PROJECT REPORT

PROJECT TITLE:

Personal Finance Dashboard

Features

Student Name: Dhanapal p

RegistrationNumber: 732424149010

College Name: Sasurie college of engineering

Department: BE.CSE(CS)

Year/Semester: II/III

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Project Title:

Personal Finance Dashboard

Features:

1. Abstract

The Personal Finance Dashboard is a web-based application developed to help users manage and monitor their personal income and expenses effectively. The system allows users to record financial transactions, categorize expenses, and view monthly summaries through an interactive dashboard. It uses JavaScript for dynamic updates and browser Local Storage for data persistence, eliminating the need for a backend database. This project aims to improve budgeting habits by providing clear financial insights using charts and summaries in a user-friendly interface.

2. Introduction

Managing personal finances is an essential skill in today's world. The Personal Finance Dashboard helps users track their income and expenses in an organized manner. By visualizing financial data monthly and category-wise, users can better understand their spending behavior and make informed financial decisions.
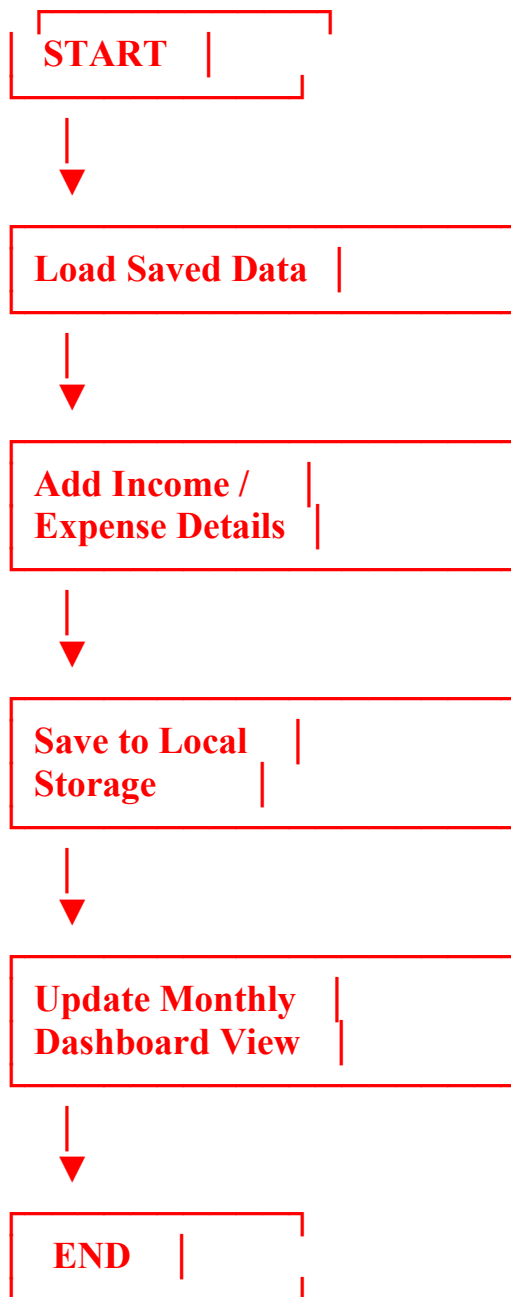
3.Objectives
- To record income and expenses

- To analyze expenses category-wise

- To display monthly financial summaries

- To store data using Local Storage

- To create an interactive dashboard using JavaScrip

Tools and Technologies

- **HTML** – Page structure

- **CSS** – Styling and layout

- **JavaScript** – Logic, DOM manipulation, Local Storage

4. Flowchart of Project Workflow

```
┌─────────────────┐
│  START          │
└─────────────────┘
        │
        ▼
┌─────────────────┐
│ Load Saved Data │
└─────────────────┘
        │
        ▼
┌─────────────────┐
│ Add Income /    │
│ Expense Details │
└─────────────────┘
        │
        ▼
┌─────────────────┐
│ Save to Local   │
│ Storage         │
└─────────────────┘
        │
        ▼
┌─────────────────┐
│ Update Monthly  │
│ Dashboard View  │
└─────────────────┘
        │
        ▼
┌─────────────────┐
│  END            │
└─────────────────┘
```

5.Source Code

```html
<!DOCTYPE html>
<html>
<head>
<title>Monthly Finance Dashboard</title>
<script src="https://cdn.jsdelivr.net/npm/chart.js"></script>

<style>
*{
    box-sizing:border-box;
    font-family:"Segoe UI",sans-serif;
}
body{
    margin:0;
    background:linear-gradient(135deg,#667eea,#764ba2);
    min-height:100vh;
}
.container{
    max-width:1150px;
    margin:auto;
    padding:20px;
}
h1{
    color:white;
    margin-bottom:15px;
}

/* Glass card */
.glass{
    background:rgba(255,255,255,0.92);
    backdrop-filter:blur(10px);
    border-radius:16px;
    box-shadow:0 15px 35px rgba(0,0,0,.15);
    padding:18px;
}

/* Controls */
.controls{
    display:flex;
    gap:10px;
    align-items:center;
    margin-bottom:20px;
}
select,input{
    padding:10px;
    border-radius:8px;
    border:1px solid #ccc;
    outline:none;
}

/* Cards */
.cards{
    display:grid;
    grid-template-columns:repeat(4,1fr);
    gap:15px;
```

```css
}
.card{
    padding:18px;
    border-radius:16px;
    color:white;
    transition:transform .25s;
}
.card:hover{transform:translateY(-6px)}
.incomeCard{background:linear-gradient(135deg,#43cea2,#185a9d)}
.expenseCard{background:linear-gradient(135deg,#ff512f,#dd2476)}
.balanceCard{background:linear-gradient(135deg,#8360c3,#2ebf91)}
.rateCard{background:linear-gradient(135deg,#f7971e,#ffd200)}
.card h4{opacity:.85}

/* Charts */
.charts{
    display:grid;
    grid-template-columns:1fr 1fr;
    gap:20px;
    margin-top:20px;
}

/* Form */
.form{
    margin-top:20px;
}
.form input,.form select{
    width:160px;
}
button{
    background:#4f6cff;
    color:white;
    border:none;
    padding:10px 18px;
    border-radius:10px;
    cursor:pointer;
    transition:.2s;
}
button:hover{
    background:#3c53d9;
    transform:scale(1.05);
}

/* Table */
table{
    width:100%;
    margin-top:20px;
    border-collapse:collapse;
}
th{
    background:#f2f4ff;
}
th,td{
    padding:12px;
    text-align:center;
}
tr:hover{background:#f9f9ff}
.income{color:#2e7d32;font-weight:bold}
.expense{color:#c62828;font-weight:bold}
```

```html
@media(max-width:900px){
    .cards,.charts{grid-template-columns:1fr}
}
</style>
</head>

<body>

<div class="container">
<h1>⬚ Monthly Finance Dashboard</h1>

<!-- Month Control -->
<div class="glass controls">
Month:
<select id="month">
<option value="0">Jan</option><option value="1">Feb</option>
<option value="2">Mar</option><option value="3">Apr</option>
<option value="4">May</option><option value="5">Jun</option>
<option value="6">Jul</option><option value="7">Aug</option>
<option value="8">Sep</option><option value="9">Oct</option>
<option value="10">Nov</option><option value="11">Dec</option>
</select>

Year:
<input type="number" id="year" value="2025">
<button onclick="render()">Apply</button>
</div>

<!-- Dashboard -->
<div class="cards">
<div class="card incomeCard">
<h4>Income</h4>
<h2>₹ <span id="income">0</span></h2>
</div>

<div class="card expenseCard">
<h4>Expense</h4>
<h2>₹ <span id="expense">0</span></h2>
</div>

<div class="card balanceCard">
<h4>Balance</h4>
<h2>₹ <span id="balance">0</span></h2>
</div>

<div class="card rateCard">
<h4>Savings %</h4>
<h2><span id="rate">0</span>%</h2>
</div>
</div>

<!-- Charts -->
<div class="charts">
<div class="glass">
<h3>Monthly Overview</h3>
<canvas id="barChart"></canvas>
</div>
<div class="glass">
```

```html
<h3>Spending by Category</h3>
<canvas id="donutChart"></canvas>
</div>
</div>

<!-- Entry -->
<div class="glass form">
<h3>Add Transaction</h3>
<input id="amount" type="number" placeholder="Amount">
<select id="type">
<option value="income">Income</option>
<option value="expense">Expense</option>
</select>
<select id="category">
<option>Salary</option>
<option>Food</option>
<option>Rent</option>
<option>Travel</option>
<option>Shopping</option>
</select>
<button onclick="addData()">Add</button>
</div>

<!-- Table -->
<div class="glass">
<table>
<thead>
<tr><th>Category</th><th>Type</th><th>Amount</th></tr>
</thead>
<tbody id="list"></tbody>
</table>
</div>
</div>

<script>
let data=JSON.parse(localStorage.getItem("financeLive"))||[];
let barChart,donutChart;

function addData(){
    let amt=Number(amount.value);
    if(!amt) return alert("Enter amount");
    data.push({
        amount:amt,
        type:type.value,
        category:category.value,
        month:month.value,
        year:year.value
    });
    localStorage.setItem("financeLive",JSON.stringify(data));
    amount.value="";
    render();
}

function render(){
    let inc=0,exp=0,cats={};
    list.innerHTML="";
    data.filter(d=>d.month==month.value && d.year==year.value)
    .forEach(d=>{
        list.innerHTML+=`
```

```
            <tr>
            <td>${d.category}</td>
            <td class="${d.type}">${d.type}</td>
            <td>₹ ${d.amount}</td>
            </tr>`;
            d.type=="income"?inc+=d.amount:exp+=d.amount;
            if(d.type=="expense")
                cats[d.category]=(cats[d.category]||0)+d.amount;
    });

    income.textContent=inc;
    expense.textContent=exp;
    balance.textContent=inc-exp;
    rate.textContent=inc?(((inc-exp)/inc)*100).toFixed(1):0;
    drawCharts(inc,exp,cats);
}

function drawCharts(inc,exp,cats){
    if(barChart) barChart.destroy();
    if(donutChart) donutChart.destroy();

    barChart=new Chart(barChartCanvas,{
        type:"bar",
        data:{
            labels:["Income","Expense"],
            datasets:[{
                data:[inc,exp],
                backgroundColor:["#2ecc71","#e74c3c"]
            }]
        }
    });

    donutChart=new Chart(donutChartCanvas,{
        type:"doughnut",
        data:{
            labels:Object.keys(cats),
            datasets:[{
                data:Object.values(cats),
                backgroundColor:["#ff6384","#36a2eb","#ffcd56","#4bc0c0","#9966ff"]
            }]
        }
    });
}

month.value=new Date().getMonth();
const barChartCanvas=document.getElementById("barChart");
const donutChartCanvas=document.getElementById("donutChart");
render();
</script>

</body>
</html>
```
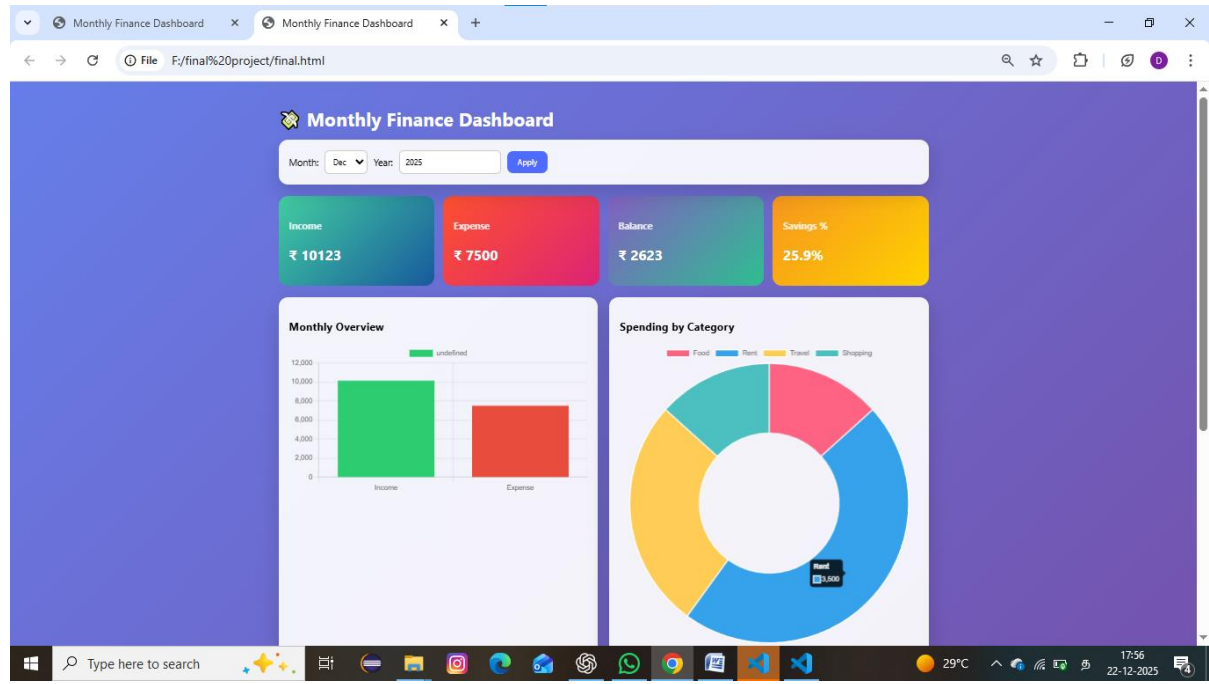
6. Sample Output / Screenshots

7. Conclusion

The Personal Finance Dashboard is an effective tool for personal financial management. It provides real-time insights into income and expenses while demonstrating practical implementation of HTML, CSS, and JavaScript concepts.

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8. References

Simple Travel Website Sample (HTML & CSS)
file:///F:/final%20project/final.html

Github link:
https://github.com/packiyapackiya42-blip/advance-level-project