

INNOVATIVE ASSIGNMENT

SUBJECT: FULL STACK WEB DEVELOPMENT

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TOPIC: EXPENSE MANAGER

INTRODUCTION:-

- ❑ Are you tired of keeping track of your daily expenses on scattered pieces of paper or juggling through numerous apps to manage your finances? Say hello to my innovative Expense Manager! It's a user-friendly web application designed to simplify the process of tracking and managing your daily expenses effortlessly.
- ❑ With my Expense Manager, you can easily record your expenses date-wise, making it convenient to review and analyze your spending habits over time. Whether it's a cup of coffee, grocery shopping, or a night out with friends, simply input the expense along with the date, and the app will take care of the rest.
- ❑ But that's not all! One of the standout features of my Expense Manager is its ability to calculate your monthly expenses and can send it to anyone by converting into pdf which contains the complete tabular format which contains date, description, quantity of product, amount per quantity, and total amount.

Key Features:-

- 1)Easy Expense Tracking:** Record your expenses effortlessly, organized by date for easy reference.
- 2)Monthly Expense Calculation:** Get a clear picture of your monthly spending habits at a glance.
- 3)Customizable Categories:** Categorize your expenses to better understand where your money is going.
- 4)Data Analysis:** Gain insights into your spending patterns and identify areas where you can save.
- 5)easy graph analysis:** easy to understanding daily spendings by graph analysis

APPLICATION:-

1)Parental Communication Tool:

Boys living in hostels often rely on financial support from their parents. Your Expense Manager can serve as a communication tool between the boys and their parents. They can easily share monthly expense reports with their parents, providing a transparent view of how the money is being spent.

2)Budget Planning for Allowance:

Hostel life comes with its own set of expenses, including food, laundry, stationery, etc. Your Expense Manager allows these boys to plan their monthly budget effectively. They can set allowances for different categories of expenses and track their spending to ensure they stay within budget.

3)Expense Sharing Among Roommates:

Often, hostel mates share common expenses such as groceries, utilities, or communal items. Your Expense Manager can facilitate the tracking and splitting of these shared expenses among roommates. It promotes accountability and ensures fair distribution of costs.

4)Financial Independence and Responsibility:

Managing expenses independently fosters a sense of financial responsibility and independence among boys living in hostels. Your Expense Manager empowers them to track their spending, analyze their habits, and make informed financial decisions.

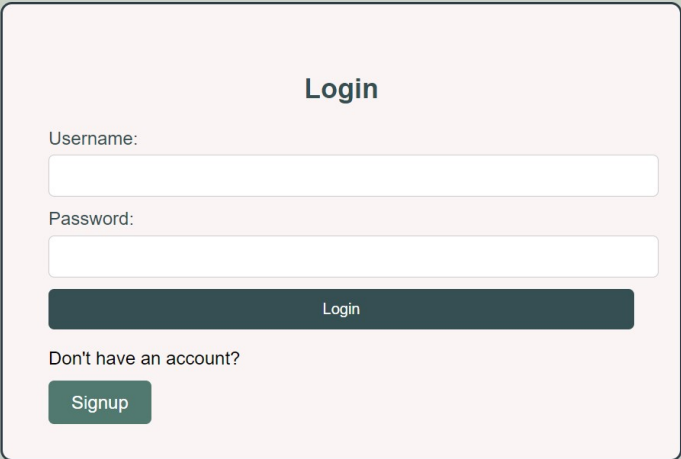
- ❑ By catering to the specific needs and challenges faced by boys living in hostels, your Expense Manager becomes an invaluable tool for promoting financial literacy, accountability, and smart money management habits.

CONCEPT OR TOOLS WHICH I USE FOR MAKING :-

- **DATABASE SYSTEM:** MONGODB ATLAS
- **LANGUAGES:** HTML, CSS ,JAVASCRIPT
- **ONRENDER:** FOR DEPLOYMENT OF SITE

1) login page:-

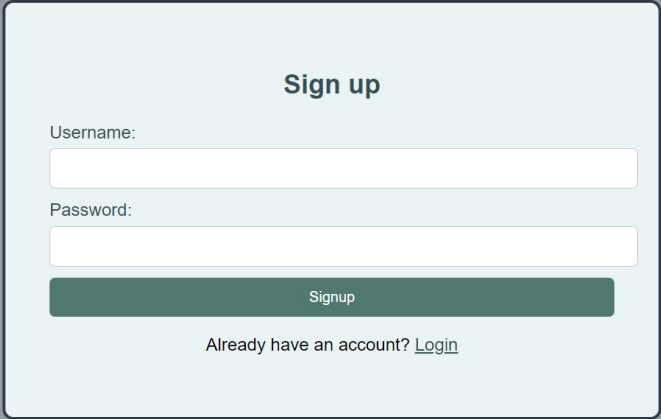
first we have to sign up with username and password this data will be store in mongodb atlas database,when user want to login it we have to enter username &password correct then username && password authenticate with database and if it is right then we reach to the home page and if wrong then it throw error invalid password or username



The image shows a login form centered on a light green background. The form is a light pink rectangle with rounded corners. At the top, the word "Login" is centered in a bold, dark font. Below it, there are two input fields: "Username:" followed by a white text box, and "Password:" followed by a white text box. Below the password field is a dark green button with the word "Login" in white. At the bottom of the form, the text "Don't have an account?" is displayed, followed by a dark green button with the word "Signup" in white.

2)sign up

now if user enter to the first time then we have to do signup with username & password ,if the username already exist then it can't sign up, after sucessful signup we will be redirect to login page then we have to login with created user&& password.



The image shows a sign-up form centered on a dark gray background. The form is a light blue rounded rectangle with a dark gray border. At the top of the form, the text "Sign up" is centered in a bold, dark gray font. Below this, there are two input fields. The first is labeled "Username:" in a small, dark gray font, followed by a white rectangular input box with a thin gray border. The second is labeled "Password:" in a small, dark gray font, followed by a white rectangular input box with a thin gray border. Below the password field is a dark green rectangular button with the word "Signup" in white text. At the bottom of the form, the text "Already have an account? [Login](#)" is centered, with "Login" being a blue underlined link.


3)home page:-

[Logout](#)
Welcome, vaibhav!

Expense Manager

Add Expense

Date	Description	Quantity	Amount per Item	Total Amount	Delete
2024-03-12T00:00:00.000Z	pulav	1	45	45	<button>Delete</button>
2024-04-17T00:00:00.000Z	punjabi	2	500	1000	<button>Delete</button>
2024-04-11T00:00:00.000Z	dalbati	3	290	870	<button>Delete</button>



Share Monthly Expense Details (PDF)

Total Monthly Expense: 1915.00

About Us

After login successfully website redirect us to the home page in which it helps us to manage our daily expenses, here we take input of date,description,quantity,amount per item this data will be stored in a database . On the home page we can see the expense table in which details of expenses are available , here we can also delete the data from table. we can easily analyse our daily expenses with the help of graph and also can share our monthly expense details to others in pdf form.At the end we can see total expenses.

4)converted data into pdf:-

[Logout](#)

Welcome, vaibhav!

Expense Manager

Date	Description	Quantity	Amount per Item	Total Amount	Delete
2024-03-01T00:00:00.000Z	xnjin	2	23	46	<input type="button" value="Delete"/>
2024-03-12T00:00:00.000Z	rtdtrtr	4	3	12	<input type="button" value="Delete"/>
2024-03-10T00:00:00.000Z	kachori	2	20	40	<input type="button" value="Delete"/>
2024-03-11T00:00:00.000Z	pavbhaji2	2	45	90	<input type="button" value="Delete"/>
2024-03-12T00:00:00.000Z	pulav	1	45	45	<input type="button" value="Delete"/>
2024-03-17T00:00:00.000Z	dalbati	1	90	90	<input type="button" value="Delete"/>
2024-03-13T00:00:00.000Z	samosa	2	25	50	<input type="button" value="Delete"/>

Total Monthly Expense: 373.00

[About Us](#)

5) backend database & database connection with frontend:-

now by using mongodb atlas database we can easily handle our user database and expenses data, we store the user data and according to that data we also store their expense data in mongodb atlas,we use body parserer to retrieve data when particular user login then he can see previous saved data.

Connect to MongoDB:-

```
mongoose.connect('mongodb+srv://dev2004patel:huZeZAJtgXhhNyIZ@cluster0.grpntfd.mongodb.net/?retryWrites=true&w=majority&appName=Cluster0', { useNewUrlParser: true, useUnifiedTopology: true })
  .then(() => console.log('MongoDB connected'))
  .catch(err => console.error('MongoDB connection error:', err));
```

Define User schema:-

```
const userSchema = new mongoose.Schema({
  username: String,
  password: String,
  expenses: [{
    date: Date,
    description: String,
    quantity: Number,
    amount: Number,
    totalAmount: Number
  }]
});

// Create User model
const User = mongoose.model('User', userSchema);
```


test.users

9 1
DOCUMENTS INDEXES

Documents Aggregations Schema Indexes Validation

Filter Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 9 of 9

```
{
  "_id": ObjectId('660467d91111904bf7fa6bce'),
  "username": "vismay",
  "password": "123",
  "expenses": Array(2)
}
0: Object
  date: 2024-03-01T00:00:00.000+00:00
  description: "sandwich"
  quantity: 4
  amount: 55
  totalAmount: 220
  _id: ObjectId('660467f31111904bf7fa6bd5')
1: Object
__v: 4
```

6) about us page:-

About Us

Our Team

developed by: dev patel & jaimin patel
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managed by: dev patel

All Rights Reserved.
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