

## Budget Approval System

Here's a concise list of features with brief descriptions for your Budget Approval System:

- **User Registration & Login:**  
Users can create accounts and securely log in using JWT or cookie-based authentication.
- **Role-Based Access Control:**  
Access is controlled by roles (Employee, Manager, Admin), ensuring each user sees only what they're authorized to.
- **Budget Request Submission:**  
Employees can submit new budget requests with details like title, amount, and description.
- **Request Tracking & History:**  
Employees can view the status and historical updates of their submitted requests.
- **Manager Approval Workflow:**  
Managers can review, approve, or reject pending budget requests from their team.
- **Administrative Oversight:**  
Admins have access to all budget requests across the organization, with tools for global monitoring.
- **Dashboard Visualizations:**  
Interactive charts and graphs (e.g., pie charts, bar charts, line charts) provide insights into request statuses, trends, and financial summaries.
- **Audit Trail & Logging:**  
All user actions and request updates are logged for accountability and troubleshooting.
- **Real-Time Notifications:**  
Users receive immediate feedback (via snackbars/alerts) for submissions, approvals, and errors.
- **RESTful API Integration:**  
The system exposes secure API endpoints for front-end consumption and integration with other systems.
- **Responsive & Modern UI:**  
Built using React and Material UI, the interface is user-friendly and responsive across devices.

## Backend Technologies

- **ASP.NET Core:**  
A high-performance, cross-platform framework for building APIs and web applications.
- **Entity Framework Core:**  
An ORM for managing database interactions, handling migrations, and ensuring data integrity.
- **ASP.NET Identity:**  
A framework for handling user registration, authentication, and role-based authorization.
- **JWT Bearer Authentication:**  
Use JSON Web Tokens for securing API endpoints.
- **SQL Server:**  
A reliable relational database for storing application data.

## Frontend Technologies

- **React:**  
A JavaScript library for building dynamic, single-page applications.
- **Material UI:**  
A popular React UI framework that provides pre-built, responsive components.
- **Recharts:**  
A charting library for building interactive and responsive visualizations.
- **Axios:**  
A promise-based HTTP client for making API requests.