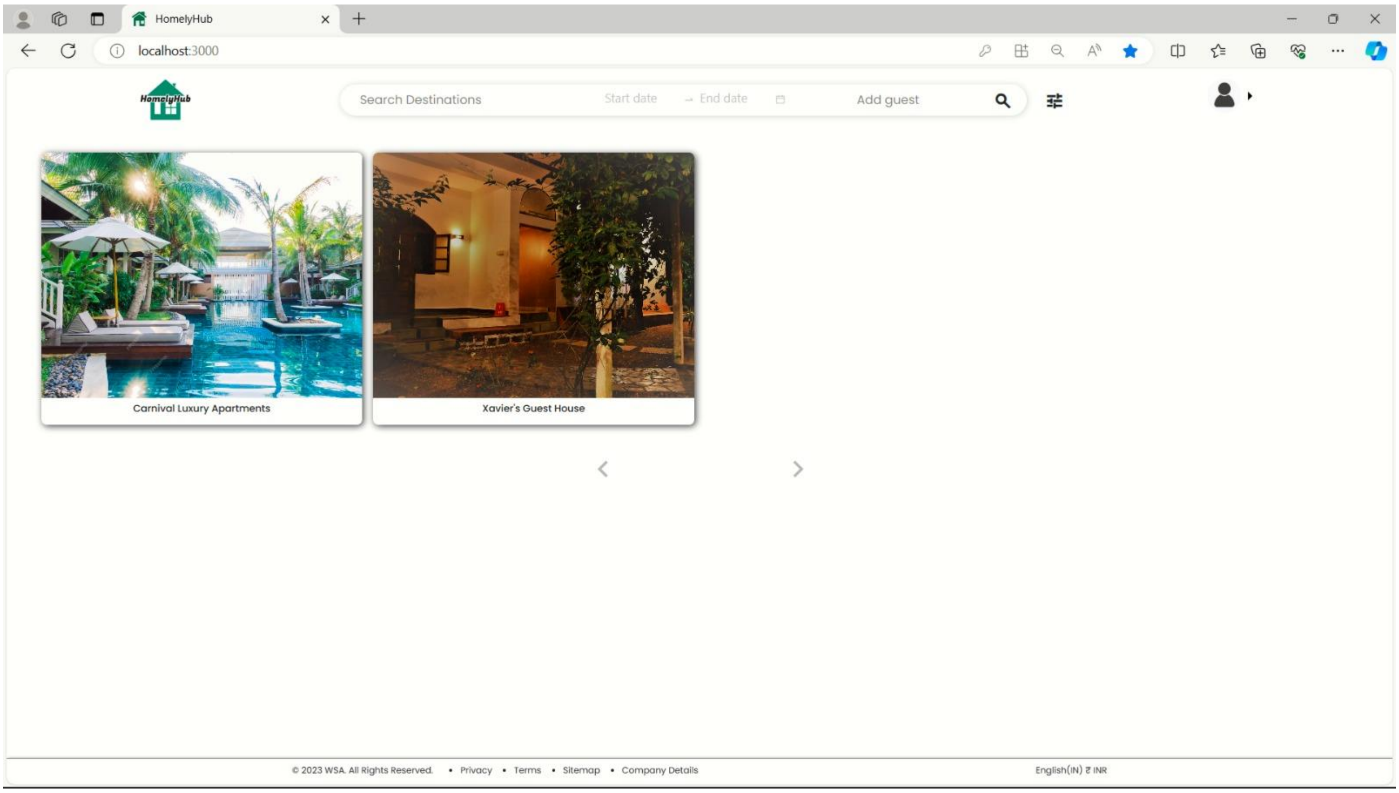

Carnival Luxury Apartments

Xavier's Guest House

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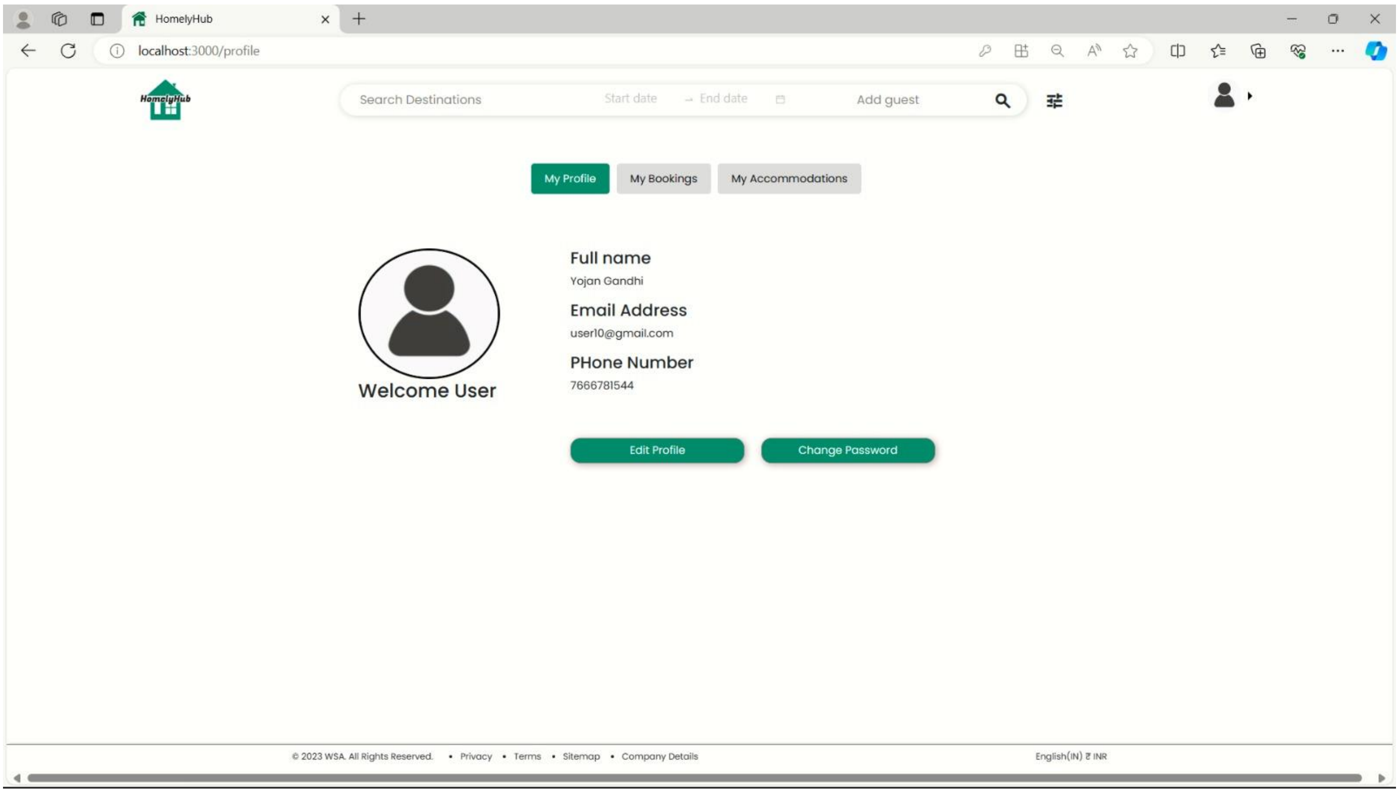

Welcome User

Full name
Yojan Gandhi

Email Address
user10@gmail.com

PHone Number
7666781544

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CONCLUSION

The creation of the " Hotel Management System " represents a holistic remedy to the intricacies surrounding internship management within academic environments. Through the adept utilization of the MEAN (MongoDB, Express.js, Angular, Node.js) full stack, we've engineered a resilient and intuitive web application poised to revolutionize the internship lifecycle, fostering seamless communication, accountability, and transparency.

Our platform, serving as a centralized hub accessible to both interns and supervisors, cultivates an environment conducive to harmonious collaboration and efficient submission management. By integrating cutting-edge features like file upload APIs, mentor-intern connection endpoints, and fortified authentication mechanisms, we've ensured a solution finely tuned to the multifaceted needs of educational institutions.

Furthermore, the success of our endeavor underscores the transformative impact of technology on traditional educational practices. Through the adept fusion of web technologies, we've showcased how innovation can catalyze efficiency, productivity, and ultimately, academic prowess. Looking ahead, we envision our project as a harbinger of forthcoming advancements in educational technology, inspiring novel methodologies for internship management and charting a course towards a more streamlined and collaborative educational ecosystem.

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