

Project Documentation: Dashboard System

Project Overview

The Dashboard System is a web-based application designed to provide role-based dashboards for Super Admin, Sub Admin, User, and Customer roles. It supports user authentication, password recovery, and role-specific functionalities such as user management, customer management, and performance tracking. The application features a responsive UI with animations (via Framer Motion), data visualization (via Recharts), and a modular architecture for scalability.

Technology Stack

The project utilizes a modern web development stack to ensure performance, scalability, and developer productivity:

- **Frontend:**
 - **React:** JavaScript library for building dynamic user interfaces. ○ **React Router:** For client-side routing and navigation.
 - **Tailwind CSS:** Utility-first CSS framework for responsive and customizable styling.
 - **Framer Motion:** For animations and transitions in UI components. ○ **Recharts:** For rendering charts (AreaChart, BarChart) in dashboards.
 - **React Icons:** For iconography (e.g., FaEnvelope, FaLock).
- **Build Tools:**
 - **Vite:** Development server and bundler (assumed, based on modern React setup).
 - **ESLint/Prettier** (assumed): For code linting and formatting.
- **Other:**
 - **LocalStorage:** For storing authentication tokens and user data.
 - **CDN:** React and dependencies are assumed to be hosted via cdn.jsdelivr.net for production.

Folder Structure

The project follows a modular, MVC-inspired folder structure for the frontend, promoting maintainability and scalability. Below is the folder structure with a textual

tree representation: login screen1/

└─ public

| └─ index.html

└─ src

| └─ components

| | └─ Login

| | | └─ Login.css

| | | └─ Login.jsx

| | | └─ LoginForm.jsx

| | └─ AuthContext.jsx

| | └─ Dashboard.jsx

| | └─ Navbar.jsx

| └─ pages

| | └─ Dashboard

| | | └─ SubAdminDashboard.jsx

| | | └─ SuperAdminDashboard.jsx

| | └─ CustomerDashboard.jsx

| | └─ ForgotPassword.jsx

| | └─ UserDashboard.jsx

| | └─ CampaignManagement.jsx

| └─ services

| | └─ Authservices.js

| └─ App.css

| └─ App.jsx

```
| └─ index.css
| └─ main.jsx
└─ tailwind.config.js
└─ package.json
└─ package-lock.json
```

Folder Structure Screenshot:

- To visualize the folder structure, use the tree command in your terminal (tree -a -I 'node_modules' to exclude node_modules) or capture a screenshot of your IDE's file explorer showing the above structure.

Feature-wise Component & API Flow

The application is organized into key features, each involving specific components and API interactions. Below is the flow for major features:

1. Authentication (Login/Forgot Password)

- **Components:**
 - Login.jsx: Renders the login page layout with logo and form.
 - LoginForm.jsx: Manages login form inputs, validation, and submission.
 - ForgotPassword.jsx: Handles password reset email requests.
 - AuthContext.jsx: Manages authentication state across the app.
- **API Flow:**
 - **Login:**
 - ▢ User submits credentials in LoginForm.jsx.
 - ▢ handleSubmit uses mock authentication (checks hardcoded credentials).
 - ▢ In a real implementation, calls loginUser from authservices.js to send POST request to /api/auth/login.
 - ▢ Stores token and user data in localStorage and updates AuthContext.
 - ▢ Redirects to role-specific dashboard (/super-admin-dashboard, /subadmin-dashboard, /user-dashboard, /customer-dashboard).

- **Forgot Password:**
 - User submits email in ForgotPassword.jsx.
 - Simulates API call (2-second delay) or calls forgotPassword from authservices.js to send POST to /api/auth/forgot-password.
 - Displays success or error message.
- **Flow Diagram:**
- User -> LoginForm.jsx -> authservices.js -> (/api/auth/login) -> AuthContext > Dashboard
- User -> ForgotPassword.jsx -> authservices.js -> (/api/auth/forgot-password) -> Success/Error UI

2. Dashboards (Super Admin, Sub Admin, User, Customer)

- **Components:**
 - Dashboard.jsx: Core dashboard with role-based metrics and charts.
 - SuperAdminDashboard.jsx: Wraps Dashboard.jsx with role="superadmin". ○
 - SubAdminDashboard.jsx: Wraps Dashboard.jsx with role="subadmin". ○
 - UserDashboard.jsx: Manages user data with filtering and actions. ○
 - CustomerDashboard.jsx: Manages customer data with filtering and actions.
 - Navbar.jsx: Provides navigation across dashboards.
- **API Flow:**
 - Uses mock data (superAdminMetrics, subAdminMetrics, initialUsers, initialCustomers).
- **Flow Diagram:**
- User -> App.jsx -> Routes -> Dashboard (SuperAdmin/SubAdmin) -> Fetch Metrics -> Render Charts/Cards
- User -> UserDashboard.jsx -> Filter Users -> Render Table/Cards
- User -> CustomerDashboard.jsx -> Filter Customers -> Render Cards

3. Navigation and Logout

- **Components:**
 - Navbar.jsx: Renders role-based navigation and logout button.

- AuthContext.jsx: Handles logout logic by clearing localStorage.
- **Flow Diagram:**
- User -> Navbar.jsx -> handleLogout -> AuthContext.logout -> Clear localStorage -> Redirect to /login

Component Descriptions

Below is a detailed explanation of each file's purpose and functionality:

1. Login.css

- **Purpose:** Defines styles for the login page, including animations and responsive design.
- **Functionality:**
 - fadeIn animation for login container entrance.
 - shake animation for error messages.
 - Input focus effects with blue shadow.
 - Button hover (translate) and active states.
- **Usage:** Applied to Login.jsx and LoginForm.jsx via className.

2. Login.jsx

- **Purpose:** Renders the login page layout with a logo, title, and LoginForm.
- **Functionality:**
 - Displays a gradient logo and centered title.
 - Renders LoginForm within a shadowed card.
 - Includes a footer with copyright text.
 - Uses Tailwind CSS for responsive styling.
- **Dependencies:** LoginForm.jsx, Login.css.

3. LoginForm.jsx

- **Purpose:** Manages the login form, user input, and authentication logic.
- **Functionality:**
 - Handles email, password, "Remember Me," and show/hide password state.
 - Validates email against hardcoded list (superadmin@example.com, etc.).
 - Checks credentials for Super Admin (SuperPass123), Sub Admin (SubPass123), User (user123), and Customer (customer123).

- Stores email in localStorage if "Remember Me" is checked. ○ Redirects to role-specific dashboards using useNavigate.
- Displays error messages and loading spinner.
- Uses icons (FaEnvelope, FaLock, FaEye, FaEyeSlash) for UI.
- **Dependencies:** react, react-router-dom, react-icons/fa.

4. AuthContext.jsx

- **Purpose:** Provides a context for authentication state management.
- **Functionality:**
 - Creates AuthContext and useAuth hook. ○ Manages user, isAuthenticated, and loading states. ○ Checks localStorage for authToken and userData on mount. ○ Provides login, logout, getToken, and updateUser methods.
 - Wraps app with AuthProvider to share context.
- **Dependencies:** react.

5. Dashboard.jsx

- **Purpose:** Renders role-specific dashboard content with metrics and charts.
- **Functionality:**
 - Displays superAdminMetrics (Total Users, Customers, Revenue, Campaigns, Active Sub Admins) or subAdminMetrics (Assigned Tasks, Reviewed Screenshots, Wallet Actions) based on role.
 - Uses Recharts for Super Admin charts (AreaChart for user growth, BarChart for campaign performance).
 - Uses Framer Motion for animated counters and card transitions.
- Includes Sub Admin quick action buttons (Screenshot Verification, Task Assignment).

6. Dependencies: react, recharts, framer-motion.

Navbar.jsx

- **Purpose:** Renders a responsive navigation bar with role-based branding.
- **Functionality:**

- Displays logo with role-specific initials (e.g., "SA" for admins).
- Shows role-specific title and color (purple-600 for Super Admin, green-600 for Sub Admin).
- Includes notification button (hidden on mobile) and user avatar.
- Provides logout button to clear localStorage and redirect to /login.
- **Dependencies:** react, react-router-dom.

7. SubAdminDashboard.jsx

- **Purpose:** Entry point for Sub Admin dashboard.
- **Functionality:**
 - Renders Navbar with role="subadmin". ○ Renders Dashboard with role="subadmin".
 - Sets gray background for the page.
- **Dependencies:** Navbar.jsx, Dashboard.jsx.

8. SuperAdminDashboard.jsx

- **Purpose:** Entry point for Super Admin dashboard.
- **Functionality:**
 - Renders Navbar with role="superadmin". ○ Renders Dashboard with role="superadmin".
 - Sets gray background for the page.
- **Dependencies:** Navbar.jsx, Dashboard.jsx.

9. CustomerDashboard.jsx

- **Purpose:** Manages customer data with filtering and actions.
- **Functionality:**
 - Displays mock customer data (initialCustomers) with name, email, plan, campaigns, wallet, and stats.
 - Supports filtering by name/email and plan (Bronze, Silver, Gold). ○ Renders expandable cards with action buttons (Approve Campaigns, Adjust Wallet, Change Plan, View Stats).

- Uses dynamic badge colors for plans (e.g., yellow-500 for Gold).
- **Dependencies:** react.

Campaign Management.jsx

- **Stats Table:** Likes, Shares, Views (platform-wise)
- **Actions:** Approve / Reject, Assign Tasks, Pause / Edit
- **UX Enhancements:** Progress bars (performance), Campaign thumbnails (quick glance)
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10. ForgotPassword.jsx

- **Purpose:** Handles password reset requests.
- **Functionality:**
 - Renders email input form with a simulated API call (2-second delay).
 - Displays success message with email confirmation or error message.
 - Provides "Try again" and "Back to Sign in" options.
 - Includes logo, title, and footer.
- **Dependencies:** react, react-router-dom, react-icons/fa.

11. UserDashboard.jsx

- **Purpose:** Manages user data with filtering and actions.
- **Functionality:**
 - Displays mock user data (initialUsers) with name, email, location, age, gender, referral, and wallet.
 - Supports filtering by search, location, age, gender, and referral.
 - Renders table (desktop) or cards (mobile) with action buttons (View Profile, Assign Task, Verify User, Ban User, Adjust Wallet).
 - Updates user state for verification, banning, and wallet adjustments.
- **Dependencies:** react, react-icons/fa.

12. Authservices.js

- **Purpose:** Provides API service functions for authentication.

- **Functionality:**
 - Defines loginUser to send POST to /api/auth/login.
 - Defines forgotPassword to send POST to /api/auth/forgot-password.
 - Uses environment-based API_URL (/api/auth for development).
 - Handles errors with meaningful messages.
- **Dependencies:** axios.

13. App.jsx

- **Purpose:** Configures client-side routing.
- **Functionality:**
 - Uses react-router-dom to define routes for /login, /super-admin-dashboard, /sub-admin-dashboard, /user-dashboard, /customer-dashboard, and /forgotpassword.
 - Renders components based on URL path.
- **Dependencies:** react-router-dom, all page components.

14. App.css

- **Purpose:** Placeholder for application-specific styles.
- **Functionality:** Not used in the provided code; can be used for custom styles outside index.css.
- **Dependencies:** None.

15. index.css

- **Purpose:** Defines global styles for the application.
- **Functionality:**
 - Imports Google Fonts (Inter) and Tailwind CSS. ○ Sets default font and background color (#f6f3f3).
 - Customizes input focus styles with blue ring.
- **Dependencies:** Tailwind CSS, Google Fonts.

16. main.jsx

- **Purpose:** Entry point for rendering the React application.

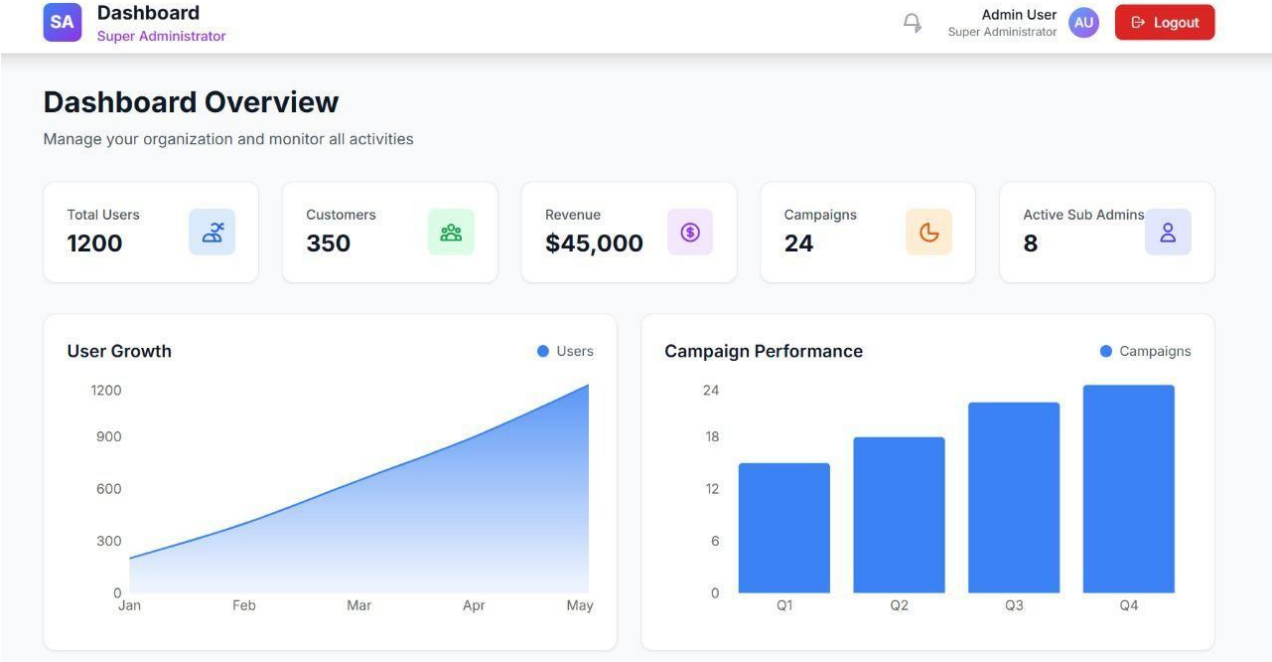
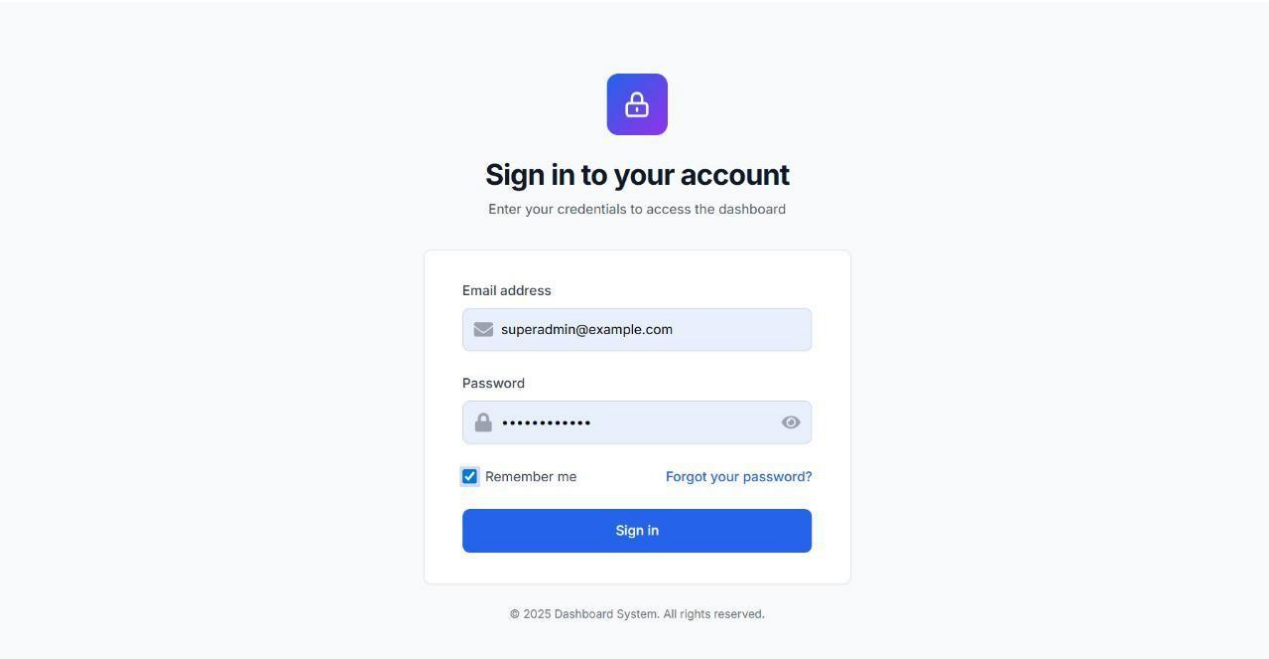
- **Functionality:**
 - Renders App.jsx into the DOM at #root.
 - Wraps App with AuthProvider for authentication context.

- **Dependencies:** react, react-dom, AuthContext.jsx, App.jsx.

17. tailwind.config.js

- **Purpose:** Configures Tailwind CSS.
- **Functionality:**
 - Specifies content files for Tailwind to scan (index.html, src/**/*.html).
 - Extends theme with custom colors (primary, secondary, accent, background) and font family (Inter).
- **Dependencies:** Tailwind CSS.
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Screenshots





Sign in to your account

Enter your credentials to access the dashboard

Email address

 customer@gmail.com

Password

☒ Remember me

[Forgot your password?](#)

Sign in

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Customer Dashboard

Search by name or email...

All Plans

John Doe

john@example.com

Gold

Campaigns: 5

Wallet: \$1000

Approve Campaigns

Adjust Wallet

Change Plan

View Stats

Jane Smith

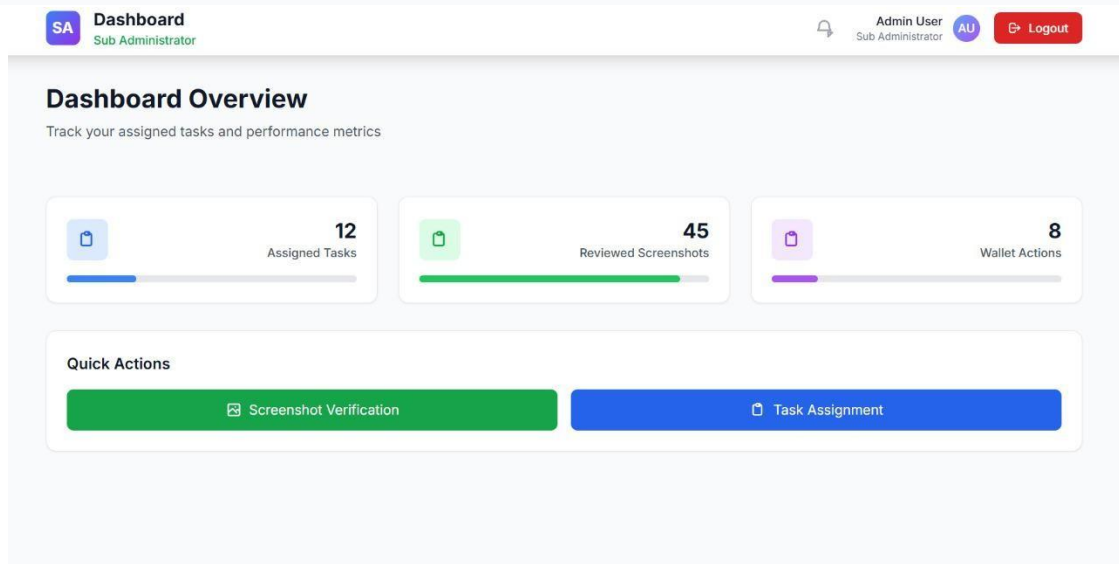
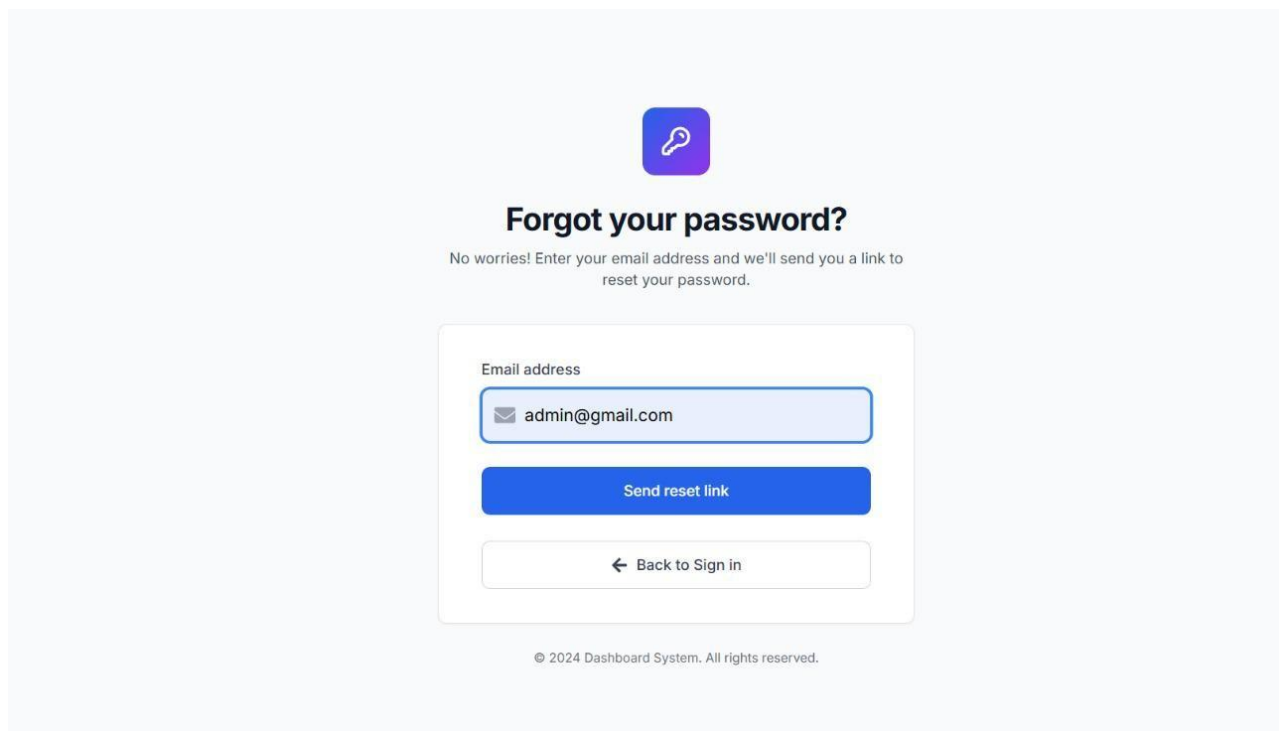
jane@example.com

Silver

Bob Johnson

bob@example.com

Bronze



How to Run the Project

Follow these steps to set up and run the project locally.

Steps

1. **Clone the Repository** (if applicable):
2. `git clone <repository-url>`
3. `cd login-screen1`
4. **Install Frontend Dependencies:**
5. `npm install`

Installs dependencies: react, react-router-dom, recharts, framer-motion, react-icons, axios, tailwindcss.

- 8. `npm run dev` ○ Starts the Vite development server at `http://localhost:5173`.

- If using Create React App, use `npm start` (port `http://localhost:3000`).

7. Access the Application:

- Open `http://localhost:5173` in a browser.
- Use credentials:

	□	Super Admin: superadmin@example.com /
SuperPass123		

	□	Sub Admin: subadmin@example.com /
SubPass123		

	□	User: user@gmail.com / user123
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	□	Customer: customer@gmail.com /
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customer123		
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Conclusion

Challenges Faced

- **Mock Data:** Reliance on hardcoded data (`initialUsers`, `initialCustomers`, mock credentials) limits dynamic functionality.
- **Authentication:** `LoginForm.jsx` uses mock authentication, requiring integration with `authservices.js` for real API calls.
- **State Management:** `AuthContext` is sufficient for small apps for complex state handling.